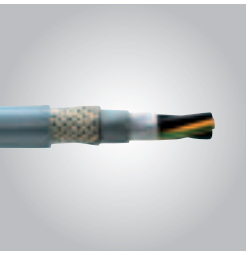
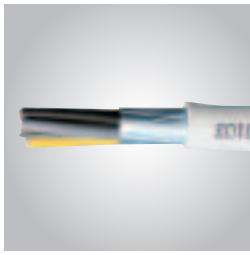
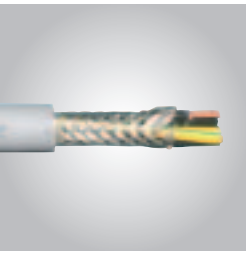
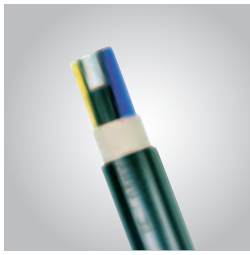
faber kabel









cabel catalogue

Welcome!

Dear Customer,

Our objective is to fulfil our customers‘ demands to their utmost satisfaction at all times. This requires a perfect interplay of sales processes, a powerful IT system and the latest technology to provide maximum flexibility. It means that we can solve even the most complex of tasks – and it is our employees who play the most important role in doing so.

Flat hierarchies, a high level of training, and the freedom to act on their own initiative enable our employees to take responsibility, and at the same time to enjoy job satisfaction. You can get to know our employees and the jobs they perform by visiting us in the Internet, where information on all of our contact partners is available, complete with photos. This ensures that you always know who it is that you are dealing with.

The independence that comes from being an owner-managed company, coupled with our solid financial base, enables us to draw up a long development strategy, with the goal of creating on-going relationships with customers and suppliers. This leads to synergies which benefit all sides.

The KLAUS FABER FOUNDATION is a guarantee that this will remain so, irrespective of any future developments. The institution is responsible for the short to medium term representation of the company‘s interests, as well as our involvement in the environment and society in general.

We hope you enjoy reading our new catalogue!

Yours,
Klaus Faber











Rapid action for trade and export.

If you have any questions on trade or export matters, please contact Joachim Krimmel or Vojislav Jovanovic by telephone at +49 (0)681/9711-200 or -246.

FABER KABEL, Your partner at home and abroad.

FABER KABEL has always been a strong partner for trading companies. For us, the rapid processing of enquiries and efficient issuing of offers are simply a matter of course. We ship cables and conductors throughout Germany within a short time frame, while worldwide shipments take place every week on fixed days, to ensure that you always receive the goods you order within one week.

In addition to our speed and flexibility, we are also characterised by our employees‘ high level of advisory competence. Whether you wish to know more about product approvals or standards or you have some other technical problem, our employees are happy to help, to enable us to jointly locate the optimum solution for you.

A special service that we provide to our trading partners at home and abroad comprises on-site presentations and seminars. These give both you and your customers a chance to satisfy yourselves of our products‘ quality, and to familiarise yourselves with their special features, backed up by expert guidance.

Solutions for all requirements.

Suppliers of solutions to meet all requirements: Gunther Gellert and Martin Leidner are there to advise you at +49 (0)681/9711-156 and -232.

Consultation for industrial and plant construction projects.

„The more complex, the better“ is our motto regarding large-scale project solutions in industry or plant construction. Excellent familiarity with German and international standards, certifications and approvals means that our employees are able to provide assistance in supplying the cables you need to suit an extremely wide range of plants.

Naturally, we place the focus not only on technical parameters, but our enquiry processing and analysis procedures also take into account financial and logistical aspects. This means that with FABER KABEL, you can always be sure of finding the best solution. We coordinate the manufacture of standard warehouse products and special production runs, right down to the last detail. Error-free type determination is applied right from the start, to ensure that a precisely configured, project-specific product selection is always available by the agreed delivery date. Should you require special-purpose cables, we have a worldwide network to ensure that in such cases, we are still able to fulfil your needs in the shortest possible time. You can always be sure that you will obtain everything you need, from standard cables to special additional components and certifications, from a reliable partner, at first-class terms.

Everything direct from stock.

One of Europe‘s largest cable warehouses.

Two warehouses, around 400 different types of cable and almost 140,000m² of warehouse space. These figures show clearly that FABER KABEL is the perfect supplier to satisfy your cable needs. Over 4,000 articles are stored in more than 30,000 high-rack storage locations. Virtually all orders can be called up directly from the warehouse. More than 100 employees are active on your behalf throughout our logistics centres every day, loading a total of 350 tonnes of products for our customers.

Active on your behalf at all times: Adolf Götz and Wolfgang Ebert are responsible for warehouse and logistics.

Flexible order handling to satisfy your requirements.

Logistics that cannot be bettered.

Rapid order processing and flexible handling are two major strengths that characterise our business. Our IT solutions were developed in-house, for maximum efficiency in conducting our transactions for you.

If you need your products urgently, we can arrange for you to collect them yourselves. We place your pre-assembled products in separate interim stores, where they can be called up any time they may be required. A top service guaranteeing smooth procedures.

Highest quality for simple handling.

FACAB® sets the tone.

For more than 20 years, the FACAB® trademark has been guaranteeing high and consistent product quality. Over and above the technical specifications required by DIN and VDE standards, our trademark stands for the excellent handling and use characteristics of each of our products.

We supply internationally applicable test protocols for industry and trade – and keep technical drawings, data and plans available.

Tailored for you.

Additional individual configuration to customer specification.

Cables with diameters of up to 85mm and a maximum cross-section of 120mm² are machine produced and fitted with standard cable lugs, core-end sleeves or plug connectors for nominal currents of up to 125A. The length and type of pre-assembled cables can be individually specified. Cores and cables can also be given customer-specified labelling or markings.

If you have any other pre-assembly requirements, please contact Willi Dorstewitz, who will be happy to help you.

Notes:

Content

NYY-J

standard	VDE 0276-603
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
test voltage	4 kV
core identification	colours acc. VDE 0293 (HD308)
protective conductor	yes
conductor material	bare copper
conductor construction	class 1, from 25 sqmm class 2
insulation	PVC DIV 4
maximum temperature at conductor	70 °C
sheathing material	PVC DMV 5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	-5 - +70 °C

Application:
For fixed installation indoors, outdoors, in ground and in water.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011840	01X4	bk	38	9,1	110	dr.
011742	01X6	bk	58	9,5	130	dr.
010133	01X10	bk	96	10,2	180	dr.
010116	01X16	bk	154	11,2	240	dr.
010117	01X25	bk	240	12,2	350	dr.
010118	01X35	bk	336	13,2	460	dr.
010119	01X50	bk	480	15,4	600	dr.
010120	01X70	bk	672	16,4	800	dr.
010121	01X95	bk	912	18,5	1100	dr.
010147	01X120	bk	1152	20,5	1350	dr.
010148	01X150	bk	1440	22,5	1650	dr.
010506	01X185	bk	1776	24,6	2000	dr.
010507	01X240	bk	2304	27,6	2600	dr.
011225	01X300	bk	2880	29,7	3200	dr.
012110	01X400	bk	3840	33,8	4100	dr.
010003	03X1,5	bk	43	11,2	190	dr., c. 100, c. 50
010012	03X2,5	bk	72	12,2	240	dr., c. 100, c. 50
010020	03X4	bk	115	14,2	330	dr., c. 100, c. 50
010023	03X6	bk	173	15,2	420	dr.
010004	03X10	bk	288	17,3	580	dr.
010009	03X16	bk	461	19,3	810	dr.
010015	03X25	bk	720	24,5	1300	dr.
010018	03X35	bk	1008	22,6	1400	dr.
010021	03X50	bk	1440	25,6	1800	dr.
010024	03X70	bk	2016	29,7	2400	dr.
010026	03X95	bk	2736	33,8	3300	dr.
010005	03X120	bk	3456	35,8	4000	dr.
010007	03X150	bk	4320	39,8	4900	dr.
010010	03X185	bk	5328	46	6500	dr.
010013	03X240	bk	6912	51	8300	dr.
010016	03X25/16	bk	874	24,5	1500	dr.
010019	03X35/16	bk	1162	24,5	1700	dr.
010022	03X50/25	bk	1680	28,7	2300	dr.
010025	03X70/35	bk	2352	31,7	2800	dr.
010027	03X95/50	bk	3216	37,8	3800	dr.
010006	03X120/70	bk	4128	41	4700	dr.
010008	03X150/70	bk	4992	45	5600	dr.
010011	03X185/95	bk	6240	50	7400	dr.
010014	03X240/120	bk	8064	57	9600	dr.
010017	03X300/150	bk	10080	64	11200	dr.
010028	04X1,5	bk	58	12,2	220	dr., c. 100, c. 50
010034	04X2,5	bk	96	13,2	290	dr., c. 100, c. 50
010038	04X4	bk	154	15,3	400	dr., c. 50

NYY-J

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
010040	04X6	bk	230	16,3	510	dr., c. 100, c. 50
010029	04X10	bk	384	18,3	720	dr., c. 50
010032	04X16	bk	614	21,4	1050	dr., c. 50
011018	04X16/RM	bk	614	21,4	1050	dr.
010036	04X25	bk	960	25,5	1600	dr.
010037	04X35	bk	1344	27,7	1750	dr.
010039	04X50	bk	1920	29,8	2300	dr.
010041	04X70	bk	2688	33,8	3100	dr.
010042	04X95	bk	3648	38,9	4200	dr.
010030	04X120	bk	4608	42	5200	dr.
010031	04X150	bk	5760	47	6400	dr.
010033	04X185	bk	7104	52	8050	dr.
010035	04X240	bk	9216	58	11000	dr.
010043	05X1,5	bk	72	13,2	270	dr., c. 100, c. 50
010046	05X2,5	bk	120	14,2	350	dr., c. 100, c. 50
010049	05X4	bk	192	16,3	480	dr., c. 100, c. 50
010050	05X6	bk	288	18,3	610	dr., c. 50
010044	05X10	bk	480	20,4	880	dr., c. 50
010045	05X16	bk	768	22,4	1250	dr., c. 50
010047	05X25	bk	1200	27,5	1950	dr.
010048	05X35	bk	1680	33,6	2400	dr.
011028	05X50	bk	2400	40	3500	dr.
012086	05X70	bk	3360	42,4	4450	dr.
012087	05X95	bk	4560	50	6134	dr.
012088	05X120	bk	5760	51,3	7483	dr.

NYY-O

Application:
For fixed installation indoors, outdoors, in ground and in water.

standard	VDE 0276-603
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
test voltage	4 kV
protective conductor	no
conductor material	bare copper
conductor construction	class 1, from 25 sqmm class 2
insulation	PVC DIV 4
maximum temperature at conductor	70 °C
sheathing material	PVC DMV 5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	-5 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011512	01X1,5	bk	14,4	7	63	dr.
012625	01X2,5	bk	24	7,9	105	dr.
010085	01X4	bk	38	9,1	110	dr.
010087	01X6	bk	58	9,5	130	dr.
010076	01X10	bk	96	10,2	180	dr.
010079	01X16	bk	154	11,2	240	dr.
010082	01X25	bk	240	12,2	350	dr.
012006	01X25	rd	240	12,2	350	dr.
012007	01X25	gn	240	12,2	350	dr.

NYY-O

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
010084	01X35	bk	336	13,2	460	dr.
010086	01X50	bk	480	15,4	600	dr.
010088	01X70	bk	672	16,4	800	dr.
010089	01X95	bk	912	18,5	1100	dr.
010077	01X120	bk	1152	20,5	1350	dr.
010078	01X150	bk	1440	22,5	1650	dr.
010080	01X185	bk	1776	24,6	2000	dr.
010081	01X240	bk	2304	27,6	2600	dr.
010083	01X300	bk	2880	29,7	3200	dr.
010115	01X400	bk	3840	33,8	4100	dr.
010141	01X500	bk	4800	38	5200	dr.
010283	01X630	bk	6048	42,5	6650	dr.
010090	02X1,5	bk	29	11	170	dr.
010093	02X2,5	bk	48	12	210	dr.
010095	02X4	bk	77	14	290	dr.
010096	02X6	bk	115	15,2	360	dr.
010091	02X10	bk	192	16,6	490	dr.
010092	02X16	bk	307	19	660	dr.
010140	02X25	bk	480	23	940	dr.
011554	03X1,5	bk	43	11,2	190	dr., c. 100
011033	03X2,5	bk	72	12,2	240	dr.
010480	03X4	bk	115	14,2	330	dr.
010508	03X6	bk	173	15,2	420	dr.
010483	03X10	bk	288	17,3	580	dr.
010484	03X25	bk	720	24,5	1300	dr.
011032	03X35	bk	1008	22,6	1350	dr.
010150	03X50	bk	1440	25,6	1800	dr.
010149	03X95	bk	2736	33,8	3300	dr.
010510	03X150	bk	4320	39,8	4900	dr.
011552	03X185	bk	5328	46	6500	dr.
011553	04X1,5	bk	58	12,2	220	dr.
011849	04X2,5	bk	96	13,2	290	dr.
010509	04X4	bk	154	15,3	400	dr.
010109	04X6	bk	230	16,3	510	dr.
010102	04X10	bk	384	18,3	720	dr.
010105	04X16	bk	614	21,4	1050	dr.
010106	04X25	bk	960	25,5	1600	dr.
010107	04X35	bk	1344	27,7	1750	dr.
010108	04X50	bk	1920	29,8	2300	dr.
010110	04X70	bk	2688	33,8	3100	dr.
010111	04X95	bk	3648	38,9	4200	dr.
010103	04X120	bk	4608	42	5200	dr.
010104	04X150	bk	5760	47	6400	dr.
011010	04X185	bk	7104	52	8050	dr.
011531	04X240	bk	9216	58	11000	dr.

NYY-JZ

Application:
For fixed installation indoors, outdoors, in ground and in water.

standard	VDE 0276-627
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
test voltage	4 kV
core identification	gn-ye + numbers
protective conductor	yes
conductor material	bare copper
insulation	PVC DIV 4
sheathing material	PVC DMV 5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
maximum temperature at conductor	70 °C
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	-5 - +70 °C
conductor construction	solid, class 1

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
010052	07X1,5	bk	101	16	300	dr., c. 100
010053	07X2,5	bk	168	17	420	dr.
010054	07X4	bk	269	19	630	dr.
010918	07X6	bk	403	21	840	dr.
010930	07X10	bk	672	23	1150	dr.
012060	07X25	bk	1680	30,9	2403	dr.
012061	07X35	bk	2352	34,7	3191	dr.
012062	07X50	bk	3360	40,2	4287	dr.
012003	08X1,5	bk	115	14,2	334	dr.
010055	10X1,5	bk	144	19	360	dr.
010056	10X2,5	bk	240	20	500	dr.
011216	10X4	bk	384	23	930	dr.
010057	12X1,5	bk	173	19	400	dr.
010058	12X2,5	bk	288	21	560	dr.
010059	14X1,5	bk	202	20	450	dr.
010060	14X2,5	bk	336	21	630	dr.
011530	14X4	bk	538	25	1000	dr.
012197	14X6	bk	806	25,9	1354	dr.
010061	16X1,5	bk	230	21	500	dr.
010062	16X2,5	bk	384	22	710	dr.
010063	19X1,5	bk	274	22	560	dr.
010064	19X2,5	bk	456	23	830	dr.
011759	19X4	bk	730	28	1354	dr.
010065	21X1,5	bk	302	23	620	dr.
010066	21X2,5	bk	504	25	910	dr.
010067	24X1,5	bk	346	25	700	dr.
010068	24X2,5	bk	576	27	1050	dr.
012256	24X4	bk	922	30	1636	dr.
010069	30X1,5	bk	432	26	810	dr.
010070	30X2,5	bk	720	28	1250	dr.
012257	30X4	bk	1152	32	1962	dr.
011511	31X1,5	bk	446		834	dr.
010071	40X1,5	bk	576	29	1050	dr.
010072	40X2,5	bk	960	31	1650	dr.
010073	52X1,5	bk	749	32	1400	dr.
010074	52X2,5	bk	1248	35	2150	dr.
010075	61X1,5	bk	878	34	1650	dr.

NYY-OZ

standard	VDE 0276-627
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
test voltage	4 kV
core identification	numbers
protective conductor	no
conductor material	bare copper
insulation	PVC DIV 4
sheathing material	PVC DMV 5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
maximum temperature at conductor	70 °C
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	-5 - +70 °C
conductor construction	solid, class 1

Application:
For fixed installation indoors, outdoors, in ground and in water.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011861	05X1,5	bk	72	13,2	270	dr.
012095	05X2,5	bk	120	14,2	350	dr.
010490	07X1,5	bk	101	16	300	dr.
011687	07X2,5	bk	168	17	420	dr.
011688	07X4	bk	269	19	630	dr.
012089	08X1,5	bk	115	14,2	334	dr.
012096	08X2,5	bk	192	17,4	480	dr.
012090	10X1,5	bk	144	19	360	dr.
011778	10X2,5	bk	240	20	500	dr.
012103	10X4	bk	384	23,4	930	dr.
011034	12X1,5	bk	173	19	400	dr.
012097	12X2,5	bk	288	21	560	dr.
011548	12X4	bk	461	24,1	1100	dr.
012091	14X1,5	bk	202	20	450	dr.
011779	14X2,5	bk	336	21	630	dr.
012104	14X4	bk	538	25	1000	dr.
011862	16X1,5	bk	230	21	500	dr.
012098	16X2,5	bk	384	22	710	dr.
012092	19X1,5	bk	274	22	560	dr.
012099	19X2,5	bk	456	23	830	dr.
012105	19X4	bk	730	27,7	1354	dr.
012093	21X1,5	bk	302	23	620	dr.
012100	21X2,5	bk	504	25	910	dr.
011863	24X1,5	bk	346	25	700	dr.
011780	24X2,5	bk	576	27	1050	dr.
011035	30X1,5	bk	432	26	810	dr.
012101	30X2,5	bk	720	28	1250	dr.
012094	40X1,5	bk	576	29	1050	dr.
012102	40X2,5	bk	960	31	1650	dr.

NYCY

Application:
For fixed installation indoors, outdoors, in ground and in water.

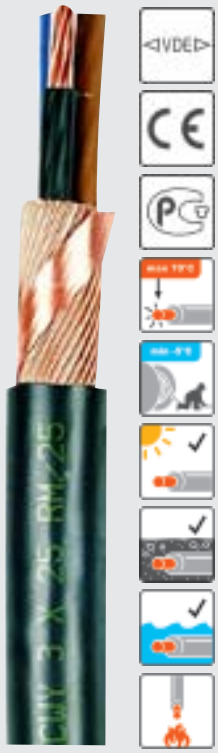
standard	VDE 0276-603
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
core identification	colored acc. to HD 308; more than 5 cores: numbers
test voltage	4 kV
protective conductor	no
conductor material	bare copper
insulation	PVC DIV 4
sheathing material	PVC DMV 5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	70 °C
maximum temperature at conductor	70 °C
temperature, moved/during installation	-5 - +70 °C
conductor construction	class 1, from 25 sqmm class 2

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
080030	02X1,5/1,5	bk	52	13	200	dr.
080031	02X2,5/2,5	bk	80	13,6	260	dr.
080032	02X4/4	bk	123	15,4	350	dr.
080033	02X6/6	bk	182	16,9	430	dr.
080035	03X1,5/1,5	bk	66	13,2	220	dr.
080037	03X2,5/2,5	bk	104	14,2	280	dr.
080038	03X4/4	bk	161	16,3	390	dr.
080039	03X6/6	bk	240	17,3	500	dr.
080040	04X1,5/1,5	bk	81	14,2	250	dr.
080041	04X2,5/2,5	bk	128	15,3	340	dr.
080042	04X4/4	bk	200	17,3	460	dr.
080043	04X6/6	bk	297	18,4	580	dr.
080044	05X1,5/1,5	bk	95	15	330	dr.
080076	05X2,5/2,5	bk	152	16	400	dr.
080083	05X4/4	bk	238	19	550	dr.
080084	05X6/6	bk	355	21	700	dr.
080045	07X1,5/2,5	bk	133	15,3	350	dr.
080046	07X2,5/2,5	bk	200	17,4	450	dr.
080047	07X4/4	bk	315	20	600	dr.
080085	07X6/6	bk	470	22,5	790	dr.
080098	08X1,5/2,5	bk	147	17,5	450	dr.
080207	08X2,5/4	bk	238	19	530	dr.
080091	08X4/4	bk	360	20	770	dr.
080208	08X4/6	bk	374	21	751	dr.
080048	10X1,5/2,5	bk	176	18,4	410	dr.
080049	10X2,5/4	bk	286	20,4	600	dr.
080086	10X4/6	bk	451	23,5	900	dr.
080050	12X1,5/2,5	bk	205	19,4	470	dr.
080051	12X2,5/4	bk	334	20,5	660	dr.
080069	12X4/6	bk	528	24,5	1060	dr.
080052	14X1,5/2,5	bk	234	20,4	520	dr.
080053	14X2,5/6	bk	403	21,5	750	dr.
080073	16X1,5/4	bk	276	20	620	dr.
080054	16X2,5/6	bk	451	22,5	800	dr.
080055	19X1,5/4	bk	320	22,5	660	dr.
080056	19X2,5/6	bk	523	23,5	940	dr.
080057	21X1,5/6	bk	369	23	790	dr.
080058	24X1,5/6	bk	413	25,5	850	dr.
080130	24X1,5/10	bk	465	25	943	dr.
080059	24X2,5/10	bk	696	27,6	1150	dr.
080068	30X1,5/6	bk	499	26,5	1020	dr.
080087	30X2,5/10	bk	840	29,5	1600	dr.

NYCY

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
080074	40X1,5/10	bk	696	30	1280	dr.
080075	40X2,5/10	bk	1080	33	1660	dr.
080072	52X1,5/10	bk	869	32	1600	dr.
080088	52X2,5/10	bk	1368	35	2000	dr.
080089	61X1,5/10	bk	998	33	2000	dr.
080090	61X2,5/10	bk	1584	36	2280	dr.

NYCWY



standard	VDE 0276-603
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
test voltage	4 kV
core identification	colours acc. VDE 0293 (HD308)
protective conductor	no
conductor material	bare copper
insulation	PVC DIV 4
maximum temperature at conductor	70 °C
sheathing material	PVC DMV 5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	-5 - +70 °C
conductor construction	class 1, from 25 sqmm class 2

Application:
For fixed installation indoors, outdoors, in ground and in water.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
080001	02X10/10	bk	312	19,4	610	dr.
080002	02X16/16	bk	489	20,4	840	dr.
080003	03X10/10	bk	408	19,4	750	dr.
080008	03X16/16	bk	643	21,4	1050	dr.
080011	03X25/25	bk	1003	25,5	1600	dr.
080013	03X35/35	bk	1402	25,7	1850	dr.
080015	03X50/50	bk	2000	28,7	2400	dr.
080017	03X70/70	bk	2796	33,8	3300	dr.
080019	03X95/95	bk	3791	37,8	4500	dr.
080004	03X120/120	bk	4786	41,8	5500	dr.
080006	03X150/150	bk	5970	46	6750	dr.

NYCWY

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
080010	03X25/16	bk	902	25,5	1600	dr.
080012	03X35/16	bk	1190	27,6	1700	dr.
080014	03X50/25	bk	1723	28,7	2300	dr.
080016	03X70/35	bk	2410	32,8	2900	dr.
080018	03X95/50	bk	3296	37,8	4000	dr.
080005	03X120/70	bk	4236	40,8	5000	dr.
080007	03X150/70	bk	5100	45	6000	dr.
080009	03X185/95	bk	6383	50	7500	dr.
080061	03X240/120	bk	8242	57	10000	dr.
080020	04X10/10	bk	504	20,4	870	dr.
080023	04X16/16	bk	796	23,4	1250	dr.
080099	04X16RM/16	bk	796	23,4	1250	dr.
080025	04X25/16	bk	1142	27,6	1800	dr.
080026	04X35/16	bk	1526	28,6	2050	dr.
080027	04X50/25	bk	2203	32,8	2700	dr.
080028	04X70/35	bk	3082	36,8	3750	dr.
080029	04X95/50	bk	4208	43,9	5000	dr.
080021	04X120/70	bk	5388	47	6300	dr.
080022	04X150/70	bk	6540	51	7600	dr.
080024	04X185/95	bk	8159	56	9300	dr.
080062	04X240/120	bk	10546	63	11600	dr.

NAYY-J

Application:
For fixed installation indoors, outdoors, in ground and in water.

standard	VDE 0276-603
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	4 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
core identification	colours acc. VDE 0293 (HD308)
protective conductor	yes
conductor material	aluminium
insulation	PVC DIV 4
sheathing material	PVC DMV 5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
maximum temperature at conductor	70 °C
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	-5 - +70 °C

p/n	type	colour	AL kg/km	D_A mm	weight ca. kg/km	packaging
090010	04X16	bk	186	24	750	dr.
090006	04X25	bk	290	25	950	dr.
090007	04X35	bk	406	28,1	1100	dr.
090001	04X50	bk	580	29,5	1200	dr.
090002	04X70	bk	812	35	1600	dr.
090008	04X95	bk	1102	39	2100	dr.
090003	04X120	bk	1392	43	2400	dr.
090004	04X150	bk	1740	46	3000	dr.
090005	04X185	bk	2146	51	3700	dr.
090009	04X240	bk	2784	56	5000	dr.
090022	04X240SM	bk	2784	58	5300	dr.
090067	05X10	bk	145	19,3	585	dr.

NAYY-J

p/n	type	colour	AL kg/km	D_A mm	weight ca. kg/km	packaging
090068	05X16	bk	232	21,8	938	dr.
090069	05X25	bk	362,5	27,1	1188	dr.
090070	05X35	bk	507,5	30,2	1375	dr.

NAYY-O

standard	VDE 0276-603
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	4 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
core identification	colours acc. VDE 0293 (HD308)
protective conductor	no
conductor material	aluminium
insulation	PVC DIV 4
sheathing material	PVC DMV 5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
maximum temperature at conductor	70 °C
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	-5 - +70 °C

Application:
For fixed installation indoors, outdoors, in ground and in water.

p/n	type	colour	AL kg/km	D_A mm	weight ca. kg/km	packaging
090036	01X50	bk	145	15	298	dr.
090037	01X70	bk	203	17	383	dr.
090038	01X95	bk	275	19	490	dr.
090039	01X120	bk	348	20	575	dr.
090040	01X150	bk	435	22	695	dr.
090041	01X185	bk	536	25	845	dr.
090035	01X240	bk	696	28	1100	dr.
090027	01X300	bk	870	30	1379	dr.
090042	01X400	bk	1160	34	1615	dr.
090043	01X500	bk	1450	37	2015	dr.
090034	01X630	bk	1827	43	2472	dr.
090044	04X16	bk	186	24	750	dr.
090045	04X25	bk	290	25	950	dr.

NAYY-O

p/n	type	colour	AL kg/km	D_A mm	weight ca. kg/km	packaging
090046	04X35	bk	406	28	1100	dr.
090047	04X50	bk	580	30	1200	dr.
090048	04X70	bk	812	35	1600	dr.
090049	04X95	bk	1102	39	2100	dr.
090050	04X120	bk	1392	43	2400	dr.
090051	04X150	bk	1740	46	3000	dr.
090052	04X185	bk	2146	51	3000	dr.
090053	04X240	bk	2784	56	3000	dr.

(N)YYök-J

Application:
Energy distribution cable. For fixed installation inside of buildings, for direct burial in earth, in water as well as in concrete, designed for power supply and control of oil and fuel pumps. The resistance against oil and fuel is proofed by BAM-test report VI. 34/10389/96 and tests acc. to VDE 0472 p. 803, Test B.

core identification	colours acc. VDE 0293 (HD308)
protective conductor	yes
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	4 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
conductor material	bare copper
insulation	PVC YI4
sheathing material	PVC YM3
flame retardant	VDE 0482-332-1-2/IEC 60332-1
maximum temperature at conductor	70 °C
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	-5 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011125	03X1,5	bk	43	11,3	190	dr.
011126	05X1,5	bk	72	13,3	270	dr.
011127	07X1,5	bk	101	14,3	300	dr.

(N)2XY-J

standard	IEC 60502
core identification	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
test voltage	4 kV
conductor material	bare copper
insulation	XLPE DIX3
maximum temperature at conductor	90 °C
sheathing material	PVC ST2, UV-resistant
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
bending radius, fixed installation	15 x D_A
temperature, moved/ during installation	-5 - +70 °C
max. operating temperature, fixed	-35 + 70 °C

Application:
For fixed installation indoors, outdoors, in ground and in water.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
012349	01X1,5	bk	14,4	6,4	53	dr.
012350	01X2,5	bk	24	6,8	66	dr.
012351	01X4	bk	38,4	7,3	85	dr.
012352	01X6	bk	58	7,8	107	dr.
012353	01X10	bk	96	9,1	159	dr.
012354	01X16	bk	154	10,1	222	dr.
012355	01X25	bk	240	11,8	328	dr.
012356	01X35	bk	336	13,1	428	dr.
012357	01X50	bk	480	14,5	562	dr.
012358	01X70	bk	672	16,5	779	dr.
012359	01X95	bk	912	18,4	1040	dr.
012360	01X120	bk	1152	20,2	1296	dr.
012361	01X150	bk	1440	22,2	1579	dr.
012362	01X185	bk	1776	24,8	1981	dr.
012363	01X240	bk	2304	27,7	2560	dr.
012364	01X300	bk	2880	29,9	3142	dr.
012365	01X400	bk	3840	33,5	4021	dr.
012366	03X1,5	bk	43,2	11,3	177	dr.
012367	03X2,5	bk	72	12,1	223	dr.
012368	03X4	bk	115,2	13,1	291	dr.
012369	03X6	bk	173	14,1	370	dr.
012370	03X10	bk	288	16,9	562	dr.
012371	03X16	bk	461	19,2	790	dr.
012373	03X25	bk	720	23,7	1234	dr.
012375	03X35	bk	1008	26,6	1620	dr.
012377	03X50	bk	1440	27,1	1800	dr.
012379	03X70	bk	2016	31,2	2400	dr.
012381	03X95	bk	2736	34,5	3300	dr.
012383	03X120	bk	3456	37,5	4000	dr.
012385	03X150	bk	4320	42,6	4900	dr.
012387	03X185	bk	5328	46,8	6500	dr.
012389	03X240	bk	6912	52,1	8300	dr.
012372	03X16/10	bk	557		1030	dr.
012374	03X25/16	bk	874	23,1	1500	dr.
012376	03X35/16	bk	1162	26,2	1700	dr.
012378	03X50/25	bk	1680	30,9	2300	dr.
012380	03X70/35	bk	2352	33,2	2800	dr.
012382	03X95/50	bk	3216	38,1	3800	dr.
012384	03X120/70	bk	4128	42,3	4700	dr.
012386	03X150/70	bk	4992	46,8	5600	dr.
012388	03X185/95	bk	6240	51,9	7400	dr.

(N)2XY-J

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
012390	03X240/120	bk	8064	59,6	9600	dr.
012391	03X300/150	bk	10080	66,7	11200	dr.
012392	04X1,5	bk	58	11,8	202	dr.
012393	04X2,5	bk	96	12,8	258	dr.
012394	04X4	bk	154	14,1	343	dr.
012395	04X6	bk	230,4	15,2	442	dr.
012396	04X10	bk	384	18,4	678	dr.
012397	04X16	bk	614,4	21,7	1013	dr.
012398	04X25	bk	960	26,2	1530	dr.
012399	04X35	bk	1344	27,4	1990	dr.
012400	04X50	bk	1920	29,1	2071	dr.
012401	04X70	bk	2688	31,1	2908	dr.
012402	04X95	bk	3648	35,1	3958	dr.
012403	04X120	bk	4608	38,8	4959	dr.
012404	04X150	bk	5760	42,5	6061	dr.
012405	04X185	bk	7104	47,5	7632	dr.
012406	04X240	bk	9216	52,6	9908	dr.
012408	05X1,5	bk	72	13,1	270	dr.
012409	05X2,5	bk	120	14,2	350	dr.
012410	05X4	bk	192	15,1	480	dr.
012411	05X6	bk	288	17,6	610	dr.
012412	05X10	bk	480	19,7	880	dr.
012413	05X16	bk	768	22,1	1250	dr.
012414	05X25	bk	1200	27,2	1950	dr.
012415	05X35	bk	1680	29,9	2400	dr.
012416	05X50	bk	2400		3500	dr.
012417	05X70	bk	3360	40,3	4450	dr.
012418	05X95	bk	4560	45,7	6134	dr.
012419	05X120	bk	5760	50,9	7483	dr.
012420	07X1,5	bk	101	14,1	300	dr.
012421	07X2,5	bk	168	15,2	420	dr.
012422	07X4	bk	269	16,7	630	dr.
012423	07X6	bk	403,2	18,9	840	dr.
012424	07X10	bk	672		1150	dr.
012425	07X25	bk	1680		2403	dr.
012426	07X35	bk	2352		3191	dr.
012427	07X50	bk	3360		4287	dr.
012428	08X1,5	bk	115,2		334	dr.
012429	10X1,5	bk	144	17,1	360	dr.
012430	10X2,5	bk	240	18,5	500	dr.
012431	10X4	bk	384		930	dr.
012432	12X1,5	bk	173	17,5	400	dr.
012433	12X2,5	bk	288	18,9	560	dr.
012434	14X1,5	bk	202	18,1	450	dr.
012435	14X2,5	bk	336	19,9	630	dr.
012436	14X4	bk	538		1000	dr.
012437	14X6	bk	806,4		1354	dr.
012438	16X1,5	bk	230,4	19,2	500	dr.
012439	16X2,5	bk	384	20,5	710	dr.
012440	19X1,5	bk	274	19,5	560	dr.
012441	19X2,5	bk	456	21,6	830	dr.
012442	19X4	bk	730		1354	dr.
012443	21X1,5	bk	302,4	21,1	620	dr.
012444	21X2,5	bk	504	23,2	910	dr.
012445	24X1,5	bk	346	22,5	700	dr.
012446	24X2,5	bk	576	25,4	1050	dr.
012447	30X1,5	bk	432	24,1	810	dr.
012448	30X2,5	bk	720	26,9	1250	dr.
012449	31X1,5	bk	446,4		834	dr.
012450	40X1,5	bk	576	27,1	1050	dr.
012451	40X2,5	bk	960	30,2	1650	dr.
012452	52X1,5	bk	749	30,3	1400	dr.
012453	52X2,5	bk	1248	34,5	2150	dr.
012454	61X1,5	bk	878,4	32,3	1650	dr.

(N)2XY-O

standard	IEC 60502
core identification	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
test voltage	4 kV
conductor material	bare copper
insulation	XLPE DIX3
maximum temperature at conductor	90 °C
sheathing material	PVC ST2, UV-resistant
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
bending radius, fixed installation	15 x D_A
temperature, moved/ during installation	-5 - +70 °C
max. operating temperature, fixed	-35 + 70 °C

Application:
For fixed installation indoors, outdoors, in ground and in water.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
012261	01X1,5	bk	14,4	6,4	63	dr.
012264	01X2,5	bk	24	6,8	66	dr.
012262	01X4	bk	38	7,3	110	dr.
012263	01X6	bk	58	7,8	130	dr.
012265	01X10	bk	96	9,1	180	dr.
012266	01X16	bk	154	10,1	240	dr.
012267	01X25	bk	240	11,8	350	dr.
012268	01X35	bk	336	13	460	dr.
012269	01X50	bk	480	14,5	600	dr.
012270	01X70	bk	672	16,5	779	dr.
012271	01X95	bk	912	18,4	1040	dr.
012272	01X120	bk	1152	20,2	1350	dr.
012273	01X150	bk	1440	22,2	1579	dr.
012274	01X185	bk	1776	24,8	1981	dr.
012275	01X240	bk	2304	27,7	2560	dr.
012276	01X300	bk	2880	29,9	3142	dr.
012277	01X400	bk	3840	33,5	4021	dr.
012278	01X500	bk	4800	38	5200	dr.
012279	01X630	bk	6048	42,5	6650	dr.
012280	02X1,5	bk	29	10,7	159	dr.
012281	02X2,5	bk	48	11,5	195	dr.
012282	02X4	bk	77	12,5	249	dr.
012283	02X6	bk	115,2	13,5	311	dr.
012284	02X10	bk	192	16,1	465	dr.
012285	02X16	bk	307,2	18,2	642	dr.
012286	02X25	bk	480	22,4	1000	dr.
012287	02X35	bk	672	25,1	1302	dr.
012288	02X50	bk	960	25,1	1824	dr.
012289	02X70	bk	1344	25,1	2554	dr.
012290	03X1,5	bk	43,2	11,3	177	dr.
012291	03X2,5	bk	72	12	223	dr.
012292	03X4	bk	115,2	13,1	291	dr.
012293	03X6	bk	173	14,1	370	dr.
012294	03X10	bk	288	16,9	562	dr.
012295	03X16	bk	461	19,2	790	dr.
012296	03X25	bk	720	23,7	1234	dr.
012297	03X35	bk	1008	26,6	1620	dr.
012298	03X50	bk	1440	27,1	1800	dr.
012299	03X70	bk	2016	31,2	2520	dr.
012300	03X95	bk	2736	34,5	3300	dr.
012301	03X120	bk	3456	37,5	3456	dr.

(N)2XY-O

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
012302	03X150	bk	4320	42,6	4900	dr.
012303	03X185	bk	5328	46,8	6500	dr.
012304	03X240	bk	6912	52,1	8432	dr.
012305	04X1,5	bk	58	11,8	202	dr.
012306	04X2,5	bk	96	12,8	258	dr.
012307	04X4	bk	154	14	343	dr.
012308	04X6	bk	230,4	15,2	442	dr.
012309	04X10	bk	384	18,4	678	dr.
012310	04X16	bk	614,4	21,7	1013	dr.
012311	04X25	bk	960	26,2	1530	dr.
012312	04X35	bk	1344	27,4	1990	dr.
012313	04X50	bk	1920	29	2071	dr.
012314	04X70	bk	2688	31,1	2908	dr.
012315	04X95	bk	3648	35,1	3958	dr.
012316	04X120	bk	4608	38,8	4959	dr.
012317	04X150	bk	5760	42,5	6061	dr.
012318	04X185	bk	7104	47,5	7632	dr.
012319	04X240	bk	9216	52,6	9908	dr.
012320	05X1,5	bk	72	13,1	270	dr.
012321	05X2,5	bk	120	14,2	350	dr.
012322	07X1,5	bk	101	14,1	300	dr.
012333	07X2,5	bk	168	15,2	420	dr.
012344	07X4	bk	269	16,7	630	dr.
012323	08X1,5	bk	115,2		334	dr.
012334	08X2,5	bk	192		480	dr.
012324	10X1,5	bk	144	17,1	360	dr.
012335	10X2,5	bk	240	18,5	500	dr.
012345	10X4	bk	384		930	dr.
012325	12X1,5	bk	173	17,5	400	dr.
012336	12X2,5	bk	288	18,9	560	dr.
012346	12X4	bk	461		1100	dr.
012326	14X1,5	bk	202	18,1	450	dr.
012337	14X2,5	bk	336	19,9	630	dr.
012347	14X4	bk	538		1000	dr.
012327	16X1,5	bk	230,4	19,2	500	dr.
012338	16X2,5	bk	384	23,5	710	dr.
012328	19X1,5	bk	274	19,5	560	dr.
012339	19X2,5	bk	456	21,6	830	dr.
012348	19X4	bk	730		1354	dr.
012329	21X1,5	bk	302,4	21,1	620	dr.
012340	21X2,5	bk	504	23,2	910	dr.
012330	24X1,5	bk	346	22,5	700	dr.
012341	24X2,5	bk	576	25,4	1050	dr.
012331	30X1,5	bk	432	24,1	810	dr.
012342	30X2,5	bk	720	26,9	1250	dr.
012332	40X1,5	bk	576	27,1	1050	dr.
012343	40X2,5	bk	960	30,2	1650	dr.

NYRY-J

standard	VDE 0271
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
conductor material	bare copper
maximum temperature at conductor	70 °C
insulation	PVC DIV 4
inner sheath	PVC
armour	round steel wire, galvanized
sheathing material	PVC YM3
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-5 - +70 °C

Application:
Distribution cable for industry constructions and switching boxes. For fixed installation inside of buildings, direct burial in earth, in water as well as in concrete and for heavy-duty mechanical load.

p/n	type	colour	CU kg/km	weight ca. kg/km	packaging
011763	03X1,5	bk	43	357	dr.
011732	03X4	bk	115	538	dr.
011731	03X2,5	bk	72	419	dr.
011734	03X6	bk	173	908	dr.
011764	04X2,5	bk	96	480	dr.
011733	04X4	bk	154	626	dr.
011765	04X6	bk	230	850	dr.
011735	04X10	bk	384	1088	dr.
011766	04X16	bk	614	1440	dr.
011767	05X2,5	bk	120	543	dr.
011768	05X4	bk	192	823	dr.
011736	05X6	bk	288	986	dr.

NYFGY 3,6/6 kV

core identification	nature color
nominal voltage U_o	3,6 kV
nominal voltage U	6 kV
test voltage	9 kV
conductor material	bare copper
insulation	PVC DIV 4
maximum temperature at conductor	70 °C
sheathing material	PVC YM3
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-20 - +70 °C
armour	galvanized flat steel wire

Application:
Distribution cable for industry constructions and switching boxes. For fixed installation inside of buildings, direct burial in earth, in water as well as in concrete and for heavy-duty mechanical load.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
012108	03X35	rd	1008	37	2450	dr.
012109	03X50	rd	1440	39	3100	dr.
012115	03X70	rd	2016	43	3700	dr.
012116	03X95	rd	2736	44	4600	dr.
012117	03X120	rd	3456	47	5450	dr.
012118	03X150	rd	4320	59	7300	dr.
012119	03X185	rd	5328	64	7550	dr.
012213	03X240	rd	6912	61	9641	dr.

(N)Y(Zg)2Y

Application:
The cable is designed for self supporting aerial outdoor installation up to 50 m. For fixed installation inside of buildings and for direct burial in earth. The construction of the support system assists the pulling in of cable, so that the cable can be pulled into conduits (gas- and water pipelines) over longer distances.

nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	4 kV
core identification	colours acc. VDE 0293 (HD308)
conductor material	bare copper
conductor construction	solid, class 1
insulation	PVC DIV 4
maximum temperature at conductor	70 °C
reinforcing element	in outer sheath embedded glass yarns
sheathing material	polyethylene 2YM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, fixed installation	10 x D_A
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	+5 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031735	03X1,5	bk	43	12,1	160	dr.
031925	04X1,5	bk	58	13,8	180	dr.
032859	05X1,5	bk	72	14	230	dr.
031898	03X2,5	bk	72	13	195	dr.
032071	04X4	bk	154	16,8	350	dr.
032110	04X6	bk	230	17,9	440	dr.
032111	04X10	bk	384	20,2	630	dr.
032112	04X16	bk	614	22,8	880	dr.
031952	04X2,5	bk	96	14	240	dr.
031866	05X2,5	bk	120	15,8	240	dr.
031956	05X4	bk	192	17,9	410	dr.
031938	05X6	bk	288	19,7	520	dr.
032113	05X10	bk	480	22,8	780	dr.

N2XH-J

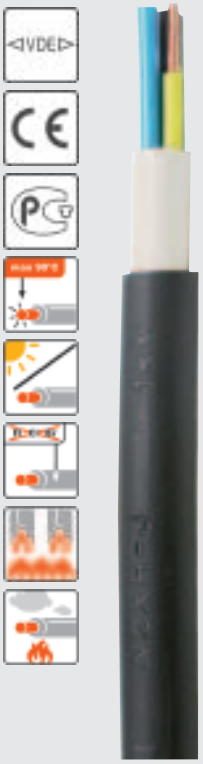
standard	VDE 0276-604
core identification	colours acc. VDE 0293 (HD308)
protective conductor	yes
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	4 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
conductor material	bare copper
insulation	XLPE 2XI1
maximum temperature at conductor	90 °C
sheathing material	FRNC-compound HM4
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	15 x D_A
conductor construction	class 1, from 25 sqmm class 2

Application:
Low-smoke, zero-halogen flame retardant power cable. For fixed indoor and outdoor installation as well as in concrete, but not for direct burial in ground or application in water.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
012570	01X16	bk	154	12	270	dr.
011544	01X95	bk	912	20	1200	dr.
012460	01X120	bk	1152	22	1500	dr.
012259	01X185	bk	1776	26	2200	dr.
012230	01X240	bk	2304	29	2750	dr.
011070	03X1,5	bk	43	12	179	dr., c. 50
011071	03X2,5	bk	72	13	225	dr.
011073	03X4	bk	115	14	291	dr.
011074	03X6	bk	173	15	371	dr.
011075	03X10	bk	288	16	523	dr.
011076	03X16	bk	461	20	773	dr.
011077	03X25	bk	720	22	1200	dr.
011078	03X35	bk	1008	25	1600	dr.
011079	03X50	bk	1440	26	1800	dr.
011514	03X25/16	bk	874	24	1200	dr.
011515	03X35/16	bk	1162	26	1640	dr.
011080	03X50/25	bk	1680	32	2200	dr.
011081	03X70/35	bk	2352	37	2950	dr.
011082	03X95/50	bk	3216	41	3900	dr.
011083	03X120/70	bk	4128	45	4800	dr.
011084	03X150/70	bk	4992	49	5750	dr.
011085	03X185/95	bk	6240	55	7200	dr.
011086	03X240/120	bk	8064	62	9150	dr.
011087	04X1,5	bk	58	13	208	dr.
011088	04X2,5	bk	96	14	265	dr.
011089	04X4	bk	154	15	352	dr.
011090	04X6	bk	230	16	454	dr.
011091	04X10	bk	384	18	647	dr.
011092	04X16	bk	614	20	964	dr.
011093	04X25	bk	960	26	1446	dr.
011094	04X35	bk	1344	29	1906	dr.
011095	04X50	bk	1920	32	2530	dr.
011096	04X70	bk	2688	37	3418	dr.
011097	04X95	bk	3648	41	4574	dr.
011098	04X120	bk	4608	48	5300	dr.
011099	04X150	bk	5760	50	6350	dr.
011100	04X185	bk	7104	53	7800	dr.
011101	04X240	bk	9216	58	10300	dr.
011102	05X1,5	bk	72	14	243	dr.
011103	05X2,5	bk	120	15	310	dr.

N2XH-J

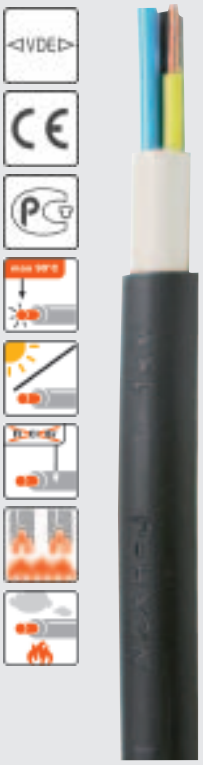
p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011104	05X4	bk	192	16	413	dr.
011105	05X6	bk	288	17	536	dr.
011106	05X10	bk	480	19	776	dr.
011107	05X16	bk	768	22	1165	dr.
011169	05X25	bk	1200	25	1766	dr.
011108	07X1,5	bk	101	14	206	dr.
011115	07X2,5	bk	168	15	287	dr.
011122	07X4	bk	269	15	530	dr.
012199	07X6	bk	403,2	15,9	569	dr.
012200	07X10	bk	672	18,2	859	dr.
011109	10X1,5	bk	144	17	287	dr.
011116	10X2,5	bk	240	18	472	dr.
011110	12X1,5	bk	173	17	328	dr.
011117	12X2,5	bk	288	18	472	dr.
011123	12X4	bk	461	21	820	dr.
011111	14X1,5	bk	202	17	383	dr.
011118	14X2,5	bk	336	19	670	dr.
012201	14X4	bk	538	19,5	765	dr.
011112	19X1,5	bk	274	19	484	dr.
011119	19X2,5	bk	456	21	840	dr.
011113	24X1,5	bk	346	22	603	dr.
011120	24X2,5	bk	576	25	1050	dr.
011114	30X1,5	bk	432	23	730	dr.
011121	30X2,5	bk	720	26	1230	dr.
011170	40X1,5	bk	576	26	1200	dr.



N2XH-O

Application:
Low-smoke, zero-halogen flame retardant power cable. For fixed indoor and outdoor installation as well as in concrete, but not for direct burial in ground or application in water.

standard	VDE 0276-604
core identification	colours acc. VDE 0293 (HD308)
protective conductor	no
maximum permitted operating voltage in 3-phase systems	1,2 kV
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	4 kV
conductor material	bare copper
insulation	XLPE 2XI1
maximum temperature at conductor	90 °C
sheathing material	FRNC-compound HM4
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	15 x D_A
conductor construction	class 1, from 25 sqmm class 2



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
012541	01X1,5	bk	14,4		53	dr.
012542	01X2,5	bk	24		90	dr.
011049	01X4	bk	38	9	140	dr.
011072	01X6	bk	58	10	160	dr.
011051	01X10	bk	96	11	210	dr.
011052	01X16	bk	154	12	270	dr.

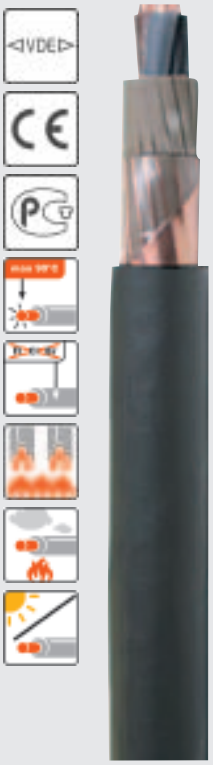
N2XH-O

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011053	01X25	bk	240	14	380	dr.
011054	01X35	bk	336	15	490	dr.
011055	01X50	bk	480	16	620	dr.
011056	01X70	bk	672	18	830	dr.
011057	01X95	bk	912	20	1200	dr.
011058	01X120	bk	1152	22	1275	dr.
011059	01X150	bk	1440	24	1700	dr.
011060	01X185	bk	1776	26	2200	dr.
011061	01X240	bk	2304	29	2750	dr.
011062	01X300	bk	2880	30	3300	dr.
011864	01X400	bk	3840	32	4420	dr.
011543	01X500	bk	4800	37	4866	dr.
012621	01X630	bk	6048		6650	dr.
011063	02X1,5	bk	29	12	180	dr.
011064	02X2,5	bk	48	12,1	210	dr.
011065	02X4	bk	77	13	270	dr.
011066	02X6	bk	115	14	340	dr.
011067	02X10	bk	192	16	450	dr.
011068	02X16	bk	307	18	600	dr.
011069	02X25	bk	480	23	980	dr.
011997	03X1,5	bk	43	12	179	dr.
012622	03X2,5	bk	72	13	225	dr.
012057	04X4	bk	154	15	352	dr.
012456	04X6	bk	230	16	454	dr.
011382	04X10	bk	384	18	647	dr.
011547	04X16	bk	614	20	964	dr.
012040	04X25	bk	960	26	1446	dr.
012211	04X35	bk	1344	29	1906	dr.
012041	04X50	bk	1920	32	2530	dr.
012212	04X70	bk	2688	37	3418	dr.
012036	04X95	bk	3648	41	4574	dr.
011381	04X120	bk	4608	48	5300	dr.
012051	10X1,5	bk	144	17	287	dr.

N2XCH

Application:
Low-smoke, zero-halogen flame retardant power cable. For fixed indoor and outdoor installation as well as in concrete, but not for direct burial in ground or application in water.

standard	VDE 0276-604
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	4 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
conductor material	bare copper
insulation	XLPE 2XI1
maximum temperature at conductor	90 °C
sheathing material	FRNC-compound HM4
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	15 x D_A
conductor construction	class 1, from 25 sqmm class 2



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011128	02X1,5/1,5	bk	52	12	250	dr.
011129	02X2,5/2,5	bk	80	12	280	dr.
011508	02X4/4	bk	123	14	320	dr.
012528	02X6/6	bk	182	15	410	dr.
012529	02X10/10	bk	312	17	550	dr.
012530	02X16/16	bk	489	19	780	dr.
011130	03X1,5/1,5	bk	66	12	250	dr.
011131	03X2,5/2,5	bk	104	13	320	dr.
011132	03X4/4	bk	161	14	400	dr.
011133	03X6/6	bk	240	16	500	dr.
011134	03X10/10	bk	408	18	750	dr.
011135	03X16/16	bk	643	21	1000	dr.
011136	03X25/16	bk	902	24	1600	dr.
011137	03X35/16	bk	1190	27	1900	dr.
011138	03X50/25	bk	1723	30	2400	dr.
012063	03X70/35	bk	2410	34	2615	dr.
012064	03X185/95	bk	6383	50	6680	dr.
011139	04X1,5/1,5	bk	81	13	235	dr.
011140	04X2,5/2,5	bk	128	14	302	dr.
011141	04X4/4	bk	200	15	411	dr.
011142	04X6/6	bk	297	17	527	dr.
011029	04X10/10	bk	504	19	762	dr.
011143	04X16/16	bk	796	22	1139	dr.
011144	04X25/16	bk	1142	27	1634	dr.
011145	04X35/16	bk	1526	29	2080	dr.
011146	04X50/25	bk	2203	33	2790	dr.
011147	04X70/35	bk	3082	41	3550	dr.
011148	04X95/50	bk	4208	46	4800	dr.
011149	04X120/70	bk	5388	50	6556	dr.
011150	04X150/70	bk	6540	55	7904	dr.
011151	04X185/95	bk	8159	62	9950	dr.
011152	04X240/120	bk	10546	68	12912	dr.
012215	05X1,5/1,5	bk	95	14	283	dr.
011153	07X1,5/2,5	bk	133	16	380	dr.
011154	07X2,5/2,5	bk	200	18	480	dr.
011155	07X4/4	bk	315	19	650	dr.
011156	07X6/6	bk	470	20	850	dr.
011979	10X2,5/4	bk	286	18	550	dr.
011157	12X1,5/2,5	bk	205	20	550	dr.
011158	12X2,5/4	bk	334	21	750	dr.
012458	14X1,5/2,5	bk	234	17,6	486	dr.

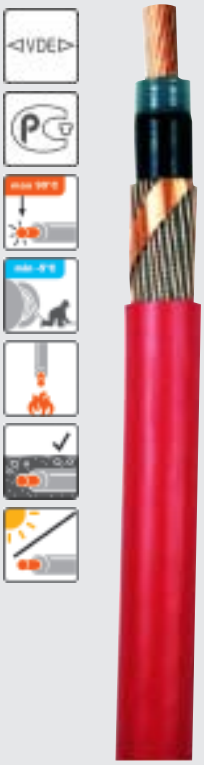
N2XCH

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011980	21X2,5/10	bk	624	23	1050	dr.
011159	24X1,5/6	bk	413	25	950	dr.
011973	24X2,5/10	bk	696	26	1106	dr.
011160	30X1,5/6	bk	499	27	1100	dr.
011858	30X2,5/6	bk	840	28	1500	dr.
011161	30X2,5/10	bk	840	30	1500	dr.

N2XSY 6/10 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. Acc. to VDE 0276-603 cables must be protected against direct sun irradiation.

standard	VDE 0276-620
nominal voltage U_o	6 kV
nominal voltage U	10 kV
maximum permitted operating voltage in 3-phase systems	12 kV
test voltage	21 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
maximum temperature at conductor	90 °C
sheathing material	PVC DMV6
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	+70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	15 x D_A



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011292	1X35/16	rd	518	24	920	dr.
011288	1X50/16	rd	662	25	1100	dr.
011289	1X70/16	rd	854	27	1300	dr.
011326	1X95/16	rd	1094	28	1600	dr.
011290	1X120/16	rd	1334	30	1850	dr.
011327	1X150/16	rd	1622	31	2050	dr.
011291	1X150/25	rd	1723	31	2200	dr.
011328	1X185/16	rd	1958	33	2450	dr.
011329	1X185/25	rd	2059	33,5	2550	dr.
011330	1X240/16	rd	2486	35	3000	dr.
011294	1X240/25	rd	2587	35	3150	dr.
011331	1X300/25	rd	3163	37	3750	dr.
011332	1X400/35	rd	4234	41	4650	dr.
011333	1X500/35	rd	5194	44	5700	dr.
011976	1X630/35	rd	6442	49	7090	dr.
011974	1X630/50	rd	6538	49	6999	dr.

N2XSY 12/20 kV

standard	VDE 0276-620
nominal voltage U_o	12 kV
nominal voltage U	20 kV
maximum permitted operating voltage in 3-phase systems	24 kV
test voltage	42 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
maximum temperature at conductor	90 °C
sheathing material	PVC DMV6
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	+70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	15 x D_A

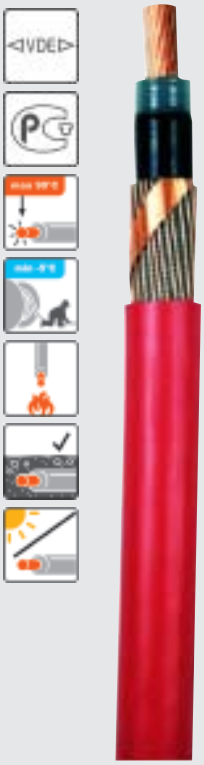
Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. Acc. to VDE 0276-603 cables must be protected against direct sun irradiation.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011295	1X35/16	rd	518	28	1100	dr.
011296	1X50/16	rd	662	29	1250	dr.
011297	1X70/16	rd	854	31	1500	dr.
011298	1X95/16	rd	1094	32	1800	dr.
011318	1X120/16	rd	1334	34	2050	dr.
011334	1X150/16	rd	1622	35	2300	dr.
011335	1X150/25	rd	1723	35	2400	dr.
011336	1X185/16	rd	1958	37	2650	dr.
011299	1X185/25	rd	2059	37	2800	dr.
011337	1X240/16	rd	2486	40	3250	dr.
011338	1X240/25	rd	2587	40	3400	dr.
011339	1X300/25	rd	3163	42	4000	dr.
011341	1X400/35	rd	4234	45	4950	dr.
011340	1X500/35	rd	5194	49	6050	dr.
012566	1X630/35	rd	6442		7090	dr.
011529	1X800/35	rd	8094	60	9032	dr.

N2XSY 18/30 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. Acc. to VDE 0276-603 cables must be protected against direct sun irradiation.

standard	VDE 0276-620
nominal voltage U_o	18 kV
nominal voltage U	30 kV
maximum permitted operating voltage in 3-phase systems	36 kV
test voltage	63 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
maximum temperature at conductor	90 °C
sheathing material	PVC DMV6
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	+70 °C
temperature, moved/during installation	-5 - +70 °C
bending radius, fixed installation	15 x D_A



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011342	1X50/16	rd	662	34	1550	dr.
011343	1X70/16	rd	854	36	1750	dr.
011344	1X95/16	rd	1094	37	2050	dr.
011345	1X120/16	rd	1334	39	2350	dr.
011346	1X150/25	rd	1723	40	2700	dr.
011347	1X185/25	rd	2059	42	3100	dr.
011348	1X240/25	rd	2587	44	3700	dr.
011349	1X300/25	rd	3163	47	4350	dr.
011350	1X400/35	rd	4234	50	5350	dr.
011351	1X500/35	rd	5194	53	6450	dr.

NA2XSY 6/10 kV

standard	VDE 0276-620
nominal voltage U_o	6 kV
nominal voltage U	10 kV
test voltage	21 kV
maximum permitted operating voltage in 3-phase systems	12 kV
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	PVC DMV6
maximum temperature at conductor	90 °C
temperature, moved/ during installation	-5 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. Acc. to VDE 0276-603 cables must be protected against direct sun irradiation.

p/n	type	colour	CU kg/km	AL kg/km	D_A mm	weight ca. kg/km	packaging
011392	1X50/16	rd	182	145	25	780	dr.
011393	1X70/16	rd	182	203	27	870	dr.
012614	1X70/25	rd	283	203		1395	dr.
011394	1X95/16	rd	182	276	28	990	dr.
011395	1X120/16	rd	182	348	30	1100	dr.
011396	1X150/16	rd	182	435	31	1250	dr.
011397	1X150/25	rd	283	435	31	1300	dr.
011398	1X185/16	rd	182	537	33	1400	dr.
011399	1X185/25	rd	283	537	33	1450	dr.
011400	1X240/16	rd	182	696	35	1600	dr.
011401	1X240/25	rd	283	696	35	1650	dr.
011402	1X300/25	rd	283	870	37	1950	dr.
011403	1X400/35	rd	394	1160	41	2350	dr.
011404	1X500/35	rd	394	1450	44	2700	dr.
012508	1X800/35	rd	393	2320		3973	dr.

NA2XSY 12/20 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. Acc. to VDE 0276-603 cables must be protected against direct sun irradiation.

standard	VDE 0276-620
nominal voltage U_o	12 kV
nominal voltage U	20 kV
test voltage	42 kV
maximum permitted operating voltage in 3-phase systems	24 kV
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	PVC DMV6
maximum temperature at conductor	90 °C
temperature, moved/during installation	-5 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

p/n	type	colour	CU kg/km	AL kg/km	D_A mm	weight ca. kg/km	packaging
011405	1X50/16	rd	182	145	29	970	dr.
011406	1X70/16	rd	182	203	31	1100	dr.
011407	1X95/16	rd	182	276	32	1200	dr.
011408	1X120/16	rd	182	348	34	1350	dr.
011409	1X150/16	rd	182	435	35	1450	dr.
011410	1X150/25	rd	283	435	35	1500	dr.
011411	1X185/16	rd	182	537	37	1650	dr.
011412	1X185/25	rd	283	537	37	1700	dr.
011413	1X240/16	rd	182	696	40	1850	dr.
011414	1X240/25	rd	283	696	40	1900	dr.
011415	1X300/25	rd	283	870	42	2200	dr.
011416	1X400/35	rd	394	1160	45	2600	dr.
011417	1X500/35	rd	394	1450	48	3000	dr.

NA2XSY 18/30 kV

standard	VDE 0276-620
nominal voltage U_o	18 kV
nominal voltage U	30 kV
test voltage	63 kV
maximum permitted operating voltage in 3-phase systems	36 kV
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	PVC DMV6
maximum temperature at conductor	90 °C
temperature, moved/ during installation	-5 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

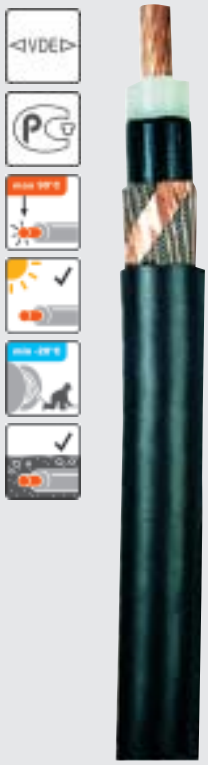
Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. Acc. to VDE 0276-603 cables must be protected against direct sun irradiation.

p/n	type	colour	CU kg/km	AL kg/km	D_A mm	weight ca. kg/km	packaging
011418	1X50/16	rd	182	145	34	1250	dr.
011419	1X70/16	rd	182	203	36	1350	dr.
011420	1X95/16	rd	182	276	37	1500	dr.
011421	1X120/16	rd	182	348	39	1600	dr.
011422	1X150/16	rd	182	435	40	1750	dr.
011423	1X150/25	rd	283	435	40	1850	dr.
011424	1X185/16	rd	182	537	42	1950	dr.
011425	1X185/25	rd	283	537	42	2000	dr.
011426	1X240/16	rd	182	696	44	2200	dr.
011427	1X240/25	rd	283	696	44	2250	dr.
011428	1X300/25	rd	283	870	47	2550	dr.
011429	1X400/35	rd	394	1160	50	3000	dr.
011430	1X500/35	rd	394	1450	53	3450	dr.

N2XS2Y 6/10 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation.

standard	VDE 0276-620
nominal voltage U_o	6 kV
nominal voltage U	10 kV
maximum permitted operating voltage in 3-phase systems	12 kV
test voltage	21 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	polyethylene DMP2
flame retardant	no
maximum temperature at conductor	90 °C
temperature, moved/during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011352	1X35/16	bk	518	24	900	dr.
011353	1X50/16	bk	662	25	950	dr.
011354	1X70/16	bk	854	27	1200	dr.
011355	1X95/16	bk	1094	28	1450	dr.
011356	1X120/16	bk	1334	30	1700	dr.
011357	1X150/16	bk	1622	31	1950	dr.
011358	1X150/25	bk	1723	31	2050	dr.
011359	1X185/16	bk	1958	33	2350	dr.
011360	1X185/25	bk	2059	33	2400	dr.
011361	1X240/16	bk	2486	35	2900	dr.
011362	1X240/25	bk	2587	35	2950	dr.
011363	1X300/25	bk	3163	37	3550	dr.
011364	1X400/35	bk	4234	41	4500	dr.
011365	1X500/35	bk	5194	44	5500	dr.
012047	1X630/35	bk	6384	49	6840	dr.

N2XS2Y 12/20 kV

standard	VDE 0276-620
nominal voltage U_o	12 kV
nominal voltage U	20 kV
maximum permitted operating voltage in 3-phase systems	24 kV
test voltage	42 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	polyethylene DMP2
flame retardant	no
maximum temperature at conductor	90 °C
temperature, moved/ during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

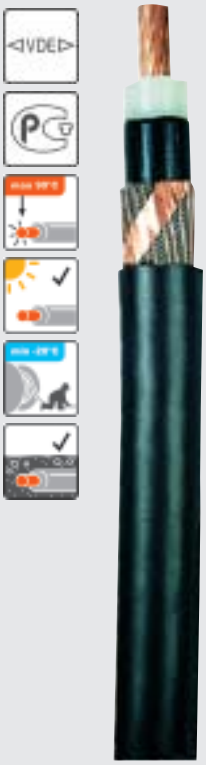
Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011366	1X35/16	bk	518	28	970	dr.
011367	1X50/16	bk	662	29	1150	dr.
011368	1X70/16	bk	854	31	1350	dr.
011369	1X95/16	bk	1094	32	1650	dr.
011370	1X120/16	bk	1334	34	1900	dr.
011371	1X150/16	bk	1622	35	2150	dr.
011372	1X150/25	bk	1723	35	2250	dr.
011373	1X185/16	bk	1958	37	2550	dr.
011374	1X185/25	bk	2059	37	2600	dr.
011375	1X240/16	bk	2486	40	3100	dr.
011376	1X240/25	bk	2587	40	3200	dr.
011377	1X300/25	bk	3163	42	3800	dr.
011378	1X400/35	bk	4234	45	4750	dr.
011379	1X500/35	bk	5194	48	5800	dr.

N2XS2Y 18/30 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation.

standard	VDE 0276-620
nominal voltage U_o	18 kV
nominal voltage U	30 kV
maximum permitted operating voltage in 3-phase systems	36 kV
test voltage	63 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	polyethylene DMP2
flame retardant	no
maximum temperature at conductor	90 °C
temperature, moved/ during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011380	1X50/16	bk	662	34	1350	dr.
011383	1X70/16	bk	854	36	1600	dr.
011384	1X95/16	bk	1094	37	1900	dr.
011385	1X120/16	bk	1334	39	2150	dr.
011386	1X150/25	bk	1723	40	2550	dr.
011387	1X185/25	bk	2059	42	2900	dr.
011388	1X240/25	bk	2587	44	3500	dr.
011777	1X240/70	bk	3084	45	4200	dr.
011389	1X300/25	bk	3163	47	4150	dr.
011390	1X400/35	bk	4234	50	5100	dr.
011391	1X500/35	bk	5194	53	6200	dr.
011995	1X150/50	bk	1969	42	2750	dr.

N2XS(F)2Y 6/10 kV

standard	VDE 0276-620
nominal voltage U_o	6 kV
nominal voltage U	10 kV
maximum permitted operating voltage in 3-phase systems	12 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
maximum temperature at conductor	90 °C
bonded sheath	yes
sheathing material	polyethylene DMP2
flame retardant	no
temperature, moved/during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.
The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011479	1X50/16	bk	662	25	1150	dr.
011480	1X70/16	bk	854	27	1400	dr.
011481	1X95/16	bk	1094	28	1650	dr.
011482	1X120/16	bk	1334	30	1900	dr.
011483	1X150/25	bk	1723	31	2300	dr.
011484	1X185/25	bk	2059	33	2650	dr.
011485	1X240/25	bk	2587	35	3250	dr.
011486	1X300/25	bk	3163	37	3850	dr.
011487	1X400/35	bk	4234	41	4800	dr.
011488	1X500/35	bk	5194	44	5900	dr.
012224	1X630/35	bk	6442	49	7014	dr.

N2XS(F)2Y 12/20 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.
The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

standard	VDE 0276-620
nominal voltage U_o	12 kV
nominal voltage U	20 kV
maximum permitted operating voltage in 3-phase systems	24 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
maximum temperature at conductor	90 °C
bonded sheath	yes
sheathing material	polyethylene DMP2
flame retardant	no
temperature, moved/ during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011546	1X35/16	bk	518	28	1300	dr.
011489	1X50/16	bk	662	29	1350	dr.
011490	1X70/16	bk	854	31	1600	dr.
011317	1X95/16	bk	1094	32	1900	dr.
011491	1X120/16	bk	1334	34	2150	dr.
011492	1X150/25	bk	1723	35	2500	dr.
011309	1X185/25	bk	2059	37	2900	dr.
011493	1X240/25	bk	2587	40	3500	dr.
011494	1X300/25	bk	3163	42	4150	dr.
011495	1X400/35	bk	4234	45	5100	dr.
011496	1X500/35	bk	5194	48	6200	dr.
012225	1X630/35	bk	6442	52	7365	dr.

N2XS(F)2Y 18/30 kV

standard	VDE 0276-620
nominal voltage U_o	18 kV
nominal voltage U	30 kV
maximum permitted operating voltage in 3-phase systems	36 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
maximum temperature at conductor	90 °C
bonded sheath	yes
sheathing material	polyethylene DMP2
flame retardant	no
temperature, moved/ during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.
The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011516	1X50/16	bk	662	34	1650	dr.
011517	1X70/16	bk	854	36	1900	dr.
011526	1X95/16	bk	1094	37	2150	dr.
011519	1X120/16	bk	1334	39	2450	dr.
011520	1X150/25	bk	1723	40	2750	dr.
011521	1X185/25	bk	2059	42	3150	dr.
011972	1X185/35	bk	2175	42	2955	dr.
011522	1X240/25	bk	2587	44	3800	dr.
012216	1X240/70	bk	3084	44	3786	dr.
011523	1X300/25	bk	3163	47	4400	dr.
011524	1X400/35	bk	4234	50	5450	dr.
011525	1X500/35	bk	5194	53	6550	dr.
012226	1X630/35	bk	6442	58	7803	dr.

N2XS(FL)2Y 6/10 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.
The high mechanical durability of the laminated PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

standard	VDE 0276-620
nominal voltage U_o	6 kV
nominal voltage U	10 kV
maximum permitted operating voltage in 3-phase systems	12 kV
test voltage	21 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	polyethylene DMP2
bonded sheath	yes
bending radius, fixed installation	15 x D_A
maximum temperature at conductor	90 °C
max. operating temperature, fixed	+70 °C
temperature, moved/ during installation	-20 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
012467	01X95/16	bk	1094	29	1450	dr.
012459	01X120/16	bk	1334	31	1900	dr.
012639	01X150/25	bk	1723	31	1997	dr.
012582	01X185/25	bk	2059	34,4	2463	dr.
011825	01X240/25	bk	2587	36	3050	dr.
012001	01X300/25	bk	3163	38	3720	dr.
012613	01X500/35	bk	5194	45	5878	dr.
012654	01X630/35	bk	6442	45,1	7014	dr.

N2XS(FL)2Y 12/20 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.
The high mechanical durability of the laminated PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

standard	VDE 0276-620
nominal voltage U_o	12 kV
nominal voltage U	20 kV
maximum permitted operating voltage in 3-phase systems	24 kV
test voltage	42 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	polyethylene DMP2
bonded sheath	yes
bending radius, fixed installation	15 x D_A
maximum temperature at conductor	90 °C
max. operating temperature, fixed	+70 °C
temperature, moved/ during installation	-20 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011786	1X95/16	bk	1094	33	1900	dr.
011750	1X300/25	bk	3163	43	3940	dr.
012228	1X500/35	bk	5194	50,5	5948	dr.

NA2XS2Y 6/10 kV

standard	VDE 0276-620
nominal voltage Uo	6 kV
nominal voltage U	10 kV
test voltage	21 kV
maximum permitted operating voltage in 3-phase systems	12 kV
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	polyethylene DMP2
flame retardant	no
maximum temperature at conductor	90 °C
temperature, moved/during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x DA

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation.

p/n	type	colour	CU kg/km	AL kg/km	DA mm	weight ca. kg/km	packaging
011431	1X50/16	bk	182	145	25	670	dr.
011432	1X70/16	bk	182	203	27	750	dr.
011433	1X95/16	bk	182	276	28	860	dr.
011498	1X120/16	bk	182	348	30	950	dr.
011434	1X150/16	bk	182	435	31	1100	dr.
011435	1X150/25	bk	283	435	31	1150	dr.
011436	1X185/16	bk	182	537	33	1250	dr.
011437	1X185/25	bk	283	537	33	1300	dr.
011438	1X240/16	bk	182	696	35	1400	dr.
011439	1X240/25	bk	283	696	35	1500	dr.
011440	1X300/25	bk	283	870	37	1750	dr.
011441	1X400/35	bk	394	1160	41	2150	dr.
011442	1X500/35	bk	394	1450	44	2500	dr.

NA2XS2Y 12/20 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation.

standard	VDE 0276-620
nominal voltage U_o	12 kV
nominal voltage U	20 kV
test voltage	42 kV
maximum permitted operating voltage in 3-phase systems	24 kV
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	polyethylene DMP2
flame retardant	no
maximum temperature at conductor	90 °C
temperature, moved/ during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

p/n	type	colour	CU kg/km	AL kg/km	D_A mm	weight ca. kg/km	packaging
011443	1X50/16	bk	182	145	29	830	dr.
011444	1X70/16	bk	182	203	31	920	dr.
011324	1X95/16	bk	182	276	32	1050	dr.
011323	1X120/16	bk	182	348	34	1150	dr.
011445	1X150/16	bk	182	435	35	1300	dr.
011325	1X150/25	bk	283	435	35	1350	dr.
011446	1X185/16	bk	182	537	37	1450	dr.
011321	1X185/25	bk	283	537	37	1550	dr.
011449	1X240/16	bk	182	696	40	1650	dr.
011448	1X240/25	bk	283	696	40	1750	dr.
011450	1X300/25	bk	283	870	42	2000	dr.
011451	1X400/35	bk	394	1160	45	2400	dr.
011452	1X500/35	bk	394	1450	48	2800	dr.
012227	1X630/35	bk	394	1827	52,9	3297	dr.

NA2XS2Y 18/30 kV

standard	VDE 0276-620
nominal voltage U_o	20 kV
nominal voltage U	30 kV
test voltage	63 kV
maximum permitted operating voltage in 3-phase systems	36 kV
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	polyethylene DMP2
flame retardant	no
maximum temperature at conductor	90 °C
temperature, moved/during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation.

p/n	type	colour	CU kg/km	AL kg/km	D_A mm	weight ca. kg/km	packaging
011453	1X50/16	bk	182	145	34	1100	dr.
011454	1X70/16	bk	182	203	36	1200	dr.
011455	1X95/16	bk	182	276	37	1300	dr.
011456	1X120/16	bk	182	348	39	1450	dr.
011457	1X150/25	bk	283	435	40	1650	dr.
011458	1X185/25	bk	283	537	42	1800	dr.
011459	1X240/25	bk	283	696	44	2050	dr.
011460	1X300/25	bk	283	870	47	2300	dr.
011461	1X400/35	bk	394	1160	50	2750	dr.
011462	1X500/35	bk	394	1450	53	3150	dr.

NA2XS(F)2Y 6/10 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.
The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

standard	VDE 0276-620
nominal voltage U_o	6 kV
nominal voltage U	10 kV
maximum permitted operating voltage in 3-phase systems	12 kV
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
maximum temperature at conductor	90 °C
bonded sheath	yes
sheathing material	polyethylene DMP2
flame retardant	no
temperature, moved/ during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

p/n	type	colour	CU kg/km	AL kg/km	D_A mm	weight ca. kg/km	packaging
011463	1X50/16	bk	182	145	25	850	dr.
011464	1X70/16	bk	182	203	27	950	dr.
011465	1X95/16	bk	182	276	28	1100	dr.
011466	1X120/16	bk	182	348	30	1200	dr.
011467	1X150/25	bk	283	435	31	1400	dr.
011468	1X185/25	bk	283	537	33	1550	dr.
011469	1X240/25	bk	283	696	35	1750	dr.
011470	1X300/25	bk	283	870	37	2050	dr.
011471	1X400/35	bk	394	1160	41	2450	dr.
011472	1X500/35	bk	394	1450	44	2850	dr.
012053	1X630/35	bk	394	1827	49	2969	dr.

NA2XS(F)2Y 12/20 kV

standard	VDE 0276-620
nominal voltage U_o	12 kV
nominal voltage U	20 kV
maximum permitted operating voltage in 3-phase systems	24 kV
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
maximum temperature at conductor	90 °C
bonded sheath	yes
sheathing material	polyethylene DMP2
flame retardant	no
temperature, moved/ during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.
The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

p/n	type	colour	CU kg/km	AL kg/km	D_A mm	weight ca. kg/km	packaging
011473	1X50/16	bk	182	145	29	1050	dr.
011474	1X70/16	bk	182	203	31	950	dr.
011320	1X95/16	bk	182	276	32	1300	dr.
011319	1X120/16	bk	182	348	34	1450	dr.
012543	1X120/50	rd	560	348	35	1718	dr.
011306	1X150/25	bk	283	435	35	1650	dr.
011307	1X185/25	bk	283	537	37	1800	dr.
011308	1X240/25	bk	283	696	40	2050	dr.
012544	1X240/50	rd	560	435	40	2237	dr.
011475	1X300/25	bk	283	870	42	2300	dr.
011476	1X400/35	bk	394	1160	45	2800	dr.
011477	1X500/35	bk	394	1450	48	3200	dr.
011838	1X630/35	bk	394	1827	52	3268	dr.
012258	1X800/35	bk	394	2320	59,5	3973	dr.

NA2XS(F)2Y 18/30 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.
The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

standard	VDE 0276-620
nominal voltage U_o	18 kV
nominal voltage U	30 kV
maximum permitted operating voltage in 3-phase systems	36 kV
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
maximum temperature at conductor	90 °C
bonded sheath	yes
sheathing material	polyethylene DMP2
flame retardant	no
temperature, moved/ during installation	-20 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

p/n	type	colour	CU kg/km	AL kg/km	D_A mm	weight ca. kg/km	packaging
011534	1X50/16	bk	182	145	34	1350	dr.
011478	1X70/16	bk	182	203	36	1450	dr.
011535	1X95/16	bk	182	276	37	1600	dr.
011536	1X120/16	bk	182	348	39	1750	dr.
011537	1X150/25	bk	283	435	40	1950	dr.
011538	1X185/25	bk	283	537	42	2150	dr.
011539	1X240/25	bk	283	696	44	2400	dr.
011540	1X300/25	bk	283	870	47	2700	dr.
011541	1X400/35	bk	394	1160	50	3200	dr.
011542	1X500/35	bk	394	1450	53	3650	dr.
012223	1X630/35	bk	394	1827	59,9	3738	dr.

NA2XS(FL)2Y 6/10 kV

standard	VDE 0276-620
nominal voltage U_o	6 kV
nominal voltage U	10 kV
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
bending radius, fixed installation	15 x D_A
sheathing material	polyethylene DMP2
maximum temperature at conductor	90 °C
max. operating temperature, fixed	+70 °C
temperature, moved/ during installation	-20 - +70 °C
bonded sheath	yes
flame retardant	no

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.
The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

p/n	type	colour	CU kg/km	AL kg/km	D_A mm	weight ca. kg/km	packaging
012462	01X150/25	bk	283	435	31	1156	dr.
012461	01X240/25	bk	283	696	35	1850	dr.
012545	01X240/50	bk	560	696	36	1740	dr.
012463	01X400/35	bk	394	1160	41	2466	dr.

NA2XS(FL)2Y 12/20 kV

standard	VDE 0276-620
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
bending radius, fixed installation	15 x D_A
sheathing material	polyethylene DMP2
maximum temperature at conductor	90 °C
max. operating temperature, fixed	+70 °C
temperature, moved/ during installation	-20 - +70 °C
bonded sheath	yes
flame retardant	no

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.
The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

p/n	type	colour	CU kg/km	AL kg/km	D_A mm	weight ca. kg/km	packaging
012533	01X70/16	bk	182	203	36	1000	dr.
012568	01X70/25	bk	283	203	32,2	1395	dr.
011551	01X95/16	bk	182	276	32	1150	dr.
011783	01X120/16	bk	182	348	34	1250	dr.
012569	01X120/50	bk	560	348	34	1540	dr.
011848	01X240/25	bk	283	696	40	1850	dr.
012512	01X150/25	bk	283	435	35	1650	dr.
011852	01X400/35	bk	394	1160	45	2466	dr.

NA2XS(FL)2Y 18/30 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks.
The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or during operation. The water blocking tape avoids water propagation inside the cable.

standard	VDE 0276-620
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE DIX8
bending radius, fixed installation	15 x D_A
sheathing material	polyethylene DMP2
maximum temperature at conductor	90 °C
max. operating temperature, fixed	+70 °C
temperature, moved/ during installation	-20 - +70 °C
bonded sheath	yes
flame retardant	no

p/n	type	colour	CU kg/km	AL kg/km	D_A mm	weight ca. kg/km	packaging
012509	01X95/16	bk	182	276	37	1150	dr.
012657	01X120/16	bk	182	348	39	1750	dr.
012510	01X240/25	bk	283	696	44	1850	dr.
012658	01X300/25	bk	283	870	47	2700	dr.
012511	01X400/35	bk	394	1160	50	2466	dr.

N2XSEY 6/10 kV

Application:
For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. Acc. to VDE 0276-603 cables must be protected against direct sun irradiation.

standard	VDE 0276-620
nominal voltage U_o	6 kV
nominal voltage U	10 kV
maximum permitted operating voltage in 3-phase systems	12 kV
test voltage	21 kV
conductor material	bare copper
conductor construction	stranded, class 2
insulation	XLPE DIX8
sheathing material	PVC DMV6
flame retardant	VDE 0482-332-1-2/IEC 60332-1
maximum temperature at conductor	90 °C
temperature, moved/ during installation	-5 - +70 °C
max. operating temperature, fixed	+70 °C
bending radius, fixed installation	15 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011310	3X35/16	rd	1209	49	3300	dr.
011311	3X50/16	rd	1671	52	3900	dr.
011312	3X70/16	rd	2247	55	4700	dr.
011313	3X95/16	rd	2994	60	5850	dr.
011314	3X120/16	rd	3714	64	6800	dr.
011315	3X150/25	rd	4638	67	7950	dr.
011316	3X185/25	rd	5646	71	9300	dr.
011497	3X240/25	rd	7272	77	11550	dr.

NFA2X

standard	VDE 0274 (Z)
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
conductor material	aluminium
conductor construction	stranded, class 2
insulation	XLPE
max. operating temperature, fixed	-20 - 80 °C

Application:
For overhead distribution, mainly for public distribution with a highest voltage not above 1,2 kV.

p/n	type	colour	AL kg/km	D_A mm	weight ca. kg/km	packaging
090072	01X16	bk	46,4	8	74	dr.
090026	01X25	bk	72	10	105	dr.
090091	01X35	bk	102	11	133	dr.
090092	01X50	bk	145	12,5	180	dr.
090025	01X70	bk	203	14	258	dr.
090095	01X95	bk	276	15,4	334	dr.
090073	02X16	bk	93	15,6	147	dr.
090028	02X25	bk	144		200	dr.
090075	04X16	bk	186	18,8	285	dr.
011699	04X25	bk	290	22	427	dr.
090023	04X35	bk	406	25	620	dr.
090029	04X50	bk	580	28	785	dr.
090024	04X70	bk	812	32	1032	dr.
090030	04X95	bk	1102	37	1332	dr.
090078	04X70+25	bk	885	36	1105	dr.
090105	04X70+35	bk	914	36,2	1150	dr.
090098	04X70+2X25	bk	956		1232	dr.
090080	04X70+2X35	bk	1016	40,1	1254	dr.
090096	04X35+35	bk	508		750	dr.
090097	04X95+25	bk	1175		1405	dr.

CUSTOMER-ORIENTED

Content

NYM-J

standard	VDE 0250-204
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U	500 V
nominal voltage U_o	300 V
test voltage	2 kV
protective conductor	yes
conductor material	bare copper
insulation	PVC TI1
maximum temperature at conductor	70 °C
sheathing material	PVC TM1
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	5 - 70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1

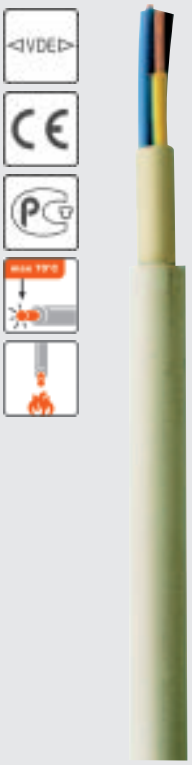
Application:
For installation in, on or under plaster, in dry, damp or wet rooms as well as in walls and concrete. Also suitable for installation outdoors if protected against direct sun irradiation.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
020003	01X2,5	gy	24	5,8	70	dr., c. 100, c. 50
020004	01X4	gy	38	6,4	80	dr., c. 100, c. 50
020005	01X6	gy	58	6,8	105	dr., c. 100, c. 50
020001	01X10	gy	96	8	155	dr., c. 100, c. 50
020002	01X16	gy	154	9,1	230	dr., c. 100, c. 50
020150	01X25	gy	240	12,3	330	dr., c. 50
020006	03X1,5	gy	43	8,2	135	c. 100, c. 50
020007	03X1,5/TR	gy	43	8,2	135	dr.
020302	03X1,5/KTR	gy	43	8,2	135	dr.
020009	03X2,5	gy	72	9,4	190	c. 100, c. 50, c. 250
020166	03X2,5/TR	gy	72	9,4	190	dr.
020305	03X2,5/KTR	gy	72	9,4	190	dr.
020010	03X4	gy	115	10,8	265	dr., c. 100, c. 50
020044	03X6	gy	173	12,2	315	dr.
020050	03X10	gy	288	14,7	465	dr.
020011	04X1,5	gy	58	8,8	160	c. 100, c. 50
020012	04X1,5/TR	gy	58	8,8	160	dr.
020303	04X1,5/KTR	gy	58	8,8	160	dr.
020015	04X2,5	gy	96	10,2	230	c. 100, c. 50
020169	04X2,5/TR	gy	96	10,2	230	dr.
020018	04X4	gy	154	12,1	330	dr., c. 100, c. 50
020019	04X6	gy	230	13,3	460	dr., c. 100, c. 50
020013	04X10	gy	384	16,1	690	dr., c. 100, c. 50
020014	04X16	gy	614	19	1090	dr., c. 50
020016	04X25	gy	960	23,4	1640	dr., c. 50
020017	04X35	gy	1344	25,7	2090	dr., c. 50
020020	05X1,5	gy	72	9,5	190	c. 100, c. 50
020021	05X1,5/TR	gy	72	9,5	190	dr.
020304	05X1,5/KTR	gy	72	9,5	190	dr.
020024	05X2,5	gy	120	11	270	c. 100, c. 50
020170	05X2,5/TR	gy	120	11	270	dr.
020026	05X4	gy	192	13,2	410	dr., c. 100, c. 50
020027	05X6	gy	288	14,5	540	dr., c. 100, c. 50
020022	05X10	gy	480	17,7	850	dr., c. 100, c. 50
020023	05X16	gy	768	21,2	1350	dr., c. 50
020025	05X25	gy	1200	25,7	1990	dr.
020295	05X35	gy	1680	33,5	2160	dr.
020028	07X1,5	gy	101	10,5	235	dr., c. 100, c. 50
020029	07X2,5	gy	168	12,6	350	dr., c. 100, c. 50
020300	08X1,5	gy	115	12,5	237	dr.
020030	10X1,5	gy	144	14,3	330	dr., c. 100, c. 50
020045	12X1,5	gy	173	14,4	400	dr., c. 100, c. 50
020294	12X2,5	gy	288	15,4	660	dr.
020307	16X1,5	gy	230	15,8	457	dr.
020301	61X1,5	gy	878	25,7	1436	dr.

NYM-O

Application:
For installation in, on or under plaster, in dry, damp or wet rooms as well as in walls and concrete. Also suitable for installation outdoors if protected against direct sun irradiation.

standard	VDE 0250-204
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U	500 V
nominal voltage U_o	300 V
test voltage	2 kV
protective conductor	no
conductor material	bare copper
insulation	PVC TI1
maximum temperature at conductor	70 °C
sheathing material	PVC TM1
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	5 - 70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
020031	01X1,5	gy	14,4	5,2	45	dr., c. 100, c. 50
020043	01X2,5	gy	24	5,8	70	dr., c. 100, c. 50
020178	01X4	gy	38	6,4	80	dr., c. 100, c. 50
020177	01X6	gy	58	6,8	105	dr., c. 100, c. 50
020032	01X10	gy	96	8	155	dr., c. 100, c. 50
020033	01X16	gy	154	9,1	230	dr., c. 100, c. 50
020034	02X1,5	gy	29	7,8	115	c. 100, c. 50
020167	02X1,5/TR	gy	29	7,8	115	dr.
020035	02X2,5	gy	48	8,9	157	c. 100, c. 50
020168	02X2,5/TR	gy	48	8,9	157	dr.
020036	03X1,5	gy	43	8,2	135	c. 100, c. 50
020174	03X1,5/TR	gy	43	8,2	135	dr.
020037	04X1,5	gy	58	8,8	160	c. 100, c. 50
020175	04X1,5/TR	gy	58	8,8	160	dr.
020046	04X6	gy	230	13,3	460	dr., c. 50
020038	04X10	gy	384	16,1	690	dr., c. 50
020039	04X16	gy	614	19	1090	dr., c. 100, c. 50
020040	04X25	gy	960	23,4	1640	dr., c. 50
020041	04X35	gy	1344	25,7	2090	dr.
020042	07X1,5	gy	101	10,5	235	dr., c. 100, c. 50
020326	12X1,5	gy	173	14,4	400	c. 100, c. 50, dr.

(N)YM(St)-J

core identification	colours acc. VDE 0293 (HD308)
nominal voltage U	500 V
nominal voltage U_0	300 V
test voltage	2 kV
protective conductor	yes
conductor material	bare copper
insulation	PVC TI1
maximum temperature at conductor	70 °C
sheathing material	PVC TM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	5 - 70 °C

Application:
This cable has a static foil screen for limiting its irradiated electromagnetic field in areas with high requirements to EMC as computer rooms, hospitals as well as in living rooms with high sensitivity to electrical and/or magnetical fields.

For installation on and under plaster in dry and wet rooms, as well as inside of walls or in concrete. Also for outdoor use, if the cable is protected against direct sun irradiation.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
020308	03X1,5	gy	51	9	154	dr., c. 100, c. 50
020312	03X2,5	gy	80	11	203	dr., c. 100, c. 50
020315	03X4	gy	123	11,5	290	dr., c. 50
020317	03X6	gy	180	15	379	dr., c. 50
020309	04X1,5	gy	65	11	184	dr., c. 100, c. 50
020313	04X2,5	gy	104	11,5	256	dr.
020310	05X1,5	gy	80	11,5	208	dr., c. 100, c. 50
020314	05X2,5	gy	128	12	284	dr., c. 100, c. 50
020316	05X4	gy	200	13,5	444	dr., c. 100, c. 50
020318	05X6	gy	296	15,5	567	dr., c. 50
020319	05X10	gy	488	18	863	dr.
020320	05X16	gy	776	26	1347	dr.
020321	05X25	gy	1208		2023	dr.
020311	07X1,5	gy	108	11,9	248	dr., c. 50

NHXMH-J

standard	VDE 0250 T. 214
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_0	300 V
nominal voltage U	500 V
test voltage	2 kV
protective conductor	yes
conductor material	bare copper
insulation	XLPE 2XI1
maximum temperature at conductor	70 °C
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	70 °C

Application:
Low-smoke zero-halogen flame retardant building wire for installation on and under plaster, in cable ducts and conduits. For indoor use only.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
020278	01X1,5	gy	15	5,2	75	dr.
020279	01X2,5	gy	24	5,6	85	dr.
020232	01X4	gy	39	7	135	dr.
020280	01X6	gy	58	7,4	150	dr.
020281	01X10	gy	96	7,8	200	dr.
020233	01X16	gy	154	9,6	295	dr.
020282	01X25	gy	240	12	350	dr.
020185	03X1,5	gy	43	8,6	130	dr., c. 100, c. 50
020188	03X2,5	gy	72	9,5	165	dr., c. 100
020206	03X4	gy	115	10,7	235	dr.

NHXMH-J

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
020207	03X6	gy	173	12,3	320	dr.
020208	03X10	gy	288	14,8	480	dr.
020192	04X1,5	gy	58	9,2	150	dr.
020209	04X2,5	gy	96	10,2	200	dr.
020187	04X4	gy	154	12,2	300	dr.
020189	04X6	gy	230	13,2	395	dr.
020210	04X10	gy	384	15,8	595	dr.
020190	04X16	gy	614	20	935	dr.
020191	04X25	gy	960	24,5	1420	dr.
020211	04X35	gy	1344	27,5	1910	dr.
020214	05X1,5	gy	72	9,8	175	dr., c. 100
020195	05X2,5	gy	120	10,7	235	dr., c. 100, c. 50
020179	05X4	gy	192	13,2	350	dr.
020196	05X6	gy	288	14,8	480	dr.
020212	05X10	gy	480	17,4	710	dr.
020194	05X16	gy	768	22	1140	dr.
020277	05X25	gy	1200	28	1900	dr.
020197	07X1,5	gy	101	10,2	210	dr.
020213	07X2,5	gy	168	12,2	300	dr.
020229	10X1,5	gy	144	14,5	280	dr.
020230	12X1,5	gy	173	16,5	320	dr.
020231	24X1,5	gy	346	20	570	dr.
020296	24X2,5	gy	576	23	787	dr.

NHXMH-O

Application:
Low-smoke zero-halogen flame retardant building wire for installation on and under plaster, in cable ducts and conduits. For indoor use only.

standard	VDE 0250 T. 214
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
protective conductor	no
conductor material	bare copper
insulation	XLPE 2XI1
maximum temperature at conductor	70 °C
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
020198	01X1,5	gy	15	5,2	92	dr.
020199	01X2,5	gy	24	5,6	110	dr.
020200	01X4	gy	39	7,1	135	dr.
020201	01X6	gy	58	7,4	160	dr.
020202	01X10	gy	96	7,8	215	dr.
020203	01X16	gy	154	8,8	295	dr.
020204	02X1,5	gy	29	8,2	110	dr.
020205	02X2,5	gy	48	9	130	dr.
020234	04X10	gy	384	15,7	615	dr.
020235	04X16	gy	614	19,5	935	dr.
020236	04X25	gy	960	23,8	1420	dr.

(N)HXMH(St)-J

core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	bare copper
maximum temperature at conductor	70 °C
insulation	XLPE 2XI1
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24

Application:
Flame retardant building wire, for installation on and under plaster in dry and wet rooms, as well as in concrete. The cable is screened to limit the the propagation of electromagnetic field of the conductors. It is designed for application in EMC-sensible environments as hospitals, data processing facilities, laboratories but also in living rooms.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
020283	03X1,5/1,5	gy	48	9,5	168	dr.
020284	03X2,5/1,5	gy	77	9,8	209	dr.
020285	04X1,5/1,5	gy	63	9,6	192	dr.
020286	05X1,5/1,5	gy	77	10,3	220	dr.
020287	05X2,5/1,5	gy	125	11,3	282	dr.
020297	05X4/1,5	gy	206	15,1	393	dr.
020306	07X1,5/1,5	gy	107	12,1	310	dr.

NYIF-J

standard	VDE 0250-201
nominal voltage U_o	230 V
nominal voltage U	400 V
test voltage	2 kV
core identification	colours acc. VDE 0293 (HD308)
protective conductor	yes
conductor material	bare copper
insulation	PVC TI1
maximum temperature at conductor	70 °C
sheathing material	cross-linked rubber blend
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	70 °C
temperature, moved/ during installation	5 - 60 °C

Application:
For fixed installation in dry zones, on and under plaster. Whitout plaster sheet in cavities of ceilings and walls of not combustible building materials.

p/n	type	colour	CU kg/km	w x h ca. mm	weight ca. kg/km	packaging
020289	03X1,5	NT	43	19 x 4,4	115	c. 50
020292	04X1,5	NT	58	26 x 4,4	160	c. 50
020288	05X1,5	NT	72	33 x 4,4	205	c. 50
020291	03X2,5	NT	72	21,5 x 5,2	160	c. 100, c. 50
020290	05X2,5	NT	120	37 x 5,2	260	c. 50

Content

H05V-K

standard	VDE 0281-3
conductor construction	fine stranded, class 5
nominal voltage U_o	300 V
nominal voltage U	500 V
conductor material	bare copper
insulation	PVC TI2
maximum temperature at conductor	70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	70 °C

Application:
For internal wiring of switching boxes and other electrical appliances. For installation in closed conduits and tubes. Not for direct installation under plaster.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040221	01X0,5	bk	4,8	2,2	10	c. 100, barrel
040257	01X0,5	bu	4,8	2,2	10	c. 100
040219	01X0,5	lbu	4,8	2,2	10	c. 100, barrel
040220	01X0,5	dbu	4,8	2,2	10	c. 100, barrel
040253	01X0,5	wh	4,8	2,2	10	c. 100, barrel
040240	01X0,5	vt	4,8	2,2	10	c. 100, barrel
040217	01X0,5	ge/ye	4,8	2,2	10	c. 100, barrel
040216	01X0,5	rd	4,8	2,2	10	c. 100, barrel
040218	01X0,5	bn	4,8	2,2	10	c. 100, barrel
040241	01X0,5	gy	4,8	2,2	10	c. 100, barrel
040254	01X0,5	og	4,8	2,2	10	c. 100, barrel
040006	01X0,75	bk	7,2	2,3	12	dr., c. 100, barrel
040001	01X0,75	bu	7,2	2,3	12	c. 100
040222	01X0,75	lbu	7,2	2,3	12	c. 100, barrel
040223	01X0,75	dbu	7,2	2,3	12	dr., c. 100, barrel
040003	01X0,75	ge/ye	7,2	2,3	12	c. 100, c. 50, barrel
040007	01X0,75	wh	7,2	2,3	12	c. 100, barrel
040004	01X0,75	gy	7,2	2,3	12	dr., c. 100, barrel
040005	01X0,75	rd	7,2	2,3	12	dr., c. 100, barrel
040002	01X0,75	bn	7,2	2,3	12	dr., c. 100, barrel
040191	01X0,75	vt	7,2	2,3	12	c. 100, barrel
040190	01X0,75	og	7,2	2,3	12	c. 100, barrel
040702	01X0,75	dbu/wh	7,2	2,7	12	c. 100
040013	01X1	bk	9,6	2,4	14	c. 100, barrel
040010	01X1	ge/ye	9,6	2,4	14	dr., c. 100, barrel
040008	01X1	bu	9,6	2,4	14	c. 100, barrel
040224	01X1	lbu	9,6	2,4	14	c. 100, barrel
040225	01X1	dbu	9,6	2,4	14	c. 100, barrel
040014	01X1	wh	9,6	2,4	14	c. 100, barrel
040011	01X1	gy	9,6	2,4	14	c. 100, barrel
040012	01X1	rd	9,6	2,4	14	c. 100, c. 50, barrel
040009	01X1	bn	9,6	2,4	14	c. 100, barrel
040188	01X1	vt	9,6	2,4	14	c. 100, barrel
040193	01X1	og	9,6	2,4	14	c. 100, barrel
040411	01X1	gn	9,6	2,4	14	dr., c. 100
040697	01X1	bu/wh	9,6	2,4	14	c. 100
040701	01X1	dbu/wh	9,6	2,8	14	c. 100
040703	01X1	ye	9,6	2,8	14	c. 100
040727	01X0,75	bu/wh	7,2	2,7	12	c. 100
040728	01X0,75	rd/wh	7,2	2,7	12	c. 100

H05V-U

Application:
For internal wiring of switching boxes and other electrical appliances. For installation in closed conduits and tubes. Not for direct installation under plaster.

standard	VDE 0281-3
conductor construction	solid, class 1
nominal voltage U_o	300 V
nominal voltage U	500 V
conductor material	bare copper
insulation	PVC TI2
maximum temperature at conductor	70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040020	01X0,75	bk	7,2	2,1	10	c. 100
040015	01X0,75	bu	7,2	2,1	10	c. 100
040748	01X0,75	lbu	7,2	2,1	10	c. 100
040749	01X0,75	dbu	7,2	2,1	10	c. 100
040021	01X0,75	wh	7,2	2,1	10	c. 100
040017	01X0,75	ge/ye	7,2	2,1	10	c. 100
040016	01X0,75	bn	7,2	2,1	10	c. 100
040018	01X0,75	gy	7,2	2,1	10	c. 100
040019	01X0,75	rd	7,2	2,1	10	c. 100
040027	01X1	bk	9,6	2,3	14	c. 100
040024	01X1	ge/ye	9,6	2,3	14	c. 100
040022	01X1	bu	9,6	2,3	14	c. 100
040750	01X1	lbu	9,6	2,3	14	c. 100
040751	01X1	dbu	9,6	2,3	14	c. 100
040025	01X1	gy	9,6	2,3	14	c. 100
040026	01X1	rd	9,6	2,3	14	c. 100
040028	01X1	wh	9,6	2,3	14	c. 100
040023	01X1	bn	9,6	2,3	14	c. 100
040258	01X1	vt	9,6	2,3	14	c. 100

H07V-K

Application:
For laying in pipes on top of or under plaster and in closed installation ducts and for internal wiring of machinery, switchgear and distributor systems. The cable is not suitable for direct laying under plaster.

standard	VDE 0281-3
conductor construction	fine stranded, class 5
nominal voltage U_o	450 V
nominal voltage U	750 V
test voltage	2500 V
conductor material	bare copper
insulation	PVC TI2
maximum temperature at conductor	70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
temperature, moved/ during installation	5 - 70 °C

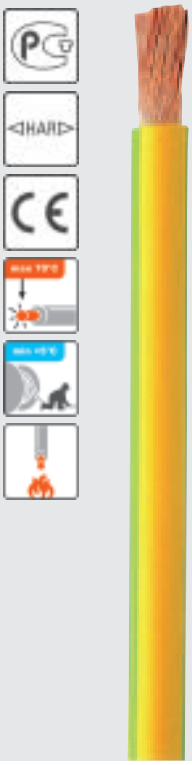
p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040035	01X1,5	bk	14,4	2,8	20	c. 100, c. 50, barrel
040031	01X1,5	ge/ye	14,4	2,8	20	c. 100, barrel
040226	01X1,5	lbu	14,4	2,8	20	c. 100, barrel
040030	01X1,5	bn	14,4	2,8	20	c. 100, barrel
040033	01X1,5	gy	14,4	2,8	20	c. 100, barrel
040036	01X1,5	vt	14,4	2,8	20	c. 100, barrel
040034	01X1,5	rd	14,4	2,8	20	c. 100, barrel
040037	01X1,5	wh	14,4	2,8	20	c. 100, barrel
040195	01X1,5	og	14,4	2,8	20	c. 100, barrel
040194	01X1,5	TR	14,4	2,8	20	c. 100, barrel
040212	01X1,5	dbu	14,4	2,8	20	c. 100, barrel

H07V-K

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040374	01X1,5	ye	14,4	2,8	21	c. 100
040029	01X1,5	bu	14,4	2,8	20	c. 100
040058	01X2,5	bk	24	3,4	32	dr., c. 100, barrel
040054	01X2,5	ge/ye	24	3,4	32	c. 100, barrel
040227	01X2,5	lbu	24	3,4	32	c. 100, barrel
040052	01X2,5	bn	24	3,4	32	c. 100, barrel
040056	01X2,5	gy	24	3,4	32	c. 100, barrel
040196	01X2,5	vt	24	3,4	32	c. 100, barrel
040057	01X2,5	rd	24	3,4	32	c. 100, barrel
040059	01X2,5	wh	24	3,4	32	c. 100, barrel
040213	01X2,5	dbu	24	3,4	32	c. 100, barrel
040051	01X2,5	bu	24	3,4	32	c. 100
040450	01X2,5 VZ	bn	24	3,4	32	c. 100, barrel
040451	01X2,5 VZ	lbu	24	3,4	32	dr., c. 100, barrel
040067	01X4	bk	38	3,9	46	c. 100, barrel
040066	01X4	ge/ye	38	3,9	46	c. 100, barrel
040228	01X4	lbu	38	3,9	46	c. 100, barrel
040065	01X4	bn	38	3,9	46	c. 100, barrel
040197	01X4	rd	38	3,9	46	c. 100, barrel
040251	01X4	gy	38	3,9	46	c. 100, barrel
040229	01X4	dbu	38	3,9	46	c. 100, barrel
040256	01X4	bu	38	3,9	46	c. 100
040704	01X4	vt	38,4	4,8	46	c. 100, dr.
040074	01X6	bk	58	4,5	65	c. 100, barrel
040073	01X6	ge/ye	58	4,5	65	c. 100, c. 50, barrel
040230	01X6	lbu	58	4,5	65	c. 100, barrel
040071	01X6	bn	58	4,5	65	c. 100, barrel
040198	01X6	rd	58	4,5	65	c. 100, barrel
040252	01X6	gy	58	4,5	65	c. 100, barrel
040231	01X6	dbu	58	4,5	65	c. 100, barrel
040380	01X6	wh	58	4,5	65	c. 100
040663	01X6	og	58	4,5	65	c. 100
040705	01X6	vt	58	5,3	65	c. 100, dr.
040042	01X10	bk	96	5,8	115	c. 100
040040	01X10	ge/ye	96	5,8	115	c. 100, dr.
040232	01X10	lbu	96	5,8	115	c. 100
040039	01X10	bn	96	5,8	115	c. 100
040041	01X10	rd	96	5,8	115	c. 100
040233	01X10	dbu	96	5,8	115	c. 100
040049	01X16	bk	154	7	170	dr., c. 100, c. 50
040047	01X16	ge/ye	154	7	170	dr., c. 100
040234	01X16	lbu	154	7	170	c. 100
040235	01X16	dbu	154	7	170	c. 100
040046	01X16	bn	154	7	170	c. 100, dr.
040048	01X16	rd	154	7	170	c. 100
040349	01X16	gy	154	7	170	dr., c. 100
040061	01X25	bk	240	8,5	260	dr., c. 100, c. 50
040060	01X25	ge/ye	240	8,5	260	dr., c. 50
040383	01X25	bn	240	8,5	260	dr., c. 100
040199	01X25	bu	240	8,5	260	dr.
040752	01X25	lbu	240	8,5	260	dr.
040753	01X25	dbu	240	8,5	260	dr.
040063	01X35	bk	336	9,8	360	dr., c. 100, c. 50
040062	01X35	ge/ye	336	9,8	360	dr., c. 50
040200	01X35	bu	336	9,8	360	dr., c. 50
040754	01X35	lbu	336	9,8	360	dr.
040755	01X35	dbu	336	9,8	360	dr.
040387	01X35	bn	336	9,8	360	dr., c. 100
040696	01X35	wh	336	9,8	360	dr., c. 100
040069	01X50	bk	480	11,6	515	dr., c. 50
040068	01X50	ge/ye	480	11,6	515	dr., c. 50
040075	01X70	bk	672	13,3	710	dr., c. 50
040176	01X70	ge/ye	672	13,3	710	dr., c. 50
040076	01X95	bk	912	15,3	940	dr., c. 50
040185	01X95	ge/ye	912	15,3	940	dr., c. 50
040043	01X120	bk	1152	16,9	1180	dr.

H07V-K

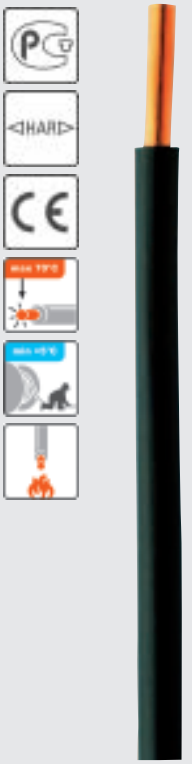
p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040186	01X120	ge/ye	1152	16,9	1180	dr.
040044	01X150	bk	1440	18,8	1600	dr.
040700	01X150	ge/ye	1440	18,8	1600	dr.
040050	01X185	bk	1776	21	2100	dr.
040351	01X185	ge/ye	1776	21	2100	dr.
040238	01X240	bk	2304	24	3015	dr.
040342	01X240	ge/ye	2304	24	3015	dr.



H07V-U

Application:
For laying in pipes on top of or under plaster and in closed installation ducts and for internal wiring of machinery, switchgear and distributor systems. The cable is not suitable for direct laying under plaster.

standard	VDE 0281-3
conductor construction	solid, class 1
nominal voltage U_o	450 V
nominal voltage U	750 V
test voltage	2500 V
conductor material	bare copper
insulation	PVC TI2
maximum temperature at conductor	70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
temperature, moved/ during installation	5 - 70 °C



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040100	01X1,5	bk	14,4	2,7	20	c. 100, barrel
040096	01X1,5	ge/ye	14,4	2,7	20	c. 100
040236	01X1,5	lbu	14,4	2,7	20	c. 100
040095	01X1,5	bn	14,4	2,7	20	c. 100
040098	01X1,5	gy	14,4	2,7	20	c. 100
040101	01X1,5	vt	14,4	2,7	20	c. 100
040099	01X1,5	rd	14,4	2,7	20	c. 100
040102	01X1,5	wh	14,4	2,7	20	c. 100
040214	01X1,5	dbu	14,4	2,7	20	c. 100
040118	01X2,5	bk	24	3,3	31	dr., c. 100
040114	01X2,5	ge/ye	24	3,3	31	dr., c. 100
040237	01X2,5	lbu	24	3,3	31	c. 100
040112	01X2,5	bn	24	3,3	31	dr., c. 100
040116	01X2,5	gy	24	3,3	31	c. 100
040119	01X2,5	vt	24	3,3	31	c. 100
040117	01X2,5	rd	24	3,3	31	c. 100
040120	01X2,5	wh	24	3,3	31	c. 100
040215	01X2,5	dbu	24	3,3	31	c. 100
040111	01X2,5	bu	24	3,3	31	dr., c. 100

H07V-U

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040124	01X4	bk	38	3,8	46	c. 100
040122	01X4	ge/ye	38	3,8	46	c. 100, c. 50
040761	01X4	lbu	38	3,8	46	c. 100
040762	01X4	dbu	38	3,8	46	c. 100
040121	01X4	bu	38	3,8	46	c. 100
040181	01X4	bn	38	3,8	46	c. 100
040123	01X4	gy	38	3,8	46	c. 100
040249	01X4	rd	38	3,8	46	c. 100
040128	01X6	bk	58	4,3	65	c. 100
040126	01X6	ge/ye	58	4,3	65	c. 100
040177	01X6	bu	58	4,3	65	c. 100
040763	01X6	lbu	58	4,3	65	c. 100, dr.
040764	01X6	dbu	58	4,3	65	c. 100
040125	01X6	bn	58	4,3	65	c. 100
040107	01X10	bk	96	5,5	110	c. 100
040105	01X10	ge/ye	96	5,5	110	c. 100
040103	01X10	bu	96	5,5	110	c. 100
040104	01X10	bn	96	5,5	110	c. 100
040765	01X10	lbu	96	5,5	110	c. 100
040766	01X10	dbu	96	5,5	110	c. 100
040429	01X16	ge/ye	154	6,4	170	dr., c. 100

H07V-R

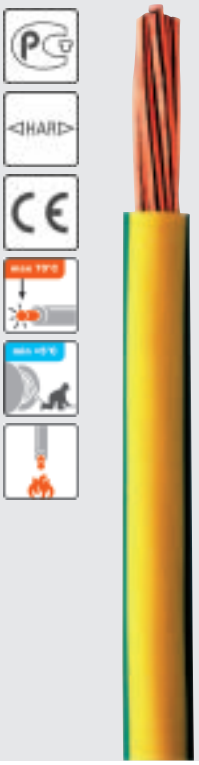
standard	VDE 0281-3
conductor construction	stranded, class 2
nominal voltage U_o	450 V
nominal voltage U	750 V
test voltage	2500 V
conductor material	bare copper
insulation	PVC TI2
maximum temperature at conductor	70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
temperature, moved/ during installation	5 - 70 °C

Application:
For laying in pipes on top of or under plaster and in closed installation ducts and for internal wiring of machinery, switchgear and distributor systems. The cable is not suitable for direct laying under plaster.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040082	01X16	bk	154	6,8	175	dr., c. 100
040081	01X16	ge/ye	154	6,8	175	dr., c. 100
040205	01X16	rd	154	6,8	175	dr., c. 100
040085	01X25	bk	240	8,5	275	dr., c. 100, c. 50
040084	01X25	ge/ye	240	8,5	275	dr., c. 100, c. 50
040756	01X25	lbu	240	8,5	275	dr.
040757	01X25	dbu	240	8,5	275	dr.
040211	01X25	rd	240	8,5	275	dr.
040087	01X35	bk	336	9,5	370	dr., c. 100, c. 50
040086	01X35	ge/ye	336	9,5	370	dr., c. 100, c. 50
040239	01X35	bu	336	9,5	370	dr.
040758	01X35	lbu	336	9,5	370	dr.
040759	01X35	dbu	336	9,5	370	dr.
040207	01X35	rd	336	9,5	370	dr.
040089	01X50	bk	480	11,2	500	dr.
040088	01X50	ge/ye	480	11,2	500	dr., c. 50
040208	01X50	rd	480	11,2	500	dr.
040091	01X70	bk	672	12,7	710	dr.
040090	01X70	ge/ye	672	12,7	710	dr.

H07V-R

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040209	01X70	rd	672	12,7	710	dr.
040093	01X95	bk	912	14,8	970	dr.
040092	01X95	ge/ye	912	14,8	970	dr.
040210	01X95	rd	912	14,8	970	dr.
040078	01X120	bk	1152	16,3	1200	dr.
040077	01X120	ge/ye	1152	16,3	1200	dr.
040080	01X150	bk	1440	18,2	1470	dr.
040079	01X150	ge/ye	1440	18,2	1470	dr.
040300	01X185	ge/ye	1776		1806	dr.
040594	01X300	ge/ye	2880	25,5	2929	dr.



H03VV-F

Application:
For the connection of light electrical appliances (table and standing lamps, kitchen appliances, domestic vacuum cleaners, office appliances, radios etc.) at low mechanical stresses in households, kitchens and offices. Not for the connection of cooking and heating appliances or commercial electric tools, not for outdoor use, in agricultural or commercial businesses.

standard	VDE 0281-5
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U	300 V
nominal voltage U_o	300 V
protective conductor	yes
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC TI2
maximum temperature at conductor	60 °C
sheathing material	PVC TM2
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	+50 °C
bending radius, fixed installation	3 x D_A
bending radius, moved application	5 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030004	02X0,75	bk	14,4	5,3	46	c. 100, c. 50
030005	02X0,75	wh	14,4	5,3	46	dr., c. 100, c. 50
031047	02X0,75	bn	14,4	5,3	46	c. 100, c. 50
030006	03G0,75	bk	21,6	5,5	55	c. 100, c. 50
030007	03G0,75	wh	21,6	5,5	55	dr., c. 100, c. 50
031581	04G0,75	bk	29	6,1	69	dr., c. 100, c. 50
030009	04G0,75	wh	29	6,1	69	c. 100, c. 50

H05VV-F

standard	VDE 0281-5
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC TI2
maximum temperature at conductor	60 °C
sheathing material	PVC TM2
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	+50 °C
bending radius, fixed installation	3 x D_A
bending radius, moved application	5 x D_A

Application:
For the connection of light electrical appliances (table and standing lamps, kitchen appliances, domestic vacuum cleaners, office appliances, radios etc.) at low mechanical stresses in households, kitchens and offices. Not for the connection of cooking and heating appliances or commercial electric tools, not for outdoor use, in agricultural or commercial businesses.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031050	02X0,75	wh	14,4	5,8	52	c. 100, c. 50
031610	02X0,75	lbu	14,4		52	dr., c. 100
030724	02X1	bk	19	6,5	65	c. 100, c. 50, dr.
030012	02X1	wh	19	6,5	65	c. 100, c. 50
030013	02X1,5	bk	29	7,5	90	dr., c. 100, c. 50
030014	02X1,5	wh	29	7,5	90	dr., c. 100, c. 50
030039	02X2,5	bk	48	9	115	dr., c. 100, c. 50
030015	02X2,5	wh	48	9	115	c. 100, c. 50
030016	03G0,75	bk	21,6	6,5	70	c. 100, c. 50, c. 200
030017	03G0,75	wh	21,6	6,5	70	c. 100, c. 50, c. 200
031052	03G0,75	gy	21,6	6,5	70	c. 100, c. 50
030019	03G1	wh	29	7	80	dr., c. 100, c. 50, c. 300
030018	03G1	bk	29	7	80	dr., c. 100, c. 50, c. 300
030743	03G1	bn	29	7	80	dr., c. 100, c. 50
030021	03G1,5	wh	43	8,2	115	dr., c. 100, c. 50
030020	03G1,5	bk	43	8,2	115	dr., c. 100, c. 50
030041	03G1,5	bn	43	8,2	115	c. 100, c. 50
030605	03G1,5	og	43	8,2	115	c. 100, c. 50
031051	03G1,5	gy	43	8,2	115	c. 100, c. 50
034506	03G1,5	ye	43,2	8,2	115	c. 100
030023	03G2,5	wh	72	9,8	175	dr., c. 100, c. 50
030022	03G2,5	bk	72	9,8	175	c. 100, c. 50
031053	04G0,75	bk	29	6,7	75	c. 100, c. 50
031054	04G0,75	wh	29	6,7	75	c. 100, c. 50
031055	04G1	bk	38	7,2	92	dr., c. 100, c. 50
034677	04G1	wh	38,4	7,2	92	dr.
030024	04G1,5	bk	58	9,2	145	dr., c. 100, c. 50
030025	04G1,5	wh	58	9,2	145	c. 100, c. 50
030027	04G2,5	wh	96	10,7	210	c. 100, c. 50
030026	04G2,5	bk	96	10,7	210	c. 100, c. 50
031058	05G0,75	bk	36	7,5	96	c. 100, c. 50
031057	05G0,75	wh	36	7,5	96	c. 100, c. 50
031061	05G1	bk	48	8	113	c. 100, c. 50
031060	05G1	wh	48	8	113	c. 100, c. 50
030029	05G1,5	wh	72	10,2	175	dr., c. 100, c. 50
030028	05G1,5	bk	72	10,2	175	dr., c. 100, c. 50
031059	05G1,5	bn	72	10,2	175	c. 100, c. 50
030031	05G2,5	wh	120	13	260	dr., c. 100, c. 50
030030	05G2,5	bk	120	13	260	c. 100, c. 50

X03VH-H

Application:
Connecting cable for lightning electrical appliances, radio appliances, table lamps, watches etc. for light duty mechanical appliances in households, kitchen and office rooms, as far as this is permitted in the relevant appliances regulations.

core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	300 V
nominal voltage U	300 V
conductor material	bare copper
conductor construction	fine stranded class 6
insulation	PVC
bending radius, fixed installation	6 x D_A
flame retardant	VDE 0482-332-1-2/IEC 60332-1
sheathing material	PVC

p/n	type	colour	CU kg/km	w x h ca. mm	weight ca. kg/km	packaging
033520	02X0,75	bn	14,4	3,1 x 6,3	26	dr., c. 100
033521	02X0,75	bk	14,4	3,1 x 6,3	26	c. 100
033522	02X0,75	wh	14,4	3,1 x 6,3	26	c. 100

H03VVH2-F

Application:
For the connection of light electrical appliances (table and standing lamps, kitchen appliances, domestic vacuum cleaners, office appliances, radios etc.) at low mechanical stresses in households, kitchens and offices. Not for the connection of cooking and heating appliances or commercial electric tools, not for outdoor use, in agricultural or commercial businesses.

standard	VDE 0281-5
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	300 V
nominal voltage U	300 V
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	60 °C
insulation	PVC
sheathing material	PVC
max. operating temperature, fixed	+5 - +40 °C

p/n	type	colour	CU kg/km	weight ca. kg/km	packaging
031049	02X0,75	bk	14,4	39	dr., c. 100, c. 50
030011	02X0,75	wh	14,4	39	c. 100, c. 50

H05RR-F

standard	VDE 0282-4
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	300 V
nominal voltage U	500 V
version	round
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) EI4
maximum temperature at conductor	60 °C
sheathing material	rubber (CR) EM2
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-25 - 60 °C

Application:
For connection of electrical appliances (vacuum cleaners, kitchen appliances, soldering iron etc.) with low mechanical stress in households, kitchens, offices. Not for permanent outdoor use.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050019	02X0,75	bk	14,4	6,2	60	dr., c. 100, c. 50
050020	02X1	bk	19	6,8	70	dr., c. 100, c. 50
050021	02X1,5	bk	29	8,2	100	dr., c. 100, c. 50
050022	02X2,5	bk	48	9,7	150	dr., c. 100, c. 50
050023	03G0,75	bk	21,6	6,6	80	dr., c. 100, c. 50
050024	03G1	bk	29	7,2	90	dr., c. 100, c. 50
050025	03G1,5	bk	43	8,8	130	dr., c. 100, c. 50
050026	03G2,5	bk	72	10,2	180	dr., c. 100, c. 50
050027	04G0,75	bk	29	7,2	90	dr., c. 100, c. 50
050100	04G1	bk	38	7,8	110	dr., c. 100, c. 50
050028	04G1,5	bk	58	9,8	170	dr., c. 100, c. 50
050029	04G2,5	bk	96	11,2	230	dr., c. 100, c. 50
050030	05G1,5	bk	72	10,7	190	dr., c. 100, c. 50
050031	05G2,5	bk	120	12,5	280	dr., c. 100, c. 50
050897	05G0,75	bk	36	9,9	113	dr.

Roller blind cable

core identification	green-yellow, blue, brown, black
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	60 °C
max. operating temperature, fixed	-25 - +60 °C
temperature, moved/ during installation	-25 - +60 °C
for outdoor use	yes
bending radius, moved application	15 x D_A
bending radius, fixed installation	7,5 x D_A
flame retardant	VDE 0482-332-1-2/IEC 60332-1

Application:
For the fixed and flexible connection of electrical appliances at low mechanical stresses in dry, damp and wet areas and outdoors. Thanks to the wire designation and the UV-resistant outer sheath, the cables are particularly suitable for the connection of roller blind and Venetian blind drives.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050820	S05RR-F 4G0,75	bk	29	7,6	76	dr., c. 100
050938	S05ZZ-F 4G0,75	bk	29	7,8	76	dr.
050920	A05RN-F 4G0,75	bk	29	7,6	76	c. 100, dr.
050322	H05BQ-F 4G0,75	og	29	7,6	76	dr., c. 100, c. 50

H07RN-F

Application:
For use at medium mechanical stress in dry, wet and damp locations, as well as in free air. Also for fixed installation on plaster or machines. The cable is resistant to oil, uv-radiation and ozon.

standard	VDE 0282-4
nominal voltage U_0	450 V
nominal voltage U	750 V
test voltage	2,5 kV
core identification	colours acc. VDE 0293 (HD308)
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) EI4
maximum temperature at conductor	80 °C
sheathing material	rubber (CR) EM5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-25 - +80 °C
temperature, moved/ during installation	-25 - +80 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050214	01X1,5	bk	14,4	5,9	50	dr.
050358	01X2,5	bk	24	6,6	80	dr.
050233	01X4	bk	38	7,4	100	dr., c. 100
050205	01X6	bk	58	8,1	130	dr.
050033	01X10	bk	96	9,7	220	dr.
050036	01X16	bk	154	11	280	dr.
050037	01X25	bk	240	12,9	400	dr.
050038	01X35	bk	336	14,6	520	dr.
050039	01X50	bk	480	16,8	720	dr.
050041	01X70	bk	672	18,9	940	dr.
050042	01X95	bk	912	21,1	1220	dr.
050034	01X120	bk	1152	23,1	1510	dr.
050035	01X150	bk	1440	25,6	1900	dr.
050111	01X185	bk	1776	27,9	2300	dr.
050113	01X240	bk	2304	31	2900	dr.
050195	01X300	bk	2880	34,1	3600	dr.
050408	01X400	bk	3840	38,5	4800	dr.
050045	03G1	bk	29	8,4	125	dr., c. 100, c. 50
050046	03G1,5	bk	43	9,4	155	dr., c. 100, c. 50
050048	03G2,5	bk	72	11,1	235	dr., c. 100, c. 50
050114	03G4	bk	115	12,9	310	dr.
050115	03G6	bk	173	14,3	400	dr.
050101	03G10	bk	288	19,3	810	dr.
050102	03G16	bk	461	22,1	1000	dr.
050240	03G25	bk	720	27	1250	dr.
050309	03G35	bk	1008	29,6	1850	dr.
050185	03G50	bk	1440	36	3790	dr.
050375	04G1	bk	38	9,5	129	dr.
050050	04G1,5	bk	58	10,4	190	dr., c. 100, c. 50
050054	04G2,5	bk	96	12,3	280	dr., c. 100, c. 50
050057	04G4	bk	154	14,2	380	dr., c. 100, c. 50
050059	04G6	bk	230	15,9	510	dr., c. 50
050051	04G10	bk	384	21,3	940	dr., c. 50
050053	04G16	bk	614	24,2	1250	dr., c. 50
050055	04G25	bk	960	29,3	1850	dr.
050056	04G35	bk	1344	33	2310	dr.
050058	04G50	bk	1920	38,2	3160	dr.
050060	04G70	bk	2688	43,2	4250	dr.
050061	04G95	bk	3648	49	5590	dr.
050052	04G120	bk	4608	53,6	6790	dr.
050187	04G150	bk	5760	58,7	8230	dr.
050196	04G185	bk	7104	65	9700	dr.
050837	04G240	bk	9216	74	13120	dr.
050062	05G1,5	bk	72	11,5	230	dr., c. 100, c. 50
050065	05G2,5	bk	120	13,5	340	dr., c. 100, c. 50
050067	05G4	bk	192	15,9	470	dr., c. 100, c. 50
050068	05G6	bk	288	17,9	630	dr., c. 50

H07RN-F

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050063	05G10	bk	480	22,3	1150	dr.
050064	05G16	bk	768	26,9	1540	dr.
050066	05G25	bk	1200	32,5	2200	dr.
050160	05G35	bk	1680	38	2700	dr.
050217	05G50	bk	2400	44,5	3950	dr.
050319	05G70	bk	3360	47	4893	dr.
050352	05G95	bk	4560	58	6600	dr.
050858	05G120	bk	5760	61	8051	dr.
050216	07G1,5	bk	101	14,5	370	dr., c. 100, c. 50
050219	07G2,5	bk	168	17	520	dr.
050215	12G1,5	bk	175	18,3	450	dr.
050204	12G2,5	bk	288	19	750	dr.
050218	18G2,5	bk	432	26	1032	dr.
050220	19G1,5	bk	274	23,5	800	dr.
050242	19G2,5	bk	456	26,6	1068	dr.
050243	24G1,5	bk	346	25,5	1000	dr.
050202	24G2,5	bk	576	31,5	1380	dr.
050750	25G1,5	bk	360	26	889	dr.
050861	27G1,5	bk	390		973	dr.
050862	27G2,5	bk	648		1365	dr.
050651	37G1,5	bk	533	28	1780	dr.
050652	37G2,5	bk	888	34	1940	dr.
050170	02X1	bk	19	7,8	100	dr., c. 100
050043	02X1,5	bk	29	8,7	130	dr., c. 100, c. 50
050044	02X2,5	bk	48	10,4	195	dr., c. 100, c. 50
050228	02X4	bk	77	12	280	dr.
050229	02X6	bk	115	13,3	400	dr.
050880	03X1	bk	29	8,4	90	dr.
050881	03X1,5	bk	43	9,4	155	dr.
050882	03X2,5	bk	72	11,1	235	dr.
050883	03X6	bk	173	14,3	495	dr.
050884	03X10	bk	288	19,3	730	dr.
050885	03X16	bk	461	22,1	1020	dr.
050886	03X25	bk	720	27	1250	dr.
050887	03X35	bk	1008	29,6	1733	dr.
050888	04X10	bk	384	21,3	940	dr.
050889	04X16	bk	614,4	24,2	1250	dr.
050890	04X25	bk	960	29,3	1850	dr.

H07BN4-F

Application:
For installation in dry and wet rooms as well as in open air at medium mechanical stress. For fixed and flexible connection of electrical tools and aplliances. Also suitable for application in wind power generators at medium stress.

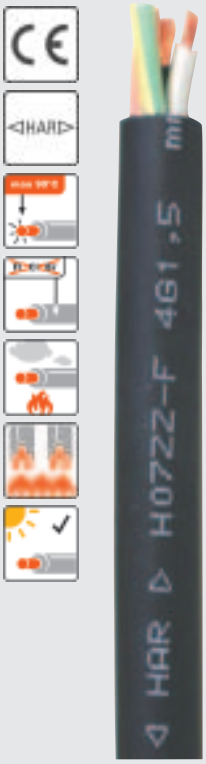
standard	VDE 0282-12
core identification	colours acc. VDE 0293 (HD308)
protective conductor	yes
nominal voltage U_o	450 V
nominal voltage U	750 V
nominal voltage (DC)	1238 V
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	rubber EI7
maximum temperature at conductor	90 °C
sheathing material	rubber EM7
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	yes
max. operating temperature, fixed	-50 - +75 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050898	01X95	bk	912	24,5	1160	dr.
050835	01X120	bk	1152	26,5	1430	dr.
050906	01X150	bk	1440	29,1	1740	dr.
050817	01X185	bk	1776	35	2160	dr.
050818	01X240	bk	2304	35,1	2730	dr.
050763	01X300	bk	2880	38,5	3480	dr.
050907	01X400	bk	3840	43,1	4510	dr.
050902	04G35	bk	1344	33	2310	dr.
050819	05G25	bk	1200	37,1	2070	dr.
050911	05G35	bk	1680	41,1	2715	dr.

H07ZZ-F

Application:
These cable are used for installation inside of buildings and the temporary application in free air. Particularly designed for applications, where in the case of fire only small quantities of smoke and corrosive gases are allowed.

standard	VDE 0282-13
core identification	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers
nominal voltage U_o	450 V
nominal voltage U	750 V
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	rubber EI8
maximum temperature at conductor	90 °C
sheathing material	rubber (EPR) EM8
flame retardant	VDE 0482-266-2-4/IEC 60332-3-24
temperature, moved/ during installation	50 °C



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050673	02X1	bk	19	9,2	95	dr.
050674	02X1,5	bk	29	10,2	119	dr.
050675	02X2,5	bk	48	12,2	172	dr.
050680	02X25	bk	480	29,2	1154	dr.
050681	03G1	bk	29	10,1	115	dr.
050682	03G1,5	bk	43	11,9	144	dr., c. 100
050683	03G2,5	bk	72	14	211	dr.
050698	04G1	bk	38	11,1	141	dr.
050699	04G1,5	bk	58	12,9	176	dr.

H07ZZ-F

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050700	04G2,5	bk	96	15,3	235	dr.
050701	04G4	bk	154	17,7	365	dr.
050702	04G6	bk	230	19,8	501	dr.
050703	04G10	bk	384	26,5	872	dr.
050704	04G16	bk	614	30,1	1194	dr.
050705	04G25	bk	960	36,6	1822	dr.
050706	04G35	bk	1344	41,1	2307	dr.
050707	04G50	bk	1920	47,5	3253	dr.
050708	04G70	bk	2688	53,8	4130	dr.
050709	04G95	bk	3648	60,9	5720	dr.
050710	04G120	bk	4608	65,8	6965	dr.
050711	04G150	bk	5760	72,7	8644	dr.
050712	04G185	bk	7104	80,1	10598	dr.
050713	04G240	bk	9216	86,4	12100	dr.
050715	05G1	bk	48	12,2	170	dr.
050716	05G1,5	bk	72	14,2	214	dr.
050717	05G2,5	bk	120	16,9	316	dr.
050718	05G4	bk	192	19,8	448	dr.
050719	05G6	bk	288	22,1	607	dr.
050720	05G10	bk	480	29,1	1075	dr.
050721	05G16	bk	768	33,3	1480	dr.
050722	05G25	bk	1200	38,4	2255	dr.
051002	05G35	bk	1680		2700	dr.
050726	07G1,5	bk	101	19,1	303	dr.
050727	07G2,5	bk	168	21,5	448	dr.
050728	12G1,5	bk	173	22,4	496	dr.
050729	12G2,5	bk	288	26,2	724	dr.
050865	14G2,5	bk	336	25	860	dr.
050731	18G1,5	bk	259	26,3	702	dr.
050732	18G2,5	bk	432	29,3	1045	dr.
050734	24G1,5	bk	346	30,7	935	dr.
050735	24G2,5	bk	576	34,6	1325	dr.
050863	37G1,5	bk	533	36,2	1317	dr.
050864	52G1,5	bk	749	43,1	1766	dr.

H01N2-D cables with normal flexibility

standard	VDE 0282-6
nominal voltage U_o	100 V
nominal voltage U	100 V
protective conductor	no
test voltage	1 kV
conductor material	bare copper
sheathing material	rubber (CR) EM5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-20 - 85 °C
maximum temperature at conductor	85 °C
oil resistant acc. to EN 60811-2-1	yes

Application:
In dry, damp and wet rooms as welding cable for machine or hand operation.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
060008	01X16	bk	154	9,2	220	dr., c. 50
060009	01X25	bk	240	10,5	300	dr., c. 100, c. 50
060010	01X35	bk	336	12,1	410	dr., c. 50
060011	01X50	bk	480	13,5	560	dr., c. 50
060012	01X70	bk	672	16,2	770	dr., c. 50
060013	01X95	bk	912	18,5	1050	dr.
060014	01X120	bk	1152	20,1	1290	dr.

H01N2-D cables with normal flexibility

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
060016	01X150	bk	1440	22,5	1590	dr.
060018	01X185	bk	1776	24,4	1916	dr.
060029	01X240	bk	2304	29,5	2540	dr.

NSSHöu-J

Application:
At high mechanical stresses for the connection of heavy-duty underground mining, industrial and construction equipment, in dry and damp areas, and outdoors. The cable is largely flame-resistant and oil-proof.

standard	VDE 0250 T. 812
protective conductor	yes
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	3 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) 3GI3, halogen-free
maximum temperature at conductor	90 °C
sheathing material	rubber (CR) 5GM5
oil resistant acc. to EN 60811-2-1	yes
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-40 - +80 °C
temperature, moved/ during installation	-20 - +80 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050128	03X1,5	ye	43	12,5	200	dr.
050129	03X2,5	ye	72	13,2	260	dr.
050130	03X4	ye	115	16,2	380	dr.
050140	03X70/35	ye	2352	44,6	4460	dr.
050141	03X95/50	ye	3216	53,1	5910	dr.
050212	03X120/70	ye	4128	54	7300	dr.
050891	03X150/70	ye	4992	73,1	7119	dr.
050131	04X1,5	ye	58	12,6	230	dr.
050132	04X2,5	ye	96	15,9	350	dr.
050133	04X4	ye	154	17,5	450	dr.
050134	04X6	ye	230	18,8	560	dr.
050135	04X10	ye	384	23	860	dr.

NSSHöu-J

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050136	04X16	ye	614	27,3	1350	dr.
050137	04X25	ye	960	34,5	2010	dr.
050138	04X35	ye	1344	36,4	2590	dr.
050139	04X50	ye	1920	41,5	3660	dr.
050239	04X70	ye	2688	46,5	4605	dr.
050234	04X95	ye	3648	56,8	6400	dr.
050235	04X120	ye	4608	65,5	7705	dr.
050236	04X150	ye	5760	73,2	8200	dr.
050468	04X185	ye	7104	76,2	10604	dr.
050142	05X1,5	ye	72	15,1	255	dr.
050143	05X2,5	ye	120	17,2	385	dr.
050144	05X4	ye	192	19,4	560	dr.
050145	05X6	ye	288	21,4	670	dr.
050146	05X10	ye	480	23,5	1000	dr.
050147	05X16	ye	768	30,1	1570	dr.
050148	05X25	ye	1200	35,5	2340	dr.
050237	05X35	ye	1680	44,1	3400	dr.
050149	07X1,5	ye	101	16,9	410	dr.
050150	07X2,5	ye	168	19,5	500	dr.
050151	10X1,5	ye	144	20,5	545	dr.
050764	11X1,5	ye	158	22,1	600	dr.
050152	12X2,5	ye	288	21,6	770	dr., c. 100, c. 50
050153	18X2,5	ye	432	27,8	1160	dr.

NSSHöu-O

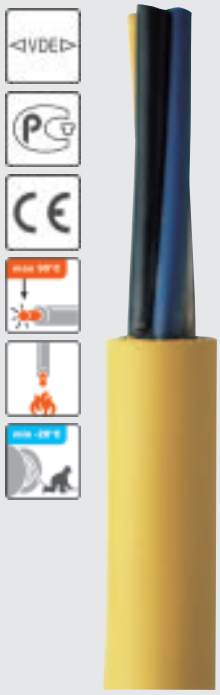
standard	VDE 0250 T. 812
protective conductor	no
core identification	colours acc. VDE 0293 (HD308)
test voltage	3 kV
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) 3GI3, halogen-free
maximum temperature at conductor	90 °C
sheathing material	rubber (CR) 5GM5
oil resistant acc. to EN 60811-2-1	yes
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-40 - +80 °C
temperature, moved/ during installation	-20 - +80 °C

Application:
At high mechanical stresses for the connection of heavy-duty underground mining, industrial and construction equipment, in dry and damp areas, and outdoors. The cable is largely flame-resistant and oil-proof.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050121	01X16	ye	154	11,4	260	dr.
050359	01X25	ye	240	13,1	400	dr.
050190	01X35	ye	336	14,5	500	dr., c. 100, c. 50
050122	01X50	ye	480	19	680	dr.
050123	01X70	ye	672	20	900	dr.
050124	01X95	ye	912	22,2	1150	dr.
050125	01X120	ye	1152	24	1440	dr.
050410	01X150	ye	1440	27,1	1750	dr.
050434	01X185	ye	1776	30,2	2180	dr.
050422	01X240	ye	2304	34,2	2790	dr.

NSSHöu-O

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050557	01X300	ye	2880	42,1	3460	dr.
050227	02X1,5	ye	29	11,8	190	dr.
050738	02X2,5	ye	48	12,8	210	dr.



NSHTöu

Application:
As connection and control cable in lifting devices, hoisting plants and transporting machines for heavy mechanical load, and as drum and drag cable or hawser in dry, damp or wet rooms and in wet industrial conditions. The cable can be reeled and is resistant to acids, lyes, and oils. The permissible reeling speed may be up to V = 2 m/s.

standard	VDE 0250 T. 602
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	3 kV
protective conductor	yes
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) 3GI3, halogen-free
maximum temperature at conductor	90 °C
inner sheath	rubber GM1b
sheathing material	rubber (CR) 5GM3
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-40 - +80 °C
temperature, moved/ during installation	-20 - +80 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050523	04X1,5	bk	58	14,4	275	dr.
050529	04X2,5	bk	96	17,2	415	dr.
050536	04X4	bk	154	18,8	530	dr.
050537	04X6	bk	230,4	20,2	684	dr.
050538	04X10	bk	384	24,4	1017	dr.
050539	04X16	bk	615	27,9	1370	dr.
050540	04X25	bk	960	34,9	1985	dr.
050541	04X35	bk	1344	37,5	2605	dr.
050542	04X50	bk	1920	44,2	3593	dr.
050543	04X70	bk	2688	48,6	4950	dr.
050544	04X95	bk	3648	55,4	6490	dr.
050545	04X120	bk	4608	62	8600	dr.

NSHTöu

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050766	04X150	bk	5760	67,6	9090	dr.
050767	04X185	bk	7104	73,2	9730	dr.
050524	05X1,5	bk	72	15,4	317	dr.
050530	05X2,5	bk	120	18,2	464	dr.
050548	05X4	bk	192	20,1	630	dr.
050546	05X6	bk	288	22,7	790	dr.
050547	05X10	bk	480	26,3	1200	dr.
050749	05X16	bk	768	30,1	1700	dr.
050313	07X1,5	bk	101	18,8	414	dr., c. 50
050556	07X2,5	bk	168	20,8	575	dr.
050525	12X1,5	bk	173	25,1	607	dr.
050531	12X2,5	bk	288	28,2	904	dr.
050526	18X1,5	bk	260	25,2	743	dr.
050532	18X2,5	bk	432	29,2	1230	dr.
050312	24X1,5	bk	346	29,4	1024	dr.
050534	24X2,5	bk	576	34,3	1583	dr.
050527	30X1,5	bk	432	32,9	1327	dr.
050535	30X2,5	bk	720	38,5	1841	dr.
050740	50X2,5	bk	1200	47,7	3050	dr.

YSLTOE-J (Korbflex)

core identification	gn-ye + numbers
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC TI2
sheathing material	polyurethan 11YM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-20 - +70 °C

Application:
As feeder for load suspension devices for heavy mechanical load in vertically operated hoisting cages, indoors and outdooors. The cable is resistant to ozone, UV-rays and dampness.

p/n	type	colour	CU kg/km	weight ca. kg/km	packaging
050392	42X2,5	bk	1008	3530	dr.

Immersion pump cable (-J)

Application:
As connection cable for submersible electric motors (pumps) for the permanent use in potable water up to temperature of 70 °C. The cable is chlor resistant (31°C, 1,0 mg/l) and moreover for use in dry, damp and wet rooms with medium mechanical load. Test certificates of different national and international institutes are available on request.

nominal voltage U_o	450 V
nominal voltage U	750 V
test voltage	2,5 kV
core identification	colours acc. VDE 0293 (HD308)
protective conductor	yes
version	round
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) 3GI3, halogen-free
maximum temperature at conductor	90 °C
sheathing material	rubber (EPR) GM1a
flame retardant	VDE 0482-332-1-2/IEC 60332-1

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050562	03X1,5	bu	43	11,1	150	dr.
050501	03X2,5	bu	72	12,1	220	dr.
050499	04X1,5	bu	58	11,5	190	dr.
050502	04X2,5	bu	96	13,5	250	dr.
050503	04X4	bu	154	15,5	380	dr.
050549	04X6	bu	230	18,1	520	dr.
050550	04X10	bu	384	23,9	950	dr.
050504	04X16	bu	614	27,5	1400	dr.
050551	04X25	bu	960	33,1	1950	dr.
050753	04X35	bu	1344	35,2	2700	dr.
050653	04X50	bu	1920	42,2	3600	dr.
050754	04X70	bu	2688	47,9	4900	dr.
050993	04X95	bu	3648		5590	dr.

Subersible pump cable (-O)

Application:
As connection cable for submersible electric motors (pumps) for the permanent use in potable water up to temperature of 70 °C. The cable is chlor resistant (31°C, 1,0 mg/l) and moreover for use in dry, damp and wet rooms with medium mechanical load. Test certificates of different national and international institutes are available on request.

nominal voltage U_o	450 V
nominal voltage U	750 V
test voltage	2,5 kV
version	round
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) 3GI3, halogen-free
maximum temperature at conductor	90 °C
sheathing material	rubber (EPR) GM1a
flame retardant	VDE 0482-332-1-2/IEC 60332-1

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050498	01X1,5	bu	14,4	6,4	54	dr.
050961	01X25	bu	240	14,2	400	dr.
050903	01X50	bu	480	18,5	730	dr.
050910	01X70	bu	672	21,1	1000	dr.
050624	01X95	bu	912	23,4	1300	dr.
050928	01X185	bu	1776	31,1	2300	dr.
050929	01X240	bu	2304	34,5	2900	dr.

H05RNH2-F

standard	VDE 0282-8
version	flat
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	300 V
nominal voltage U	500 V
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) EI4
maximum temperature at conductor	60 °C
sheathing material	rubber (CR) EM2
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-25 - 60 °C

Application:
Cable for dry and wet rooms as well as outdoor for temporary installation of fairy lights.

p/n	type	colour	CU kg/km	w x h ca. mm	weight ca. kg/km	packaging
050411	02X1,5	gn	28,8	14 x 6	145	dr., c. 100, c. 50

NGFLGOEU

standard	VDE 0250 T. 809
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2000 V
core identification	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers
conductor material	bare copper
conductor construction	fine stranded class 6, up from 35 sqmm class 5
insulation	rubber (EPR) 3GI3, halogen-free
sheathing material	rubber (CR) 5GM3
maximum temperature at conductor	90 °C
max. operating temperature, fixed	-40 - +80 °C
temperature, moved/ during installation	-35- +80 °C
bending radius, fixed installation	5 x D_A
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, moved application	10 x D_A

Application:
For the connection of mobile parts of machine tools, conveyor plants and major items of equipment, if the cable is exposed to bends in only one level; in dry, damp and wet areas as well as outdoors.

p/n	type	colour	CU kg/km	w x h ca. mm	weight ca. kg/km	packaging
050505	04X1,5	bk	58	17,5 x 6,2	200	dr.
050506	05X1,5	bk	72	21,5 x 6,2	240	dr.
050507	07X1,5	bk	101	29,1 x 6,2	360	dr.
050508	08X1,5	bk	115	31,5 x 6,2	370	dr.
050509	10X1,5	bk	144	39,9 x 6,5	460	dr.
050374	12X1,5	bk	173	47,1 x 6,5	620	dr.
050510	24X1,5	bk	346	54,9 x 6,5	1300	dr.
050555	04X2,5	bk	96	21,1 x 12,5	280	dr., c. 50
050568	05X2,5	bk	120	27,1 x 7,5	332	dr.

NGFLGOEU

p/n	type	colour	CU kg/km	w x h ca. mm	weight ca. kg/km	packaging
050372	07X2,5	bk	168	34,9 x 7,5	520	dr.
050511	08X2,5	bk	192	39,1 x 7,5	550	dr.
050569	10X2,5	bk	240	47,9 x 8,1	680	dr.
050512	12X2,5	bk	288	56,1 x 8,1	800	dr.
050570	24X2,5	bk	576	70,9 x 16,2	1480	dr.
050513	04X4	bk	154	26,1 x 9,1	410	dr.
050571	05X4	bk	192	32,1 x 9,1	560	dr.
050373	07X4	bk	269	41,9 x 9,1	700	dr.
050514	04X6	bk	230	29,1 x 9,5	600	dr.
050521	05X6	bk	288	35,1 x 9,5	650	dr.
050522	07X6	bk	403	42,1 x 9,5	850	dr.
050515	04X10	bk	384	33,1 x 11,1	800	dr.
050768	05X10	bk	480	44,1 x 11,1	1135	dr.
050516	04X16	bk	614	37,8 x 12,9	1150	dr.
050572	05X16	bk	768	49,8 x 12,9	1450	dr.
050517	04X25	bk	960	49,5 x 15,1	1700	dr.
050573	05X25	bk	1200	59,8 x 16,1	2200	dr.
050518	04X35	bk	1344	54,9 x 17,1	2200	dr.
050574	07X35	bk	2352	88,2 x 17,1	3820	dr.
050519	04X50	bk	1920	62,8 x 18,9	3000	dr.
050575	04X70	bk	2688	71,2 x 22,1	3910	dr.
050520	04X95	bk	3648	79,8 x 24,8	5300	dr.
050576	04X120	bk	4608	85,8 x 27,2	6400	dr.

NGFLCGOU

Application:
For the connection of mobile parts of machine tools, conveyor plants and major items of equipment, if the cable are exposed to bends in only one level. For installation in dry, damp and wet areas as well as outdoor. Due to the screening of each single core the cable has improved EMC performance.

standard	VDE 0250 T. 809
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2000 V
core identification	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers
conductor construction	fine stranded class 6, up from 35 sqmm class 5
conductor material	bare copper
insulation	rubber (EPR) 3GI3, halogen-free
screen coverage	80 %
sheathing material	rubber (CR) 5GM3
maximum temperature at conductor	90 °C
max. operating temperature, fixed	-40 - +80 °C
temperature, moved/ during installation	-35- +80 °C
bending radius, fixed installation	5 x D_A
bending radius, moved application	10 x D_A
flame retardant	VDE 0482-332-1-2/IEC 60332-1

p/n	type	colour	CU kg/km	w x h ca. mm	weight ca. kg/km	packaging
050578	04X1,5	bk	99	18,5 x 6,5	230	dr.
050426	08X1,5	bk	228	36,1 x 7,5	640	dr.
050402	12X1,5	bk	342	54,5 x 8,5	770	dr.
050387	04X2,5	bk	163	22,5 x 7,5	340	dr.
050905	12X2,5	bk	500	69,5 x 9,5	1061	dr.
050489	04X4	bk	241	29,1 x 10,5	505	dr.
050469	04X6	bk	353	31,1 x 10,5	600	dr.
050839	04X10	bk	495	36,1 x 10,5	855	dr.

NGFLCGOU

p/n	type	colour	CU kg/km	w x h ca. mm	weight ca. kg/km	packaging
050840	04X16	bk	687	41,5 x 13,5	1160	dr.
050841	04X25	bk	1114	47,1 x 15,1	1640	dr.
050842	04X35	bk	1482	55,1 x 17,1	2540	dr.
050843	04X50	bk	2012	66,1 x 20,5	3030	dr.

L-STN

nominal voltage U_o	450 V
nominal voltage U	750 V
test voltage	3 kV
protective conductor	yes
core identification	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers
conductor material	bare copper
conductor construction	fine stranded class 6
insulation	rubber (EPR) EI4
flame retardant	VDE 0482-332-1-2/IEC 60332-1
sheathing material	rubber 5GM2
max. operating temperature, fixed	-40 - +70 °C
temperature, moved/ during installation	-30 - +70 °C
bending radius, moved application	10 x D_A

Application:
Highly flexible elevator cable with integrated textile strength members for heights up to 80 m. For application in conveyor plants and energy chain with more frequent, movement also obligation-led. For the application inside of buildings and outdoors.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050625	03X1	bk	32	8,9	110	dr.
050626	07X1	bk	73	13,5	204	dr.
050627	12X1	bk	125	19,5	389	dr.
050628	18X1	bk	195	20,1	471	dr.
050629	24X1	bk	262	22,5	650	dr.
050631	54X1	bk	656	32,2	1399	dr.
050632	03X1,5	bk	48	9,5	113	dr.
050633	04X1,5	bk	64	11,5	150	dr.
050634	05X1,5	bk	80	11,9	180	dr.
050635	07X1,5	bk	112	13,5	270	dr.
050636	09X1,5	bk	143	16,5	359	dr.
050637	12X1,5	bk	187	20,9	510	dr.
050638	18X1,5	bk	291	22,1	619	dr.

L-STN

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050639	24X1,5	bk	376	24,8	817	dr.
050641	04X2,5	bk	106	12,5	210	dr.
050642	05X2,5	bk	138	14,5	255	dr.
050643	07X2,5	bk	193	17,5	380	dr.

FACAB SOLAR 125

Application:
Designed specially for application in solar generators. Thanks to cross-linked insulating and sheathing materials very good resistance against mechanical and environmental factors is achieved, as well as a very high electrical performance. At the same time the current rating is higher than in comparable rubber- or EPR-insulated cables. The cable is short-circuit-proof and resistant against UV-irradiation and ozon. Insulation and sheath may be separated easily. The GLX-version has an additional rodent protection (glass yarns).

nominal voltage U_o	600 V
nominal voltage U	1000 V
nominal voltage (DC)	0,9/1,5 kV
test voltage	5 kV
conductor construction	fine stranded, class 5
conductor material	copper, bare or tinned
insulation	cross-linked polyolefin-copo-lymer
sheathing material	cross-linked polyolefin-copo-lymer
flame retardant	VDE 0482-332-1-2/IEC 60332-1
maximum tempera-ture at conductor	125 °C
max. operating temperature, fixed	-40 - +125 °C
bending radius, fixed installation	5 x D_A
bending radius, moved application	15 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040723	01X10 VZ	bk	96	8,5	159	c. 100, dr.
040724	01X16 VZ	bk	154	9,5	232	c. 100, dr.
040745	01X25 VZ	bk	240	11,5	295	dr.
040746	01X35 VZ	bk	336	13,3	395	dr.
040747	01X50 VZ	bk	480	15,1	630	dr.
040803	01X70 VZ	bk	672	18,1	987	dr.
040804	01X95 VZ	bk	912	19,9	1276	dr.
040805	01X120 VZ	bk	1152	22,2	1702	dr.

FACAB SOLAR PV1-F

standard	2 Pfg 1169
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
nominal voltage (DC)	0,9/1,8 kV
test voltage	6,5 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	120 °C
insulation	cross-linked polyolefin-copolymer
sheathing material	cross-linked polyolefin-copolymer
flame retardant	VDE 0482-266-2-4/IEC 60332-3-24
bending radius, moved application	6 x D_A
bending radius, fixed installation	4 x D_A
max. operating temperature, fixed	-40 - +90 °C
temperature, moved/ during installation	-40 - +90 °C

Application:
For free movable or fixed installation in photovoltaic installations according to EN 60364-7-712. Cable may be used indoor, outdoor, in explosion hazard areas in industry and agriculture. It is treated as short-circuit and earth-fault safe.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040784	01X2,5 VZ	bk	24	4,6	52	dr.
040725	01X4 VZ	bk	38,4	4,9	71	dr.
040807	01X4 VZ	bu	38,4	4,9	71	dr.
040808	01X4 VZ	rd	38,4	4,9	71	dr.
040770	01X4 VZ V2	bk	38,4	5,6	71	dr.
040726	01X6 VZ	bk	58	5,5	102	dr.
040809	01X6 VZ	bu	58	5,5	102	dr.
040810	01X6 VZ	rd	58	5,5	102	dr.
040771	01X6 VZ V2	bk	58	6,1	102	dr.
040785	01X10 VZ	bk	96	6,7	159	dr.
040786	01X16 VZ	bk	154	7,7	232	dr.

FACAB SOLAR VE

Application:
For free movable or fixed installation in photovoltaic installations according to EN 60364-7-712. Cable may be used indoor, outdoor, in explosion hazard areas in industry and agriculture. It is treated as short-circuit and earth-fault safe.

nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
nominal voltage (DC)	0,9/1,8 kV
test voltage	6,5 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	cross-linked polyolefin-copo-lymer
maximum tempera-ture at conductor	120 °C
sheathing material	cross-linked polyolefin-copo-lymer
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, moved application	6 x D_A
bending radius, fixed installation	4 x D_A
max. operating temperature, fixed	-40 - +90 °C
temperature, moved/ during installation	-40 - +90 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040788	01X4 VZ	bk	38,4	4,7	71	dr.
040789	01X4 VZ	bu	38,4	4,7	71	dr.
040790	01X4 VZ	rd	38,4	4,7	71	dr.
040791	01X6 VZ	bk	58	5,3	102	dr.
040792	01X6 VZ	bu	58	5,3	102	dr.
040793	01X6 VZ	rd	58	5,3	102	dr.

Trailing cables/British Standard

Trailing cables

Trailing cables according to VDE 0250 p. 605 are available in many different designs and under different brandings. Usually they are offered under the VDE type code as NTSCGEWÖU or N3GHSSYCY. Apllication fields are open and closed cast mining, tunelling, harbours or, in general, power supply of medium voltage operated moving equipement. The application defines, which of the numerous constructional options are used in a certain design:
- conductor
construction
- design of protective conductor
- different control conductors/cores
- design of torsion protection
- integration of ptical elements
- color and material of outer sheath

This listing is not complete and may be amended according to customers requirements.

Beginning with 2010 Faber Kabel offers a basic selection of trailing cables NTSCGEWÖU. The cable is VDE-approved and covers range of basic applications for trailing cables.

Cables according to British Standard

Cables and cords play a major role on the global market. The most characteristic feature, compared with cables to German standards, is the steel wire armour, allthough there are BS-cables without it. Special care has to be taken to the core identification. Since the colour code according to HD 308 has been introduced in Europe, there are BS-cables with "old" core identification (i.e. red, white or yellow, blue, black, green-yellow) as well as cable with harmonized core identification.

Faber offers PVC and LSF sheathed low voltage cables according to BS 5467 and BS 6724, plus medium voltage cables according to BS 6622.

H05Z-K

Application:
For installation in tubes and ducts on and under plaster, for the internal wiring of electrical appliances, switching and distribution tools, as well as in busses and railborn vehicles.

standard	VDE 0282-9
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2,5 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	90 °C
insulation	polyolefin EI5, halogen-free, cross-linked
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040287	01X0,5	bk	4,8	1,9	9	dr., c. 100
040288	01X0,5	ge/ye	4,8	1,9	9	dr., c. 100
040290	01X0,5	lbu	4,8	1,9	9	dr., c. 100
040289	01X0,5	bn	4,8	1,9	9	dr., c. 100
040321	01X0,5	dbu	4,8	1,9	9	dr., c. 100
040433	01X0,5	gy	4,8	1,9	9	dr., c. 100
040320	01X0,5	rd	4,8	1,9	9	dr., c. 100
040291	01X0,75	bk	7,2	2,2	13	dr., c. 100
040292	01X0,75	ge/ye	7,2	2,2	13	dr., c. 100
040294	01X0,75	lbu	7,2	2,2	13	dr., c. 100
040293	01X0,75	bn	7,2	2,2	13	dr., c. 100
040323	01X0,75	dbu	7,2	2,2	13	dr., c. 100
040322	01X0,75	rd	7,2	2,2	13	dr., c. 100
040698	01X0,75	og	7,2	2,2	12	c. 100
040295	01X1	bk	9,6	2,5	15	dr., c. 100
040296	01X1	ge/ye	9,6	2,5	15	dr., c. 100
040298	01X1	lbu	9,6	2,5	15	dr., c. 100
040297	01X1	bn	9,6	2,5	15	dr., c. 100
040434	01X1	gy	9,6	2,5	15	c. 100
040325	01X1	dbu	9,6	2,5	15	dr., c. 100
040324	01X1	rd	9,6	2,5	15	dr., c. 100

H07Z-K

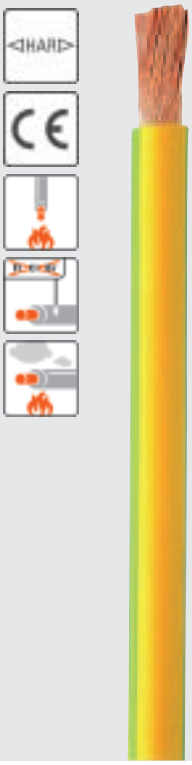
standard	VDE 0282-9
nominal voltage U_o	450 V
nominal voltage U	750 V
test voltage	2,5 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	90 °C
insulation	polyolefin EI5, halogen-free, cross-linked
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	70 °C

Application:
For installation in tubes and ducts on and under plaster, for the internal wiring of electrical appliances, switching and distribution tools, as well as in busses and railborn vehicles.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040264	01X1,5	bk	14,4	3,1	21	dr., c. 100
040265	01X1,5	ge/ye	14,4	3,1	21	dr., c. 100
040267	01X1,5	lbu	14,4	3,1	21	dr., c. 100
040266	01X1,5	bn	14,4	3,1	21	dr., c. 100
040327	01X1,5	dbu	14,4	3,1	21	dr., c. 100
040326	01X1,5	rd	14,4	3,1	21	dr., c. 100
040268	01X2,5	bk	24	3,8	34	dr., c. 100
040269	01X2,5	ge/ye	24	3,8	34	dr., c. 100
040271	01X2,5	lbu	24	3,8	34	dr., c. 100
040270	01X2,5	bn	24	3,8	34	dr., c. 100
040329	01X2,5	dbu	24	3,8	34	dr., c. 100
040328	01X2,5	rd	24	3,8	34	dr., c. 100
040272	01X4	bk	38	4,4	47	dr., c. 100
040274	01X4	ge/ye	38	4,4	47	dr., c. 100
040276	01X4	lbu	38	4,4	47	dr., c. 100
040275	01X4	bn	38	4,4	47	dr., c. 100
040331	01X4	dbu	38	4,4	47	dr., c. 100
040330	01X4	rd	38	4,4	47	dr., c. 100
040277	01X6	bk	58	5,4	72	dr., c. 100
040278	01X6	ge/ye	58	5,4	72	dr., c. 100
040280	01X6	lbu	58	5,4	72	dr., c. 100
040279	01X6	bn	58	5,4	72	dr., c. 100
040333	01X6	dbu	58	5,4	72	dr., c. 100
040332	01X6	rd	58	5,4	72	dr., c. 100
040281	01X10	bk	96	6,5	120	dr., c. 100
040282	01X10	ge/ye	96	6,5	120	dr., c. 100
040767	01X10	lbu	96	6,5	120	dr.
040335	01X10	dbu	96	6,5	120	dr., c. 100
040334	01X10	rd	96	6,5	120	dr., c. 100
040283	01X16	bk	154	7,3	170	dr., c. 100
040284	01X16	ge/ye	154	7,3	170	dr., c. 100
040768	01X16	lbu	154	7,3	170	dr.
040337	01X16	dbu	154	7,3	170	dr., c. 100
040336	01X16	rd	154	7,3	170	dr., c. 100
040285	01X25	bk	240	9,5	260	dr., c. 100
040286	01X25	ge/ye	240	9,5	260	dr., c. 100
040769	01X25	lbu	240	9,5	260	dr.
040339	01X25	dbu	240	9,5	260	dr.
040338	01X25	rd	240	9,5	260	dr.
040301	01X35	bk	336	10,9	360	dr.
040311	01X35	ge/ye	336	10,9	360	dr.
040302	01X50	bk	480	11,7	515	dr., c. 50
040312	01X50	ge/ye	480	11,7	515	dr., c. 50
040303	01X70	bk	672	13,5	710	dr., c. 50
040313	01X70	ge/ye	672	13,5	710	dr., c. 50
040304	01X95	bk	912	15,5	940	dr.
040314	01X95	ge/ye	912	15,5	940	dr.
040305	01X120	bk	1152	17	1180	dr.
040315	01X120	ge/ye	1152	17	1180	dr.
040306	01X150	bk	1440	19	1600	dr.

H07Z-K

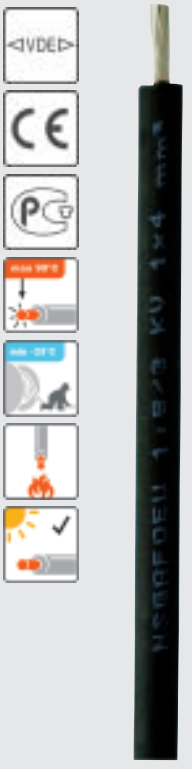
p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040316	01X150	ge/ye	1440	19	1600	dr.
040308	01X185	bk	1776	21	2100	dr.
040317	01X185	ge/ye	1776	21	2100	dr.
040309	01X240	bk	2304	24	3015	dr.
040318	01X240	ge/ye	2304	24	3015	dr.
040310	01X300	bk	2880		3398	dr.
040319	01X300	ge/ye	2880		3398	dr.



NSGAFöu

Application:
This wire is designed for application in busses and railborn vehicles. If used in distribution or switching appliances the wire is considered to be short circuit proof. It is resistant against most oils and grease.

standard	VDE 0250 T. 602
nominal voltage U_o	1,8 kV
nominal voltage U	3,6 kV
test voltage	6 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) 3GI3, halogen-free
sheathing material	rubber (CR) 5GM5
maximum temperature at conductor	90 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-40 - +90 °C
temperature, moved/ during installation	-25 - +90 °C



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050194	01X1,5	bk	14,4	5,5	60	dr., c. 100, c. 50
050178	01X2,5	bk	24	5,9	70	dr., c. 100, c. 50
050159	01X4	bk	38	6,4	90	dr., c. 100, c. 50
050165	01X6	bk	58	7	120	dr., c. 100, c. 50
050172	01X10	bk	96	8,4	180	dr., c. 100, c. 50
050183	01X16	bk	154	9,2	250	dr., c. 100, c. 50
050184	01X25	bk	240	11,5	390	dr., c. 100, c. 50
050163	01X35	bk	336	12,8	470	dr., c. 100, c. 50
050164	01X50	bk	480	14,3	625	dr., c. 100, c. 50
050182	01X70	bk	672	16	880	dr., c. 100, c. 50
050208	01X95	bk	912	18,2	1190	dr., c. 100, c. 50
050244	01X120	bk	1152	19,9	1430	dr., c. 50
050241	01X150	bk	1440	21,8	1750	dr.
050245	01X185	bk	1776	23,8	2160	dr.
050246	01X240	bk	2304	26,7	2640	dr.

NSGAFÖu

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050247	01X300	bk	2880	38	3178	dr.
050471	01X400	bk	3840	40,5	4200	dr.
050472	01X500	bk	4800	42	5500	dr.

NSHXAFÖ

standard	VDE 0250 T. 606
nominal voltage U_o	1,8 kV
nominal voltage U	3 kV
test voltage	6 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) 3GI3, halogen-free
sheathing material	FRNC compound HM3
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	yes
maximum temperature at conductor	90 °C
max. operating temperature, fixed	-40 - 70 °C
temperature, moved/ during installation	-25 - 70 °C

Application:
This insulated wire is designed for application in busses and railborn vehicles. If used in distribution or switching appliances up to 1000 V, it is considered to be short circuit proof. The cable is halogen-free, flame-retardant and resistant against most oils and grease.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050476	01X1,5 3KV	bk	14,4	7	60	dr., c. 100
050477	01X2,5 3KV	bk	24	7,5	70	dr., c. 100
050379	01X4 3KV	bk	38,4	9	85	dr., c. 100, c. 50
050380	01X6 3KV	bk	57,6	9,5	110	dr., c. 100
050381	01X10 3KV	bk	96	11	160	dr., c. 100, c. 50
050382	01X16 3KV	bk	153,6	13	240	dr., c. 100, c. 50
050383	01X25 3KV	bk	240	15	365	dr., c. 100, c. 50
050376	01X35 3KV	bk	336	16,5	494	dr.
050377	01X50 3KV	bk	480	18	656	dr.
050353	01X70 3KV	bk	672	20,5	880	dr.
050356	01X95 3KV	bk	912	24	1090	dr.
050355	01X120 3KV	bk	1152	25,1	1340	dr.
050384	01X150 3KV	bk	1440	28	1640	dr.
050385	01X185 3KV	bk	1776	31	2160	dr.

NSHXAFÖ

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050386	01X240 3KV	bk	2304	34,5	2570	dr.
050654	01X300 3KV	bk	2890	38	3470	dr.
050893	01X400 3KV	bk	3840	40,1	4180	dr.
050892	01X500 3KV	bk	4800	42,1	5860	dr.

GGSG

Application:
The cable is designed for use on railways, where narrow bending radii and vibrations may occur.

nominal voltage U_o	1,8 kV
nominal voltage U	3 kV
maximum permitted operating voltage in 3-phase systems	2160 kV
nominal voltage (DC)	2700 V
test voltage	6 kV
conductor material	bare copper
conductor construction	fine stranded class 6
maximum temperature at conductor	90 °C
insulation	rubber (EPR) EI6
flame retardant	VDE 0482-332-1-2/IEC 60332-1
sheathing material	rubber (CR) EM2
max. operating temperature, fixed	-35 - +80 °C
temperature, moved/ during installation	-25 - +80 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011865	01X300/95	rd	3904	46	4850	dr.

SiD

nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	tinned copper
conductor construction	solid, class 1
insulation	silicone rubber
maximum temperature at conductor	180 °C
max. operating temperature, fixed	-60- +180 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, moved application	6 x D_A

Application:
For operation at environment temperatures above 55 °C, for internal wiring of lamps, heating equipment and electrical appliances as well as for switching boxes and distributions.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031939	01X1	bk	9,6	2,3	13	dr., c. 100
031940	01X1	wh	9,6	2,3	13	dr., c. 100
031941	01X1,5	bu	14,4	2,6	19	dr., c. 100
031942	01X1,5	bn	14,4	2,6	19	dr., c. 100
031943	01X1,5	ge/ye	14,4	2,6	19	dr., c. 100
032653	01X1,5	gy	14,4	2,6	19	dr., c. 100
031944	01X1,5	bk	14,4	2,6	19	dr., c. 100

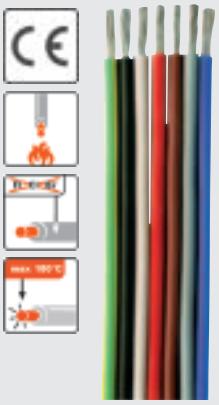
SiF

nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	silicone rubber
maximum temperature at conductor	180 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-60- +180 °C
bending radius, fixed installation	6 x D_A
bending radius, moved application	15 x D_A

Application:
For operation at environment temperatures above 55 °C, for internal wiring of lamps, heating equipment and electrical appliances as well as for switching boxes and distributions.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031069	01X0,25	bu	2,4	1,8	5,5	dr., c. 200
031070	01X0,25	bk	2,4	1,8	5,5	dr., c. 200
031071	01X0,25	bn	2,4	1,8	5,5	dr., c. 200
031072	01X0,25	gy	2,4	1,8	5,5	dr., c. 200
031073	01X0,25	wh	2,4	1,8	5,5	dr., c. 100, c. 200
031074	01X0,25	rd	2,4	1,8	5,5	dr., c. 200
031075	01X0,5	ge/ye	4,8	2,1	8,6	c. 100
031076	01X0,5	bu	4,8	2,1	8,6	c. 100
031077	01X0,5	bk	4,8	2,1	8,6	c. 100
031078	01X0,5	bn	4,8	2,1	8,6	c. 100
031079	01X0,5	gy	4,8	2,1	8,6	c. 100
031080	01X0,5	wh	4,8	2,1	8,6	dr., c. 100
031081	01X0,5	rd	4,8	2,1	8,6	c. 100
031082	01X0,75	gy	7,2	2,4	11	c. 100
031083	01X0,75	wh	7,2	2,4	11	c. 100
031084	01X0,75	rd	7,2	2,4	11	c. 100

SiF



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030993	01X0,75	bk	7,2	2,4	11	c. 100
030992	01X0,75	bn	7,2	2,4	11	c. 100
030991	01X0,75	bu	7,2	2,4	11	c. 100
030990	01X0,75	ge/ye	7,2	2,4	11	dr., c. 100
030994	01X1	ge/ye	9,6	2,5	13,6	c. 100
030997	01X1	bk	9,6	2,5	13,6	c. 100
030996	01X1	bn	9,6	2,5	13,6	c. 100, c. 50
030995	01X1	bu	9,6	2,5	13,6	c. 100, c. 50
031085	01X1	gy	9,6	2,5	13,6	c. 100
031086	01X1	wh	9,6	2,5	13,6	c. 100
031087	01X1	rd	9,6	2,5	13,6	c. 100
030999	01X1,5	bu	14,4	2,8	20,3	dr., c. 100, barrel
030998	01X1,5	ge/ye	14,4	2,8	20,3	dr., c. 100, c. 50, barrel
030972	01X1,5	rd	14,4	2,8	20,3	dr., c. 100, barrel
030971	01X1,5	bn	14,4	2,8	20,3	c. 100, dr., barrel
030970	01X1,5	bk	14,4	2,8	20,3	dr., c. 100, barrel
031088	01X1,5	gy	14,4	2,8	20,3	c. 100, dr., barrel
031089	01X1,5	wh	14,4	2,8	20,3	dr., c. 100, barrel
031090	01X2,5	ge/ye	24	3,4	32	dr., c. 100, barrel
031091	01X2,5	bu	24	3,4	32	dr., c. 100, barrel
030967	01X2,5	bk	24	3,4	32	dr., c. 100, barrel
030968	01X2,5	rd	24	3,4	32	dr., c. 100, barrel
030969	01X2,5	bn	24	3,4	32	dr., c. 100, barrel
031092	01X2,5	gy	24	3,4	32	c. 100
031093	01X2,5	wh	24	3,4	32	c. 100
031094	01X4	ge/ye	38,4	4,2	48,5	c. 100
031095	01X4	bu	38,4	4,2	48,5	c. 100
031096	01X4	bk	38,4	4,2	48,5	dr., c. 100
031097	01X4	bn	38,4	4,2	48,5	c. 100
031098	01X4	gy	38,4	4,2	48,5	c. 100
031099	01X4	wh	38,4	4,2	48,5	c. 100
031100	01X4	rd	38,4	4,2	48,5	dr., c. 100
031101	01X6	ge/ye	57,6	5,2	71	c. 100
031102	01X6	bu	57,6	5,2	71	c. 100
031103	01X6	bk	57,6	5,2	71	c. 100, c. 50, dr.
031104	01X6	bn	57,6	5,2	71	c. 100
031105	01X6	gy	57,6	5,2	71	c. 100
031106	01X6	wh	57,6	5,2	71	c. 100
031107	01X6	rd	57,6	5,2	71	c. 100
031108	01X10	bk	96	7	124	dr., c. 100, c. 50
032021	01X10	bu	96	7	124	dr., c. 100
032022	01X10	bn	96	7	124	dr., c. 100
031109	01X10	ge/ye	96	7	124	c. 100, c. 50
032025	01X10	wh	96	7	124	dr., c. 100
031115	01X16	bk	153,6	8	188	dr., c. 100, c. 50
031111	01X16	ge/ye	153,6	8	188	dr., c. 50, c. 100
031112	01X25	bk	240	9,9	296	dr., c. 100, c. 50
031113	01X25	ge/ye	240	9,9	296	dr., c. 50
031114	01X35	bk	336	11,2	400	dr., c. 50
031116	01X35	ge/ye	336	11,2	400	dr., c. 50
031117	01X50	bk	480	13,8	570	dr., c. 50
030963	01X70	bk	672	14,8	766	dr.
031118	01X95	bk	912	18,2	1030	dr., c. 100
031119	01X120	bk	1152	19,2	1300	dr.
031281	01X150	bk	1440	21,9	1563	dr.
031288	01X185	bk	1776	23	1915	dr.
032108	01X240	bk	2304	26,5	2440	dr.
032109	01X300	bk	2880	30	3100	dr.

SiHF-J

protective conductor	yes
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
core identification	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	silicone rubber
maximum temperature at conductor	180 °C
sheathing material	silicone rubber
max. operating temperature, fixed	-60- +180 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, fixed installation	15 x D_A

Application:
For connection of mobile electrical appliances without mechanical stress at increased environmental temperatures, for example in steel-works, but also at low temperatures. Insulation and sheath are resistant against most oils, acids, lyes and oxydants. For fixed installation in mechanical protected conduits. For indoor and outdoor use.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030709	03X0,75	rd	21,6	6,8	66	dr., c. 100, c. 50
030710	04X0,75	rd	28,8	7,8	84	dr., c. 100, c. 50
030942	05X0,75	rd	36	8,5	101	dr., c. 100, c. 50
031120	06X0,75	rd	43,2	9,4	126	dr., c. 50, c. 100
030943	07X0,75	rd	50,4	9,6	158	dr., c. 100, c. 50
030676	03X1	rd	28,8	7,4	78	dr., c. 100, c. 50
030682	04X1	rd	38,4	8	95	dr., c. 100, c. 50
030944	05X1	rd	48	8,8	116	dr., c. 100, c. 50
030678	07X1	rd	67,2	10	177	dr., c. 100, c. 50
032872	20X1	rd	192	15,8	400	dr.
030680	03X1,5	rd	43,2	8	98	dr., c. 100, c. 50
030665	04X1,5	rd	57,6	8,8	122	dr., c. 100, c. 50
030711	05X1,5	rd	72	9,6	148	dr., c. 100, c. 50
030800	07X1,5	rd	101	10,9	232	dr., c. 100, c. 50
032635	08X1,5	rd	115,2	11,6	213	dr., c. 100
030791	12X1,5	rd	172,8	14,8	332	dr.
032625	18X1,5	rd	259,2	17,6	510	dr.
030945	20X1,5	rd	288	18,5	549	dr.
030946	24X1,5	rd	345,6	20,2	635	dr.
030664	03X2,5	rd	72	9,7	152	dr., c. 100, c. 50
030674	04X2,5	rd	96	10,6	189	dr., c. 100, c. 50
030691	05X2,5	rd	120	11,6	229	dr., c. 100, c. 50
030766	07X2,5	rd	168	13,2	348	dr., c. 50
033890	12X2,5	rd	288	18	530	dr.
033511	16X2,5	rd	384	19,1	659	dr.
032636	19X2,5	rd	456	20,6	912	dr.
032314	25X2,5	rd	600	25,7	1200	dr.
031126	03X4	rd	115	11,5	249	dr., c. 100, c. 50
030668	04X4	rd	154	13	330	dr., c. 100, c. 50
030696	05X4	rd	192	15	359	dr.
031127	07X4	rd	269	16,2	487	dr.
031129	03X6	rd	173	14,2	352	dr., c. 50
031130	04X6	rd	230	16,2	429	dr.
030690	05X6	rd	288	17,7	564	dr.
030951	07X6	rd	403	19,3	685	dr.
030708	04X10	rd	384	21,4	710	dr.
033749	05X10	rd	480	22,5	900	dr.
030707	04X16	rd	615	24	1014	dr.
031611	05X16	rd	768	26,9	1206	dr.
031332	04X25	rd	960	29,3	1460	dr.
032880	04X35	rd	1344	33	2044	dr.
032847	04X50	rd	1920	34	2990	dr.

SiHF-O

Application:
For connection of mobile electrical appliances without mechanical stress at increased environmental temperatures, for example in steel-works, but also at low temperatures. Insulation and sheath are resistant against most oils, acids, lyes and oxydants. For fixed installation in mechanical protected conduits. For indoor and outdoor use.

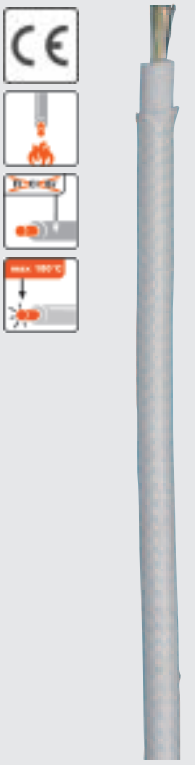
protective conductor	no
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	silicone rubber
maximum temperature at conductor	180 °C
sheathing material	silicone rubber
max. operating temperature, fixed	-60- +180 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, fixed installation	15 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
034943	02X0,5	rd	9,6	5,4	42	dr.
031179	02X0,75	rd	14,4	6,4	57	dr., c. 100, c. 50
031180	02X1	rd	19,2	6,6	64	dr., c. 100, c. 50
031181	02X1,5	rd	28,8	7,6	87	dr., c. 100, c. 50
031182	02X2,5	rd	48	9,2	137	dr., c. 100, c. 50
031183	02X4	rd	76,8	10,8	192	dr., c. 100
031184	02X6	rd	116	13,4	289	dr., c. 100

SiF/GL

Application:
For operation at environment temperatures above 55 °C, for internal wiring of lamps, heating equipment and electrical appliances as well as for switching boxes and distributions.

nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	180 °C
insulation	silicone rubber
max. operating temperature, fixed	-60 - +180 °C
bending radius, fixed installation	15 x D_A



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
034720	01X4	wh	38,4	4,7	53	dr.
032651	01X6	wh	58	5,4	77	dr., c. 100
034721	01X10	wh	96	7,6	129	dr.
034722	01X16	wh	154	8,9	198	dr.
034723	01X25	wh	240	10,9	303	dr.
034522	01X35	wh	336	12,1	413	dr.
034724	01X50	wh	480	14,4	578	dr.
033844	01X70	wh	672	14,9	831	dr.
033845	01X95	wh	912	18,4	1117	dr.
033846	01X120	wh	1152	19,4	1410	dr.
033847	01X150	wh	1440	23,4	1695	dr.
033848	01X185	wh	1776	24	2077	dr.
034725	01X240	wh	2304		2498	dr.

H05SJ-K

standard	VDE 0282-3
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	silicone rubber
maximum temperature at conductor	90 °C
max. operating temperature, fixed	-60 - +180 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1

Application:
For operation at environment temperatures above 55 °C, for internal wiring of lamps, heating equipment and electrical appliances as well as for switching boxes and distributions.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031711	01X1,5	wh	14,4	3,5	24	dr., c. 100
031795	01X2,5	wh	24	4,2	35,6	dr.

SiHFCSi-J

protective conductor	yes
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	silicone rubber
maximum temperature at conductor	180 °C
inner sheath	silicone rubber
screen coverage	85 %
sheathing material	silicone rubber
max. operating temperature, fixed	-60- +180 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, moved application	10 x D_A
bending radius, fixed installation	5 x D_A

Application:
For connection of electrical appliances without mechanical stress at increased environmental temperatures, for example in steel-works, but also at low temperatures. Insulation and sheath are resistant against most oils, acids, lyes and oxydants. For indoor and outdoor use. The cable is designed for connections in EMI-sensitive applications.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031574	03X0,75	rd	69,1		130	dr.
031894	04X0,75	rd	86	10,1	159	dr.
032639	07X0,75	rd	113,3	11,6	214	dr.
033737	03X1	rd	86,2	9,7	146	dr.
032889	04X1	rd	97	10,7	174	dr.
033729	05X1	rd	110	11,6	203	dr.
032890	07X1	rd	142	12,1	247	dr.
031895	24X1	rd	325		526	dr.
031951	03X1,5	rd	103,5		198	dr.
032322	04X1,5	rd	132	12,1	230	dr.
033730	05X1,5	rd	149	13,3	276	dr.
032637	07X1,5	rd	193,4	14,3	342	dr.

SiHFCSi-J

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031806	12X1,5	rd	298		454	dr.
034764	03X2,5	rd	148	12,9	275	dr.
032789	04X2,5	rd	189	14,2	334	dr.
032043	05X2,5	rd	214,9		394	dr.
034795	07X2,5	rd	266	16,9	488	dr.
032319	04X4	rd	294	17,1	520	dr.
033482	04X6	rd	449	18,8	781	dr.
033731	05X4	rd	374	19,4	592	dr.
033732	05X6	rd	563	21,2	844	dr.
033744	04X10	rd	759	25,7	1294	dr.
033745	04X16	rd	1180	28,4	1988	dr.
033746	04X25	rd	1236	35	2995	dr.
034551	02X0,75	rd	62	9,2	124	dr.
034552	02X1	rd	67	9,5	132	dr.
034553	02X1,5	rd	88	10,7	172	dr.
034554	02X2,5	rd	123	12,1	230	dr.

SiHFCSi-O

Application:
For connection of electrical appliances without mechanical stress at increased environmental temperatures, for example in steel-works, but also at low temperatures. Insulation and sheath are resistant against most oils, acids, lyes and oxydants. For indoor and outdoor use. The cable is designed for connections in EMI-sensitive applications.

protective conductor	no
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	silicone rubber
maximum temperature at conductor	180 °C
inner sheath	silicone rubber
screen coverage	85 %
sheathing material	silicone rubber
max. operating temperature, fixed	-60- +180 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, moved application	10 x D_A
bending radius, fixed installation	5 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
034551	02X0,75	rd	62	9,2	124	dr.
034552	02X1	rd	67	9,5	132	dr.
034553	02X1,5	rd	88	10,7	172	dr.
034554	02X2,5	rd	123	12,1	230	dr.

SiHF/GLS-P

nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
core identification	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	silicone rubber
sheathing material	silicone rubber
armour	steel wire braiding, galvanized
maximum temperature at conductor	180 °C
max. operating temperature, fixed	-60 - +180 °C
bending radius, fixed installation	10 x D_A
flame retardant	VDE 0482-332-1-2/IEC 60332-1

Application:
For connection of electrical appliances with high mechanical stress at increased environmental temperatures, for example in steel-works, but also at low temperatures. Insulation and sheath are resistant against most oils, acids, lyes and oxydants.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032325	02X0,75	SWA	14,4	7,9	84	dr.
032326	03X0,75	SWA	21,6	8,3	95	dr.
032327	04X0,75	SWA	29	9,3	116	dr.
032328	05X0,75	SWA	36	10,1	140	dr.
032033	07X0,75	SWA	50	10,7	177	dr.
032329	02X1	SWA	19,2	7,9	91	dr.
032330	03X1	SWA	29	8,9	110	dr.
031748	04X1	SWA	38,4	9,4	142	dr.
032331	05X1	SWA	48	10,4	155	dr.
031936	07X1	SWA	67,2	11,1	197,7	dr.
032332	02X1,5	SWA	29	9,1	119	dr.
032333	03X1,5	SWA	43,2	9,5	137	dr.
032079	04X1,5	SWA	58	10,3	170	dr.
032334	05X1,5	SWA	72	11,1	193	dr.
032292	07X1,5	SWA	101	12,1	198	dr.
032023	12X1,5	SWA	173	15,5	328	dr.
032309	24X1,5	SWA	346	21,5	600	dr.
032336	02X2,5	SWA	48	10,7	175	dr.
032337	03X2,5	SWA	72	11,2	194	dr.
031970	04X2,5	SWA	96	12,1	278	dr.
032338	05X2,5	SWA	120	13,3	304	dr.
032339	06X2,5	SWA	144	14,3	340	dr.
032340	07X2,5	SWA	168	14,4	368	dr.
032343	04X4	SWA	154	14,9	359	dr.
032324	05X4	SWA	192	16,1	435	dr.
032344	07X4	SWA	269	17,5	559	dr.
032347	04X6	SWA	230,4	18,1	508	dr.
032348	05X6	SWA	288	19,4	615	dr.
032921	07X6	SWA	403	20,7	768	dr.
032349	04X10	SWA	384	22,1	925	dr.
032350	04X16	SWA	614,4	26,1	1235	dr.
034669	04X25	SWA	960	30,4	1700	dr.

H05SS-F

Application:
For connection of mobile electrical appliances without mechanical stress at increased environmental temperatures, for example in steel-works, but also at low temperatures. Insulation and sheath are resistant against most oils, acids, lyes and oxydants. For fixed installation in mechanical protected conduits. For indoor and outdoor use.

standard	VDE 0282-15
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	300 V
nominal voltage U	500 V
protective conductor	yes
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	silicone rubber
maximum temperature at conductor	180 °C
sheathing material	silicone rubber
max. operating temperature, fixed	-60- +180 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, moved application	7,5 x D_A
bending radius, fixed installation	4 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033448	02X0,75	bk	14,4	7,4	57	dr.
033449	03G0,75	bk	22	8,1	71	dr., c. 100
033450	04G0,75	bk	29	8,8	90	dr.
033451	05G0,75	bk	36	9,9	109	dr.
033452	02X1	bk	19,2	8	67	dr.
033453	03G1	bk	29	8,5	84	dr., c. 100
033454	04G1	bk	38,4	9,3	101	dr.
033455	05G1	bk	48	10,3	125	dr.
033456	02X1,5	bk	29	10,8	90	dr.
032873	03G1,5	bk	43,2	11,4	114	dr.
033457	04G1,5	bk	58	12,6	137	dr.
032919	04G1,5	rd	58	12,6	137	dr.
033458	05G1,5	bk	72	13,7	163	dr.
033459	02X2,5	bk	48	12,6	149	dr.
032878	03G2,5	bk	72	13,4	169	dr.
032879	03G2,5	rd	72	13,4	169	dr.
033460	04G2,5	bk	96	14,8	209	dr.
032901	04G2,5	rd	96	11,6	195	dr.
033461	05G2,5	bk	120	16,3	255	dr.
032942	05G2,5	rd	120	16,3	255	dr.
033463	04G4	bk	154	17,2	331	dr.
033465	04G6	bk	230,4	19,1	488	dr.

FZLSi

nominal voltage U	10 kV
test voltage	20 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	silicone rubber
max. operating temperature, fixed	-50 - +180 °C

Application:
Ignition wire for use under heavy transient environment temperatures. For fixed or flexible installation in the thermo and process technology, refrigeration and air conditioning technology.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031753	01X1	rd	9,6	7,2	60	dr., c. 100
032294	01X1,5	bu	14,4	7,4	95	dr., c. 100

2GTL 13,8/15,0 kV

nominal voltage U_o	13,8 kV
nominal voltage U	15 kV
maximum permitted operating voltage in 3-phase systems	27,6 kV
test voltage	31 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	180 °C
insulation	silicone rubber
bending radius, fixed installation	6 x D_A
max. operating temperature, fixed	-50 - +180 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1

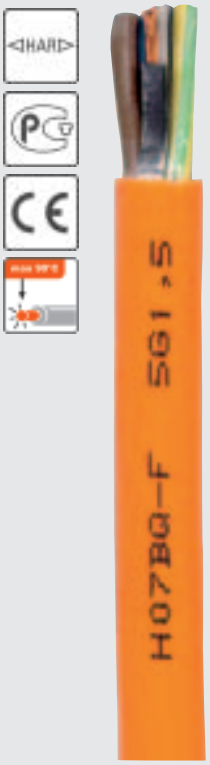
Application:
Flexible connecting cable for increased ambient temperatures, for example transformers, generators and motors. For installation indoors and cable ducts for power stations, industry and distribution networks etc.. The halogen sheath is resistant against transformer oil and fuel oil.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033428	01X10 13	bk	96	12,1	211	dr.
031930	01X16 13	bk	154	14,1	287	dr.
033429	01X25 13	bk	240	15,6	389	dr.
033430	01X35 13	bk	336	16,7	496	dr.
031933	01X50 13	bk	480	18,6	685	dr.
033431	01X70 13	bk	672	20,7	866	dr.
032143	01X95 13	bk	912	22,5	1096	dr.
033432	01X120 13	bk	1152	24,3	1340	dr.
033433	01X150 13	bk	1440	26,7	1646	dr.
033434	01X185 13	bk	1776	28,7	1975	dr.
033435	01X240 13	bk	2304	30,9	2485	dr.

H05BQ-F

Application:
In dry and wet environment as well as in free air for medium mechanical stress. For connection of electrical tools on building sites or in cold environments. H07BQ-F has a filler.

standard	VDE 0282-10
core identification	colours acc. VDE 0293 (HD308)
protective conductor	yes
nominal voltage U_o	300 V
nominal voltage U	500 V
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) EI4
maximum temperature at conductor	90 °C
sheathing material	polyurethan
flame retardant	no
max. operating temperature, fixed	-40 - +80 °C

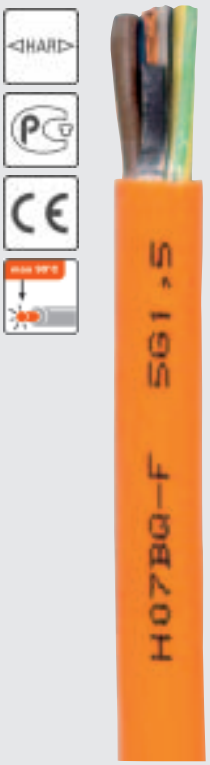


p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050320	02X0,75	og	14,4	6,4	48,5	dr., c. 100, c. 50, c. 250
050324	02X1	og	19,2	7	57	dr., c. 100, c. 50
050321	03G0,75	og	21,6	7,1	60	dr., c. 100, c. 50
050325	03G1	og	28,8	7,4	71	dr., c. 100, c. 50
050322	04G0,75	og	29	7,6	76	dr., c. 100, c. 50
050326	04G1	og	38,4	8,1	92	dr., c. 100, c. 50
050323	05G0,75	og	36	8,5	98	dr., c. 100, c. 50
050327	05G1	og	48	9	115,5	dr., c. 100, c. 50

H07BQ-F

Application:
In dry and wet environment as well as in free air for medium mechanical stress. For connection of electrical tools on building sites or in cold environments. H07BQ-F has a filler.

standard	VDE 0282-10
core identification	colours acc. VDE 0293 (HD308)
protective conductor	yes
nominal voltage U	750 V
nominal voltage U_o	450 V
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) EI4
maximum temperature at conductor	90 °C
sheathing material	polyurethan
flame retardant	no
max. operating temperature, fixed	-40 - +80 °C



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050328	02X1,5	og	28,8	8,4	87,5	dr., c. 100, c. 50
050332	02X2,5	og	48	10	128	dr., c. 100, c. 50
050329	03G1,5	og	43,2	8,9	106,5	dr., c. 100, c. 50
050333	03G2,5	og	72	10,6	158,5	dr., c. 100, c. 50
050491	03G4	og	115,2	12,9	228	dr.
050330	04G1,5	og	57,6	9,9	136	dr., c. 100, c. 50
050334	04G2,5	og	96	11,8	206	dr., c. 100, c. 50
050492	04G4	og	154	14,5	294	dr.
050493	04G6	og	230	16,2	436	dr.
050494	04G10	og	384	21,6	722	dr.
050495	04G16	og	614,4	24,2	1103	dr.
050331	05G1,5	og	72	10,8	169,5	dr., c. 100, c. 50
050335	05G2,5	og	120	13,1	258	dr., c. 100, c. 50
050416	05G4	og	192	16	345	dr., c. 100, c. 50

H07BQ-F

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050417	05G6	og	288	17,9	518	dr., c. 100, c. 50
050418	05G10	og	480	23,2	864	dr.
050419	05G16	og	768	26,9	1382	dr.

X07BQ-F

standard	VDE 0282-10
nominal voltage U_o	450 V
nominal voltage U	750 V
core identification	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers
protective conductor	yes
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	rubber (EPR) EI4
maximum temperature at conductor	90 °C
sheathing material	polyurethan
flame retardant	no
max. operating temperature, fixed	-40 - +80 °C

Application:
In dry and wet environment as well as in free air for medium mechanical stress. For connection of electrical tools on building sites or in cold environments. H07BQ-F has a filler.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
050420	05G25	og	1200	35	2400	dr.
050409	05G35	og	1680	39	2500	dr.
050437	05G50	og	2400	46,5	3290	dr.
050421	05G70	og	3360	53	5556	dr.
050413	05G95	og	4560	60	7274	dr.
050345	07X1,5	og	101	13,2	267	dr., c. 100, c. 50
050347	07X2,5	og	168	15,2	352	dr., c. 100
050401	12G1,5	og	172	16	340	dr., c. 100, c. 50
050350	12X2,5	og	288	20,8	520	dr., c. 100

Livz6YYw

Application:
Cable with wide application area in electronics, nuclear engineering, aviation, marine and military, heating devices and lighting. The insulation is flame retardant, mechanical robust and heat resistant.“

nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	200 °C
insulation	FEP
sheathing material	special PVC-compound
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-20 - +90 °C
bending radius, fixed installation	7,5 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032904	02X0,75 FL	TR	14,4		56	dr.
032609	03G0,75	TR	22	5	66	dr., c. 100
032905	04G0,75	TR	29	5,6	80	dr., c. 100
032906	05G0,75	TR	36	6,2	91	dr., c. 100
032907	07G0,75	TR	50,4		124	dr., c. 100
032984	04G1,5 T	TR	58	7	144	dr., c. 100, c. 50

H05V2V2D3-F (NYPLYw)

Application:
As drawbars as well as for fixed installation in lights (not permitted for the connection of localvariable loads). Breaking load of the strength member 250 N.

nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
core identification	green-yellow, blue, brown, black
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC TI3
maximum temperature at conductor	90 °C
sheathing material	PVC YM3
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	+5 - +90 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032870	04G0,75	bk	29	9	72	c. 100
032871	04G0,75	wh	29	9	72	c. 100

Li2GYw (SiHYw PV/P)

core identification	red, blue
nominal voltage U	24 V
test voltage	500 V
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	silicone rubber
maximum temperature at conductor	180 °C
sheathing material	PVC
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-40 - +90 °C
temperature, moved/ during installation	+5 - +90 °C
bending radius, fixed installation	7,5 x D_A

Application:
As connecting cable between transformer and halogen-lamps in low voltage lightning systems.

p/n	type	colour	CU kg/km	w x h ca. mm	weight ca. kg/km	packaging
031847	02X1,5	bk	28,8	5,8 x 3,5	44	c. 100, dr.
031848	02X2,5	bk	48	6,8 x 4	66	dr., c. 100
031849	02X4	bk	76,8	7,8 x 4,4	96	dr., c. 100

NYL

standard	VDE 0283-1
nominal voltage U_o	5 kV
nominal voltage U	10 kV
conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	PVC
maximum temperature at conductor	70 °C
max. operating temperature, fixed	-40 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, fixed installation	4 x D_A

Application:
PVC tube light cables are suitable for laying on plaster, in lighting housings and relief fittings and in cable ducts of metal to VDE 128.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032902	01X1,5 5KV	ye	14,4	7,5	59	dr., c. 100

Content

I-YY

standard	VDE 0815
core identification	colours + rings
operating capacity	100 nF/km
nominal voltage U	300 V
test voltage	800 V
loop resistance	130 Ohm/km
attenuation at 800 Hz	1,7 dB/km
conductor material	bare copper
conductor construction	solid, class 1
insulation	PVC TI1
sheathing material	PVC TM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +50 °C
bending radius, fixed installation	7,5 x D_A

Application:
For connection of telecommunication units inside of buildings in dry and wet rooms, also outdoors if the cable is protected against direct sun irradiation. Not for use in power circuits!

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100039	02X2X0,6	gy	11	5	30	dr., c. 100, c. 250
100040	04X2X0,6	gy	23	6,5	50	dr., c. 100, c. 250
100041	06X2X0,6	gy	34	7	70	dr., c. 100, c. 250
100042	10X2X0,6	gy	57	8,5	100	dr., c. 100, c. 250
100149	16X2X0,6	gy	90	9,5	160	dr.
100150	20X2X0,6	gy	113	11	180	dr.
100151	24X2X0,6	gy	136	12	220	dr.
100152	30X2X0,6	gy	170	13,5	280	dr.
100153	40X2X0,6	gy	226	15	360	dr.
100080	50X2X0,6	gy	283	16,5	440	dr.
100154	60X2X0,6	gy	339	18,5	520	dr.
100155	80X2X0,6	gy	452	20	700	dr.
100066	100X2X0,6	gy	565	22,5	840	dr.

I-Y(St)Y .. Lg

Application:
For connection of telecommunication units inside of buildings in dry and wet rooms, also outdoors if the cable is protected against direct sun irradiation. Not for use in power circuits!

standard	VDE 0815
core identification	colours acc. VDE 0815
operating capacity	100 nF/km
nominal voltage U	300 V
test voltage	800 V
conductor material	bare copper
conductor construction	solid, class 1
insulation	PVC TI1
sheathing material	PVC TM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, fixed installation	7,5 x D_A
temperature, moved/ during installation	-5 - +50 °C
max. operating temperature, fixed	-30 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100001	01X2X0,6	gy	7	5	30	dr., c. 100, c. 50, c. 250
100003	02X2X0,6	gy	13	5,5	35	dr., c. 100, c. 50, c. 250
100005	03X2X0,6	gy	18	6,3	50	dr., c. 100, c. 250
100007	04X2X0,6	gy	24	6,8	55	dr., c. 100, c. 50, c. 250
100009	05X2X0,6	gy	30	7,2	65	dr., c. 100, c. 250
100011	06X2X0,6	gy	35	7,5	75	dr., c. 100, c. 50, c. 250
100013	08X2X0,6	gy	46	8	90	dr., c. 100, c. 250
100017	10X2X0,6	gy	58	9	110	dr., c. 100, c. 250
100019	12X2X0,6	gy	71	9,5	130	dr., c. 100, c. 250
100021	14X2X0,6	gy	82	10	150	dr.
100023	16X2X0,6	gy	93	10,5	155	dr., c. 100, c. 250
100025	20X2X0,6	gy	116	11	200	dr., c. 100, c. 250
100027	24X2X0,6	gy	139	11,5	235	dr., c. 100
100029	30X2X0,6	gy	172	13	275	dr.
100031	40X2X0,6	gy	229	15	350	dr., c. 50
100033	50X2X0,6	gy	286	17	445	dr.
100035	60X2X0,6	gy	342	18	520	dr.
100037	80X2X0,6	gy	455	20,5	675	dr.
100015	100X2X0,6	gy	568	23	870	dr.
100436	150X2X0,6	gy	850		1180	dr.
100002	01X2X0,8	gy	11	6	40	dr., c. 100, c. 250
100004	02X2X0,8	gy	21	7	55	dr., c. 100, c. 50, c. 250
100006	03X2X0,8	gy	31	8,5	80	dr., c. 100, c. 250
100008	04X2X0,8	gy	41	9	95	dr., c. 100, c. 250
100010	05X2X0,8	gy	52	9,5	115	dr., c. 100, c. 250
100012	06X2X0,8	gy	62	10,5	130	dr., c. 100, c. 50, c. 250
100014	08X2X0,8	gy	82	11,5	160	dr., c. 100, c. 250
100018	10X2X0,8	gy	102	13	205	dr., c. 100, c. 250
100020	12X2X0,8	gy	123	14	240	dr., c. 100, c. 250
100022	14X2X0,8	gy	144	14,5	280	dr.
100024	16X2X0,8	gy	164	15,5	300	dr., c. 100
100026	20X2X0,8	gy	204	16,5	380	dr., c. 100
100028	24X2X0,8	gy	244	19	445	dr.
100030	30X2X0,8	gy	304	20	540	dr.
100032	40X2X0,8	gy	405	22,5	710	dr.
100034	50X2X0,8	gy	506	25,5	875	dr.
100036	60X2X0,8	gy	606	28	1085	dr.
100038	80X2X0,8	gy	807	31	1440	dr.
100016	100X2X0,8	gy	1008	32	1790	dr.

Fire signalisation cable

core identification	colours acc. VDE 0815
operating capacity	100 nF/km
nominal voltage U	300 V
test voltage	800 V
conductor material	bare copper
conductor construction	solid, class 1
insulation	PVC TI1
sheathing material	PVC TM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +50 °C
bending radius, fixed installation	7,5 x D_A

Application:
For connection of telecommunication units inside of buildings in dry and wet rooms, also outdoors if the cable is protected against direct sun irradiation. The special imprint identifies the cable as fire signalisation cable.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100947	01X2X0,8	rd	11	5,5	38	dr., c. 100
100056	02X2X0,8	rd	21	7	55	dr., c. 100, c. 50, c. 250
100057	04X2X0,8	rd	41	9	95	dr., c. 100
100948	05X2X0,8	rd	52	9,4	114	dr.
100058	06X2X0,8	rd	62	10,5	130	dr., c. 100
100059	10X2X0,8	rd	102	13	205	dr.
100060	20X2X0,8	rd	204	16,5	380	dr.
100145	30X2X0,8	rd	304	20	570	dr.
100146	40X2X0,8	rd	405	22	710	dr.
100147	50X2X0,8	rd	506	25,5	875	dr.
100148	80X2X0,8	rd	807	31	1440	dr.
100144	100X2X0,8	rd	1008	32	1780	dr.

J-2Y(St)Y St III Bd

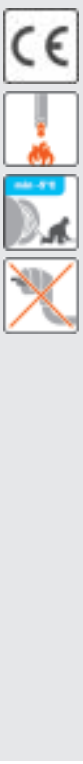
operating capacity	52 nF/km
nominal voltage U	300 V
test voltage	800 V
conductor material	bare copper
conductor construction	solid, class 1
insulation	polyethylene
sheathing material	PVC
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, fixed installation	7,5 x D_A
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +50 °C
impedance	100 Ohm

Application:
For connection of computer units, ISDN-sub-units and -devices and for data transmission. Suitable for transmission of analog- and digital signals up to 16 Mbit/s. For installation in dry and wet rooms.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100210	02X2X0,6	gy	13	5,5	42	dr., c. 100, c. 250
100211	04X2X0,6	gy	24	7,5	66	dr., c. 250
100212	06X2X0,6	gy	35	8,5	80	dr.
100213	10X2X0,6	gy	58	9	115	dr.
100214	20X2X0,6	gy	116	12	217	dr.
100215	30X2X0,6	gy	172	14,5	283	dr.
100216	40X2X0,6	gy	229	16	370	dr.
100217	50X2X0,6	gy	286	18,5	434	dr.

J-2Y(St)Y St III Bd

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100218	60X2X0,6	gy	342	20	526	dr.
100219	80X2X0,6	gy	455	22,5	678	dr.
100220	100X2X0,6	gy	568	25	861	dr.



J-H(ST)H

Application:
Low Smoke Zero Halogen communication cable. For connection of communication units indoors in wet and dry rooms on and under plaster. For outdoor installation the cable must be protected against direct sun irradiation.

standard	VDE 0815
nominal voltage U	300 V
test voltage	800 V
operating capacity	120 nF/km
conductor material	bare copper
insulation	FRNC compound HI1
sheathing material	FRNC-compound HM1
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-5 - +50 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100294	002X2X0,6	gy	14	5,5	49	dr., c. 100
100295	004X2X0,6	gy	25	6,8	92	dr.
100296	006X2X0,6	gy	37	7,5	101	dr., c. 100
100297	010X2X0,6	gy	59	9	146	dr.
100298	020X2X0,6	gy	116	11	310	dr.
100299	030X2X0,6	gy	172	13	352	dr.
100300	040X2X0,6	gy	229	15	464	dr.
100301	050X2X0,6	gy	286	17	573	dr.
100302	060X2X0,6	gy	342	18	661	dr.
100303	080X2X0,6	gy	455	20,5	876	dr.
100304	100X2X0,6	gy	568	23	1056	dr.
100305	002X2X0,8	gy	25	7	69	dr., c. 100
100306	004X2X0,8	gy	45	9	136	dr., c. 100
100307	006X2X0,8	gy	65	10,5	152	dr.
100308	010X2X0,8	gy	106	13	230	dr.
100309	020X2X0,8	gy	206	16,5	508	dr.
100310	030X2X0,8	gy	307	20	599	dr.
100311	040X2X0,8	gy	407	22,5	787	dr.
100312	050X2X0,8	gy	508	25,5	973	dr.

J-H(ST)H

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100314	060X2X0,8	gy	608	28	1121	dr.
100313	080X2X0,8	gy	809	31	1476	dr.
100315	100X2X0,8	gy	1010	32	1805	dr.

J-H(St)H BMK

standard	VDE 0815 (with ref. to)
core identification	colours + rings
operating capacity	120 nF/km
nominal voltage U	300 V
test voltage	800 V
conductor material	bare copper
insulation	FRNC compound HI1
sheathing material	FRNC-compound HM1
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-5 - +50 °C

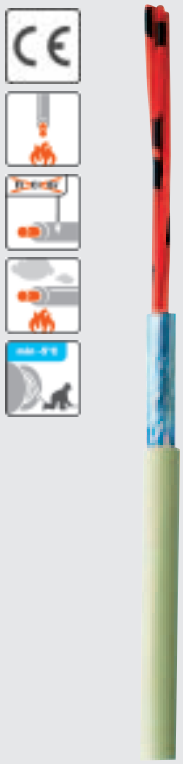
Application:
Low Smoke Zero Halogen communication cable with improved flame retardance. For connection of communication units indoors in wet and dry rooms on and under plaster. The special imprint identifies the cable as fire signalisation cable.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100354	002X2X0,8	rd	25	7	69	dr.
100355	004X2X0,8	rd	45	9	136	dr., c. 100
100356	006X2X0,8	rd	65	10,5	152	dr.
100357	010X2X0,8	rd	106	13	230	dr.
100358	020X2X0,8	rd	206	16,5	508	dr.
100359	030X2X0,8	rd	307	20	599	dr.
100360	040X2X0,8	rd	407	22,5	787	dr.
100361	050X2X0,8	rd	508	25,5	973	dr.
100362	060X2X0,8	rd	608	28	1121	dr.
100363	080X2X0,8	rd	809	31	1476	dr.
100364	100X2X0,8	rd	1010	32	1805	dr.

J-2Y(St)H St III Bd

Application:
Halogen free and flame retardant ISDN-System cable, for connection of telecommunication an IT-components up to 16 Mbit/s (cat. 3).For installation indoor, in and under plaster, in dry as well as wet rooms.

core identification	colours + rings
operating capacity	45 nF/km
nominal voltage U	225 V
test voltage	800 V
conductor material	bare copper
insulation	polyethylene
transfer impedance	200 Ohm/km
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-332-1-2/IEC 60332-1
impedance	100 Ohm
max. operating temperature, fixed	-5 - +50 °C



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100454	02X2X0,6	gy	13	4,9	42	dr.
100390	04X2X0,6	gy	25	6,9	60	dr.
100471	06X2X0,6	gy	35	7	85	dr.
100470	10X2X0,6	gy	58	9,2	115	dr.
100521	20X2X0,6	gy	116	12	217	dr.
100536	30X2X0,6	gy	172	14,5	300	dr.
100537	40X2X0,6	gy	229	16,2	370	dr.
100522	50X2X0,6	gy	286	18,2	434	dr.
100523	60X2X0,6	gy	342	19,6	526	dr.
100538	80X2X0,6	gy	455	22,1	680	dr.
100520	100X2X0,6	gy	568	24,7	861	dr.

A-2Y(L)2Y nx2x0,6

standard	VDE 0816
core identification	colours + rings
nominal voltage U	225 V
test voltage	2000 V
loop resistance	130 Ohm/km
operating capacity	52 nF/km
attenuation at 800 Hz	1,04 dB/km
conductor material	bare copper
conductor construction	solid, class 1
insulation	polyethylene 2YI1
maximum temperature at conductor	70 °C
bonded sheath	yes
sheathing material	polyethylene 2YM1
for outdoor use	yes
flame retardant	no
max. operating temperature, fixed	70 °C
bending radius, fixed installation	7,5 x D_A

Application:
For fixed installation indoors, outdoors, in ground and in water.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
110080	02X2X0,6	bk	11	9	80	dr.
110075	04X2X0,6	bk	23	11	120	dr.
110025	06X2X0,6	bk	34	12	130	dr.
110029	10X2X0,6	bk	57	13,5	155	dr.
110035	20X2X0,6	bk	113	16	240	dr.
110037	30X2X0,6	bk	170	18	310	dr.
110039	40X2X0,6	bk	226	20	385	dr.
110041	50X2X0,6	bk	283	21	460	dr.
110043	70X2X0,6	bk	396	25	605	dr.
110027	100X2X0,6	bk	565	28	870	dr.
110031	150X2X0,6	bk	848	33	1345	dr.
110033	200X2X0,6	bk	1131	38	1755	dr.
110101	250X2X0,6	bk	1414	41,5	2140	dr.
110083	300X2X0,6	bk	1696	44,5	2525	dr.
110103	350X2X0,6	bk	1979	47,5	2930	dr.
110082	400X2X0,6	bk	2262	51	3300	dr.
110068	500X2X0,6	bk	2827	56	4050	dr.

A-2Y(L)2Y nx2x0,8

Application:
For fixed installation indoors, outdoors, in ground and in water.

standard	VDE 0816
core identification	colours + rings
nominal voltage U	225 V
loop resistance	73,2 Ohm/km
test voltage	2000 V
operating capacity	55 nF/km
attenuation at 800 Hz	0,78 dB/km
conductor material	bare copper
conductor construction	solid, class 1
insulation	polyethylene 2YI1
maximum temperature at conductor	70 °C
bonded sheath	yes
sheathing material	polyethylene 2YM1
for outdoor use	yes
flame retardant	no
max. operating temperature, fixed	70 °C
bending radius, fixed installation	7,5 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
110076	02X2X0,8	bk	20	9	90	dr.
110024	04X2X0,8	bk	40	12	140	dr.
110026	06X2X0,8	bk	60	13	160	dr.
110093	08X2X0,8	bk	81	14	180	dr.
110030	10X2X0,8	bk	101	15	205	dr.
110092	12X2X0,8	bk	123	15,2	250	dr.
110036	20X2X0,8	bk	201	18,5	355	dr.
110038	30X2X0,8	bk	302	21	475	dr.
110040	40X2X0,8	bk	402	23	600	dr.
110042	50X2X0,8	bk	503	26	745	dr.
110044	70X2X0,8	bk	704	29	1100	dr.
110028	100X2X0,8	bk	1005	34	1425	dr.
110032	150X2X0,8	bk	1508	40	2200	dr.
110034	200X2X0,8	bk	2011	44	2900	dr.
110090	250X2X0,8	bk	2514	51	3550	dr.
110102	300X2X0,8	bk	3016	53	4200	dr.
110104	350X2X0,8	bk	3519	56	4900	dr.
110105	400X2X0,8	bk	4022	60	5500	dr.
110106	500X2X0,8	bk	5027	68	6800	dr.
110107	600X2X0,8	bk	6032	74	8100	dr.

A-2YF(L)2Y nx2x0,6

standard	VDE 0816
nominal voltage U	225 V
test voltage	2000 V
core identification	colours + rings
operating capacity	52 nF/km
attenuation at 800 Hz	1,04 dB/km
loop resistance	130 Ohm/km
conductor material	bare copper
conductor construction	solid, class 1
maximum temperature at conductor	70 °C
insulation	polyethylene 2YI1
bonded sheath	yes
sheathing material	polyethylene 2YM1
for outdoor use	yes
flame retardant	no
max. operating temperature, fixed	70 °C
bending radius, fixed installation	7,5 x D_A

Application:
For fixed installation indoors, outdoors, in ground and in water.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
110077	02X2X0,6	bk	11	9	80	dr.
110079	04X2X0,6	bk	23	11	130	dr.
110001	06X2X0,6	bk	34	12	140	dr.
110005	10X2X0,6	bk	57	13,5	190	dr.
110011	20X2X0,6	bk	113	16,5	310	dr.
110016	30X2X0,6	bk	170	19,5	430	dr.
110018	40X2X0,6	bk	226	21,5	545	dr.
110020	50X2X0,6	bk	283	23,5	660	dr.
110022	70X2X0,6	bk	396	27	875	dr.
110003	100X2X0,6	bk	565	31,5	1225	dr.
110007	150X2X0,6	bk	848	37,5	1780	dr.
110009	200X2X0,6	bk	1131	42,5	2315	dr.
110013	250X2X0,6	bk	1414	47,5	2895	dr.
110014	300X2X0,6	bk	1696	51,5	3480	dr.
110067	350X2X0,6	bk	1979	53,5	4000	dr.
110072	400X2X0,6	bk	2262	60,5	4550	dr.
110081	500X2X0,6	bk	2827	66	5690	dr.
110100	600X2X0,6	bk	3392	73,5	6880	dr.

A-2YF(L)2Y nx2x0,8

Application:
For fixed installation indoors, outdoors, in ground and in water.

standard	VDE 0816
nominal voltage U	225 V
test voltage	2000 V
core identification	colours + rings
operating capacity	55 nF/km
attenuation at 800 Hz	0,78 dB/km
loop resistance	73,2 Ohm/km
conductor material	bare copper
conductor construction	solid, class 1
maximum temperature at conductor	70 °C
insulation	polyethylene 2YI1
bonded sheath	yes
sheathing material	polyethylene 2YM1
for outdoor use	yes
flame retardant	no
max. operating temperature, fixed	70 °C
bending radius, fixed installation	7,5 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
110078	02X2X0,8	bk	20	10	100	dr.
110074	04X2X0,8	bk	40	13	175	dr.
110002	06X2X0,8	bk	60	13,5	200	dr.
110006	10X2X0,8	bk	101	15,5	280	dr.
110012	20X2X0,8	bk	201	20	485	dr.
110017	30X2X0,8	bk	302	23	675	dr.
110019	40X2X0,8	bk	402	26,5	885	dr.
110021	50X2X0,8	bk	503	28,5	1070	dr.
110023	70X2X0,8	bk	704	33	1420	dr.
110112	80X2X0,8	bk	804	35	1700	dr.
110004	100X2X0,8	bk	1005	38,5	2000	dr.
110008	150X2X0,8	bk	1508	47	2935	dr.
110010	200X2X0,8	bk	2011	52	3800	dr.
110091	250X2X0,8	bk	2514	58	4590	dr.
110015	300X2X0,8	bk	3016	62	5480	dr.
110069	350X2X0,8	bk	3519	66	6350	dr.
110073	400X2X0,8	bk	4022	72	7350	dr.
110099	500X2X0,8	bk	5027	79	8920	dr.

A-02YSOF(L)2Y 0,6 mm

standard	VDE 0816
operating capacity	52 nF/km
loop resistance	130 Ohm/km
nominal voltage U	225 V
conductor material	bare copper
conductor construction	solid, class 1
insulation	foam-PE
bonded sheath	yes
sheathing material	polyethylene
bending radius, fixed installation	7,5 x D_A
max. operating temperature, fixed	-30 - +70 °C

Application:
Subscriber line cable for connecting telecom network components. For installation in tubes ducts or direct burial in ground.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
110227	10X2X0,6	bk	57		190	dr.
110228	20X2X0,6	bk	113	15,8	255	dr.
110229	50X2X0,6	bk	283	21,4	510	dr.
110230	100X2X0,6	bk	565	28,2	940	dr.

A-02YSOF(L)2Y 0,8 mm

standard	VDE 0816
operating capacity	55 nF/km
nominal voltage U	225 V
loop resistance	73,2 Ohm/km
conductor material	bare copper
conductor construction	solid, class 1
insulation	foam-PE
bonded sheath	yes
sheathing material	polyethylene
bending radius, fixed installation	7,5 x D_A
max. operating temperature, fixed	-30 - +70 °C

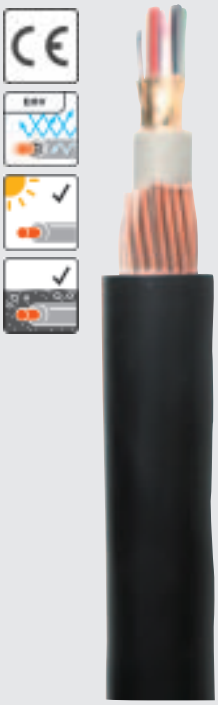
Application:
Subscriber line cable for connecting telecom network components. For installation in tubes ducts or direct burial in ground.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
110413	06X2X0,8	bk	60		200	dr.
110213	10X2X0,8	bk	101	13,2	230	dr.
110231	20X2X0,8	bk	201	17,2	360	dr.
110301	30X2X0,8	bk	302	20	675	dr.
110232	50X2X0,8	bk	503	23,7	750	dr.
110233	100X2X0,8	bk	1005	32,4	1440	dr.
110393	200X2X0,8	bk	2011	44	2650	dr.

AJ-Y(St)YDY Bd

Application:
Subscriber line cable in local distributation networks for short and medium distances, interconnection of distribution points etc., if special requirements to EMC are applicable. Suitable for direct burial in earth (the jelly-filling is protected against intruding water), as well as in cable ducts and tubes. The FR-version is flame retardant acc. to VDE 0482-266-2-4/IEC 60332-3-24.

standard	VDE 0816
attenuation at 800 Hz	1,1 dB/km
operating capacity	100 nF/km
test voltage	500 V
conductor material	bare copper
conductor construction	solid, class 1
insulation	PVC TI1
inner sheath	PVC
sheathing material	PVC TM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, fixed installation	10 x D_A
temperature, moved/ during installation	- 5 - +50 °C
max. operating temperature, fixed	-30 - +70 °C



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
110198	02X2X0,8	bk	193	12,5	325	dr.
110163	04X2X0,8	bk	213	15,1	375	dr.
110200	08X2X0,8	bk	253	17,5	480	dr.
110165	12X2X0,8	bk	294	19,5	327	dr.
110201	20X2X0,8	bk	374	22,5	730	dr.
110214	40X2X0,8	bk	575	28,5	1100	dr.
110285	48X2X0,8	bk	661	30,2	1215	dr.
110202	100X2X0,8	bk	1265	40,3	1890	dr.

A-2YF(L)2YB2Y St III Bd

Application:
For fixed installation indoors, outdoors, in ground and in water.

standard	VDE 0816 (with ref. to)
nominal voltage U	225 V
test voltage	500 V
loop resistance	73,2 Ohm/km
operating capacity	42 nF/km
conductor material	bare copper
conductor construction	solid, class 1
insulation	polyethylene 2YI1
bonded sheath	yes
inner sheath	polyethylene 2YM2
armour	Steel tape
sheathing material	polyethylene 2YM2
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	- 5 - +50 °C
bending radius, fixed installation	7,5 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
110267	02X2X0,8	bk	20	12,7	198	dr.
110268	04X2X0,8	bk	40	15,5	288	dr.
110235	06X2X0,8	bk	60	15,8	320	dr.
110236	10X2X0,8	bk	101	17,8	410	dr.
110273	20X2X0,6	bk	113		454	dr.
110237	20X2X0,8	bk	201	23,1	710	dr.
110238	30X2X0,8	bk	302	26,3	890	dr.
110239	40X2X0,8	bk	402	28,8	1070	dr.

A-2YF(L)2YB2Y St III Bd

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
110240	50X2X0,8	bk	503	31,1	1280	dr.
110241	70X2X0,8	bk	704	35,5	1620	dr.
110300	100X2X0,8	bk	1005	42	1985	dr.

A-Y(St)Yö

standard	VDE 0816
core identification	numbers
nominal voltage U	200 V
test voltage	2000 V
conductor material	tinned copper
conductor construction	stranded, class 2
insulation	PVC
inner sheath	PVC
sheathing material	special PVC-compound
bending radius, fixed installation	12 x D_A
oil resistant acc. to EN 60811-2-1	yes
max. operating temperature, fixed	-30 - +70 °C

Application:
These data transmission cables are used for connections between petrol pumps and the cash register. The cable is oil and fuel-resistance. For fixed installation inside of buildings, outdoor as well as in earth without mechanical stress.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
110184	04X0,75	bk	36	9,1	144	dr.
110179	08X0,75	bk	65	10,8	222	dr.

RD-Y(St)Y

Application:
In measuring and controlcircuits of industrial installations for transfer of analog and digital data up to 10 kHz. For fixed installation inside of buildings The version with blue outer sheath is suitable for application in intrinsical-safe circuits.

operating capacity	120 nF/km
nominal voltage U	600 V
test voltage	2000 V
conductor material	bare copper
conductor construction	stranded, class 2
insulation	PVC
sheathing material	PVC
flame retardant	VDE 0482-332-1-2/IEC 60332-1
impedance	130 Ohm
bending radius, fixed installation	7,5 x D_A
max. operating temperature, fixed	-5 - + 50 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100928	01X2X0,5	gy	15		35	dr.
100929	01X2X0,5	bu	15	5,5	35	dr.
100443	02X2X0,5	gy	25	6,5	65	dr.
100602	02X2X0,5	bu	25	6,5	55	dr.
100445	04X2X0,5	gy	45	9,1	110	dr.
100580	04X2X0,5	bu	45	9,1	110	dr.
100446	08X2X0,5	gy	85	11,5	190	dr.
100501	08X2X0,5	bu	85	11,5	190	dr.
100447	12X2X0,5	gy	125	13,5	290	dr.
100958	12X2X0,5	bu	125	13,5	290	dr.
100448	16X2X0,5	gy	165	15,5	370	dr.
100723	16X2X0,5	bu	165	15,5	370	dr.
100394	24X2X0,5	gy	245	17,8	480	dr.
100581	24X2X0,5	bu	245	17,8	480	dr.
100449	32X2X0,5	gy	325	21,1	700	dr.
100502	32X2X0,5	bu	325	21,1	700	dr.
100450	48X2X0,5	gy	485	25,5	1000	dr.
100724	48X2X0,5	bu	485	25,5	1000	dr.
100395	96X2X0,5	gy	965	33,5	1617	dr.
100444	16X2X1	gy	332	18,2	700	dr.
100970	02X2X1	gy	51	7,6	130	dr.
100972	04X2X1	gy	91	10,4	220	dr.

RE-2X(St)Y FR

conductor material	bare copper
conductor construction	cl.2, 7-wired construction
insulation	XLPE
sheathing material	PVC
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-5 - +50 °C
bending radius, fixed installation	7,5 x D_A

Application:
For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, in outdoor and direct burial in earth.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100988	01X2X0,5	bk	15	8,2	70	dr.
100989	02X2X0,5	bk	30	10,2	98	dr.
100999	02X2X0,5	bu	30	10,2	98	dr.
100990	04X2X0,5	bk	46	11,1	130	dr.
101000	04X2X0,5	bu	46	11,1	130	dr.
101001	08X2X0,5	bu	85	13,8	85	dr.
100992	12X2X0,5	bk	130	15,7	266	dr.
101002	12X2X0,5	bu	130	15,7	266	dr.
101003	16X2X0,5	bu	163	17,5	340	dr.
101004	20X2X0,5	bu	202	18,7	400	dr.
100995	24X2X0,5	bk	250	20,2	455	dr.
101005	24X2X0,5	bu	250	20,2	455	dr.

RE-2X(St)Yv FR

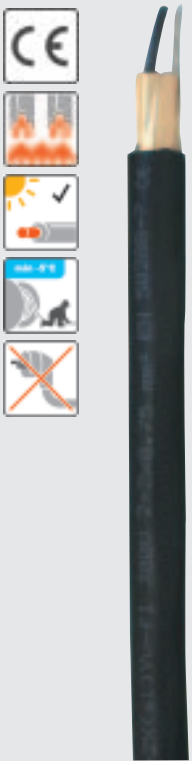
operating capacity	120 nF/km
nominal voltage U	300 V
test voltage	2000 V
conductor material	bare copper
conductor construction	cl.2, 7-wired construction
insulation	XLPE
sheathing material	PVC, enforced
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-5 - +50 °C
bending radius, fixed installation	7,5 x D_A

Application:
For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, in outdoor and direct burial in earth.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100637	01X2X0,75	bu	25	7,7	80	dr.
100564	02X2X0,75	bu	47	10,4	101	dr.
100518	02X2X0,75	bk	47	10,4	101	dr.
100639	04X2X0,75	bu	64	11,7	160	dr.
100626	04X2X0,75	bk	64	11,7	160	dr.
100643	12X2X0,75	bu	184	16,8	344	dr.
100644	12X2X0,75	bk	184	16,8	344	dr.
100647	24X2X0,75	bu	370	22,1	610	dr.
100624	24X2X0,75	bk	370	22,1	610	dr.
100650	01X2X1,3	bu	34	8,4	102	dr.
100615	01X2X1,3	bk	34	8,4	102	dr.
100651	01X3X1,3	bu	50	10	110	dr.
100652	01X3X1,3	bk	50	10	110	dr.
100562	02X2X1,3	bu	60	11,6	125	dr.
100589	02X2X1,3	bk	60	11,6	125	dr.
100653	04X2X1,3	bu	114	13,2	220	dr.
100654	04X2X1,3	bk	114	13,2	220	dr.
100657	08X2X1,3	bu	218	16,4	360	dr.

RE-2X(St)Yv FR

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100658	08X2X1,3	bk	218	16,4	360	dr.
100563	12X2X1,3	bu	322	19,2	488	dr.
100603	12X2X1,3	bk	322	19,2	488	dr.
100660	24X2X1,3	bu	684	26,1	912	dr.
100479	24X2X1,3	bk	684	26,1	912	dr.



RE-2X(St)Yv FR PiMF

Application:
For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, in outdoor and direct burial in earth.

operating capacity	115 nF/km
nominal voltage U	300 V
test voltage	1500 V
core identification	core A: black, core B: white with number
conductor material	bare copper
conductor construction	cl.2, 7-wired construction
insulation	XLPE
sheathing material	PVC, enforced
bending radius, fixed installation	7,5 x D_A
bending radius, moved application	15 x D_A
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +50 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100679	02X2X0,75	bk	47	11,4	140	dr.
100680	04X2X0,75	bu	82	13	190	dr.
100681	04X2X0,75	bk	82	13	190	dr.
100685	08X2X0,75	bk	160	16,1	310	dr.
100686	12X2X0,75	bu	237	18,8	410	dr.
100687	12X2X0,75	bk	237	18,8	410	dr.
100690	24X2X0,75	bu	470	25,5	760	dr.
100691	24X2X0,75	bk	470	25,5	760	dr.
100620	02X2X1,3	bu	68	12,6	135	dr.
100560	02X2X1,3	bk	68	12,6	135	dr.
100565	04X2X1,3	bu	124	14,4	220	dr.
100583	06X2X1,3	bu	181	17	301	dr.
100696	12X2X1,3	bu	353	21,3	580	dr.

RE-2X(St)Yv FR PiMF

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100697	12X2X1,3	bk	353	21,3	580	dr.
100699	24X2X1,3	bu	697	29	1090	dr.
100700	24X2X1,3	bk	697	29	1090	dr.

RE-2Y(St)Yv 0,5 qmm

nominal voltage U	300 V
test voltage	2000 V
conductor resistance	39,2 Ohm/km
operating capacity	75 nF/km
core identification	core A: black, core B: white with number
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	polyethylene
sheathing material	PVC TM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, fixed installation	7,5 x D_A
max. operating temperature, fixed	-30 - +50 °C
temperature, moved/ during installation	-5 - +50 °C

Application:
For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, in outdoor and direct burial in earth.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100777	01X2X0,5	bk	15	8,2	74	dr.
100804	01X2X0,5	bu	15	8,2	74	dr.
100778	02X2X0,5	bk	30	10,2	117	dr.
100805	02X2X0,5	bu	30	10,2	117	dr.
100727	04X2X0,5	bk	50	11	138	dr.
100806	04X2X0,5	bu	50	11,5	138	dr.
100779	06X2X0,5	bk	70	12,6	190	dr.
100807	06X2X0,5	bu	70	12,6	190	dr.
100780	08X2X0,5	bk	90	13,8	210	dr.
100808	08X2X0,5	bu	90	13,8	210	dr.
100781	10X2X0,5	bk	110	14,9	220	dr.
100809	10X2X0,5	bu	110	14,9	220	dr.
100728	12X2X0,5	bk	130	15,7	273	dr.
100810	12X2X0,5	bu	130	15,7	273	dr.
100782	16X2X0,5	bk	170	17,5	348	dr.
100811	16X2X0,5	bu	170	17,5	348	dr.
100783	20X2X0,5	bk	210	18,8	383	dr.
100812	20X2X0,5	bu	210	18,8	383	dr.
100729	24X2X0,5	bk	250	20,2	467	dr.
100813	24X2X0,5	bu	250	20,2	467	dr.

RE-2Y(St)Yv 0,75 qmm

Application:
For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, in outdoor and direct burial in earth.

nominal voltage U	300 V
test voltage	2000 V
conductor resistance	24,6 Ohm/km
operating capacity	75 nF/km
core identification	core A: black, core B: white with number
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	polyethylene
sheathing material	PVC TM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, fixed installation	7,5 x D_A
max. operating temperature, fixed	-30 - +50 °C
temperature, moved/ during installation	-5 - +50 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100786	01X2X0,75	bk	20	7,9	72	dr.
100816	01X2X0,75	bu	20	7,9	72	dr.
100754	02X2X0,75	bk	35	10,6	127	dr.
100817	02X2X0,75	bu	35	10,6	127	dr.
100787	04X2X0,75	bk	65	11,8	167	dr.
100818	04X2X0,75	bu	65	11,8	167	dr.
100788	06X2X0,75	bk	95	13,6	215	dr.
100819	06X2X0,75	bu	95	13,6	215	dr.
100789	08X2X0,75	bk	125	14,6	262	dr.
100820	08X2X0,75	bu	125	14,6	262	dr.
100790	10X2X0,75	bk	155	16,1	308	dr.
100821	10X2X0,75	bu	155	16,1	308	dr.
100755	12X2X0,75	bk	185	17	353	dr.
100822	12X2X0,75	bu	185	17,1	353	dr.
100791	16X2X0,75	bk	245	19,1	443	dr.
100823	16X2X0,75	bu	245	18,9	443	dr.
100792	20X2X0,75	bk	305	21,5	523	dr.
100824	20X2X0,75	bu	305	21,5	523	dr.
100793	24X2X0,75	bk	365	23,2	615	dr.
100825	24X2X0,75	bu	365	23,2	615	dr.

RE-2Y(St)Yv 1,3 qmm

nominal voltage U	300 V
test voltage	2000 V
conductor resistance	14,3 Ohm/km
operating capacity	100 nF/km
core identification	core A: black, core B: white with number
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	polyethylene
sheathing material	PVC TM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, fixed installation	7,5 x D_A
max. operating temperature, fixed	-30 - +50 °C
temperature, moved/ during installation	-5 - +50 °C

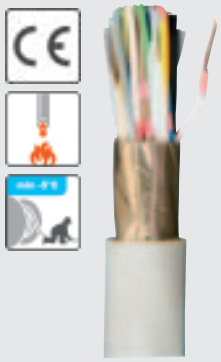
Application:
For data communication with transmission rates up to 200 kBit/s in MSR- and EDP systems. Transmission characteristics are guaranteed by high-quality stranding and screening. For fixed installation in dry and damp areas, in outdoor and direct burial in earth.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100796	01X2X1,3	bk	31	9,4	102	dr.
100828	01X2X1,3	bu	31	9,4	102	dr.
100703	02X2X1,3	bk	62	11,7	161	dr.
100829	02X2X1,3	bu	62	11,7	161	dr.
100797	04X2X1,3	bk	114	13,5	230	dr.
100830	04X2X1,3	bu	114	13,5	230	dr.
100798	06X2X1,3	bk	168	16,1	310	dr.
100831	06X2X1,3	bu	168	16,1	310	dr.
100799	08X2X1,3	bk	218	17,1	376	dr.
100832	08X2X1,3	bu	218	17,1	376	dr.
100800	12X2X1,3	bk	322	19,3	515	dr.
100833	12X2X1,3	bu	322	19,3	515	dr.
100801	16X2X1,3	bk	426	22,1	654	dr.
100834	16X2X1,3	bu	426	22,1	654	dr.
100802	24X2X1,3	bk	684	26,5	951	dr.
100835	24X2X1,3	bu	684	26,5	951	dr.
100803	01X3X1,3	bk	44	9,7	111	dr.
100836	01X3X1,3	bu	44	9,7	111	dr.
100778	02X2X0,5	bk	30	10,2	117	dr.
100788	06X2X0,75	bk	95	13,6	215	dr.

JE-Y(St)Y

Application:
For signal transmission between electronic devices, in computer systems or process control units. For installation in dry and wet rooms.

standard	VDE 0815
loop resistance	73,2 Ohm/km
operating capacity	100 nF/km
nominal voltage U	225 V
test voltage	500 V
core identification	colours + rings
conductor material	bare copper
conductor construction	solid, class 1
insulation	PVC TI1
sheathing material	PVC TM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-30 - +70 °C
bending radius, fixed installation	7,5 x D_A



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100106	02X2X0,8	gy	25	6,9	60	dr.
100484	02X2X0,8	bu	25	6,9	60	dr.
100497	03X2X0,8	gy	35	8,2	90	dr.
100107	04X2X0,8	gy	45	9,1	96	dr.
100496	04X2X0,8	bu	45	9,1	96	dr.
100108	08X2X0,8	gy	85	11,5	158	dr.
100481	08X2X0,8	bu	85	11,5	158	dr.
100109	12X2X0,8	gy	126	14	235	dr.
101055	12X2X0,8	bu	126	14	235	dr.
100110	16X2X0,8	gy	166	15,5	295	dr.
100482	16X2X0,8	bu	166	15,5	295	dr.
100111	20X2X0,8	gy	206	16,5	355	dr.
100483	20X2X0,8	bu	206	16,5	355	dr.
100112	24X2X0,8	gy	246	19	430	dr.
100113	32X2X0,8	gy	327	21	555	dr.
100850	32X2X0,8	bu	327	20	538	dr.
100114	40X2X0,8	gy	407	22,5	670	dr.
100115	48X2X0,8	gy	488	26,6	740	dr.
100116	80X2X0,8	gy	809	31	1290	dr.
100117	100X2X0,8	gy	1015	32	1495	dr.
100595	08X3X0,8	bu	126		235	dr.
100599	08X3X0,8	gy	126		235	dr.

JE-Y(St)Y ... FR

loop resistance	73,2 Ohm/km
operating capacity	100 nF/km
attenuation at 800 Hz	1,1 dB/km
nominal voltage U	225 V
test voltage	2000 V
conductor material	bare copper
conductor construction	solid, class 1
insulation	PVC TI1
sheathing material	special PVC-compound
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
bending radius, moved application	15 x D_A
bending radius, fixed installation	7,5 x D_A
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +50 °C

Application:
For signal transmission between electronic devices, in computer systems or process control units. For installation in dry and wet rooms.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100851	02X2X0,8	gy	25	6,5	60	dr.
100852	04X2X0,8	gy	45	8	90	dr.
100853	08X2X0,8	gy	85	10,5	150	dr.
100854	12X2X0,8	gy	126	11,5	200	dr.
100855	16X2X0,8	gy	166	12,5	260	dr.
100856	20X2X0,8	gy	206	16,5	315	dr.

JE-LiYCY

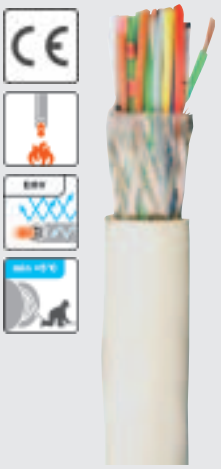
standard	VDE 0815
nominal voltage U	225 V
test voltage	500 V
core identification	colours + rings
operating capacity	100 nF/km
attenuation at 800 Hz	1,1 dB/km
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC
sheathing material	PVC
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-30 - +70 °C
bending radius, fixed installation	7,5 x D_A

Application:
For signal transmission between electronic devices, in computer systems or process control units with increased requirements to electromagnetic compatibility. For installation in dry and wet rooms.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100125	02X2X0,5	gy	48	8,1	81	dr.
100230	02X2X0,5	bu	48	8,1	81	dr.
100126	04X2X0,5	gy	84	10,1	137	dr.
100234	04X2X0,5	bu	84	10,1	137	dr.
100127	08X2X0,5	gy	140	13,5	194	dr.
100231	08X2X0,5	bu	140	13,5	194	dr.
100128	12X2X0,5	gy	193	15,5	307	dr.
100248	12X2X0,5	bu	193	15,5	307	dr.
100202	16X2X0,5	gy	243	17,5	375	dr.
100194	16X2X0,5	bu	243	17,5	375	dr.
100130	20X2X0,5	gy	292	20,1	461	dr.

JE-LiYCY

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100249	20X2X0,5	bu	292	20,1	461	dr.
100131	24X2X0,5	gy	342	21,1	570	dr.
100250	24X2X0,5	bu	342	21,1	570	dr.
100132	32X2X0,5	gy	435	23,1	690	dr.
100251	32X2X0,5	bu	435	23,1	690	dr.
100133	40X2X0,5	gy	531	25,5	831	dr.



JE-LiHCH

Application:
For signal transmission between electronic devices, in computer systems or process control units with increased requirements to electromagnetic compatibility.

core identification	colours + rings
operating capacity	120 nF/km
nominal voltage U_o	250 V
test voltage	1,2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	FRNC compound HI1
maximum temperature at conductor	70 °C
screen coverage	70 %
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
oil resistant acc. to EN 60811-2-1	no
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	7,5 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100556	02X2X0,5	gy	48	9,1	92	dr.
100557	04X2X0,5	gy	84	10,3	155	dr.
100558	08X2X0,5	gy	152	13,3	250	dr.
100742	12X2X0,5	gy	193	15,6	315	dr.
100743	16X2X0,5	gy	243	17,1	389	dr.
100744	20X2X0,5	gy	292	18,5	457	dr.
101009	24X2X0,5	gy	342	20,8	556	dr.
100745	32X2X0,5	gy	435	23,5	680	dr.
100746	40X2X0,5	gy	531	25,9	823	dr.
101093	48X2X0,5	gy	665		988	dr.

YR

nominal voltage U	100 V
operating capacity	300 nF/km
conductor material	bare copper
conductor construction	solid, class 1
insulation	PVC
sheathing material	PVC
max. operating temperature, fixed	-5 - +70 °C
bending radius, fixed installation	7,5 x D_A

Application:
For fixed installation on or under plaster.

Core identification: bk, bu, br, ye, gn, vio, wh, tr, gr

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031841	02X0,8	wh	9,6	4,2	24	c. 100, dr.
031656	03X0,8	wh	14,4	4,8	32	c. 100
031424	04X0,8	wh	19,2	5,2	47	dr., c. 100, c. 50
032934	05X0,8	wh	24	5,8	46	c. 100
032080	06X0,8	wh	28,8	6,1	52	c. 100
031193	08X0,8	gy	38	6,3	70	c. 50
032124	08X0,8	wh	38	6,3	70	c. 100, c. 50
031842	10X0,8	wh	48	7,4	92	c. 100
031438	12X0,8	wh	58	7,7	106	dr., c. 100
032935	14X0,8	wh	67	8,2	107	dr., c. 100
032138	16X0,8	wh	77	8,4	124	dr., c. 100
032936	20X0,8	wh	96	9,4	160	c. 100
031435	24X0,8	wh	115	10,4	220	dr., c. 100

Content

Y-JZ

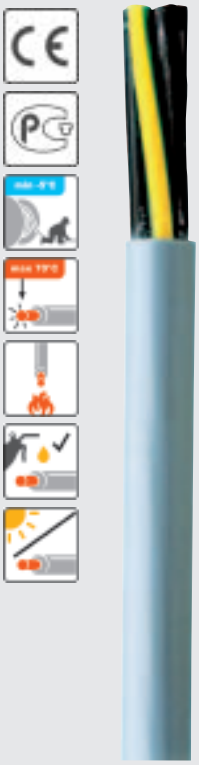
core identification	gn-ye + numbers
protective conductor	yes
nominal voltage U	500 V
nominal voltage U_o	300 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC TI1
maximum temperature at conductor	70 °C
sheathing material	PVC TM2
bending radius, fixed installation	4 x D_A
bending radius, moved application	15 x D_A
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1

Application:
Flexible power, process control and instrumentation cable for industry and mechanical engeneeringt. The cable is resistant against most usual chemicals, oil and grease.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030643	03X0,5	gy	14,4	5,7	47	dr., c. 100, c. 50
030644	04X0,5	gy	19,2	6,1	58	dr., c. 100, c. 50
030645	05X0,5	gy	24	6,6	75	dr., c. 100, c. 50
030647	07X0,5	gy	33,6	7	93	dr., c. 100
030648	08X0,5	gy	38	7,4	115	dr.
030649	10X0,5	gy	48	9,1	142	dr., c. 100
030650	12X0,5	gy	58	9,6	150	dr., c. 100
030651	14X0,5	gy	67	9,8	172	dr.
030604	18X0,5	gy	86	11,1	216	dr., c. 100, c. 50
031992	19X0,5	gy	91,2	11,1	187	dr.
030653	21X0,5	gy	101	11,3	249	dr.
030654	25X0,5	gy	120	13,4	257	dr.
030860	30X0,5	gy	144	14	303	dr.
030655	34X0,5	gy	163	14,4	398	dr.
030656	40X0,5	gy	192	15,5	452	dr.
030657	42X0,5	gy	202	15,6	471	dr.
030658	50X0,5	gy	240	17,5	510	dr.
030659	61X0,5	gy	293	19,1	670	dr.
031196	65X0,5	gy	312	21,4	714	dr.
030102	03X0,75	gy	22	6,1	66	dr., c. 100, c. 50
030104	04X0,75	gy	29	6,6	78	dr., c. 100, c. 50
030105	05X0,75	gy	36	7,2	91	dr., c. 100, c. 50
030106	06X0,75	gy	43,2	7,3	108	dr., c. 100
030107	07X0,75	gy	50,4	7,7	124	dr., c. 100, c. 50
031197	08X0,75	gy	58	8	143	dr.
030861	09X0,75	gy	64,8	9,3	162	dr., c. 100
030109	10X0,75	gy	72	10,1	185	dr., c. 100, c. 50
030110	12X0,75	gy	86,4	10,4	191	dr., c. 100
030111	15X0,75	gy	108	11,5	229	dr., c. 100
030112	18X0,75	gy	130	12,1	283	dr., c. 100, c. 50
031198	20X0,75	gy	144	12,8	288	dr.
030859	21X0,75	gy	151,2	13,8	293	dr.
030114	25X0,75	gy	180	14,9	388	dr., c. 100
031300	30X0,75	gy	216	15,3	445	dr.
030115	32X0,75	gy	230	15,8	467	dr.
030116	34X0,75	gy	245	16,9	546	dr.
031199	41X0,75	gy	295	17,2	668	dr.
030117	42X0,75	gy	302	18	673	dr.
030118	50X0,75	gy	360	20,3	730	dr.
030119	61X0,75	gy	439	21,7	890	dr.
030973	65X0,75	gy	468	24,7	948	dr.
031200	80X0,75	gy	576	26,5	1165	dr.
030121	03X1	gy	29	6,5	68	dr., c. 100, c. 50

Y-JZ

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030122	04X1	gy	38,4	7,1	85	dr., c. 100, c. 50
030123	05X1	gy	48	7,8	110	dr., c. 100, c. 50
031318	06X1	gy	57,6	8,3	135	dr., c. 100
030125	07X1	gy	67	8,3	146	dr., c. 100, c. 50
030862	08X1	gy	76,8	9	148	dr., c. 100
030863	09X1	gy	86,4	10	178	dr., c. 100, c. 50
030128	10X1	gy	96	11,1	210	dr., c. 100
030129	12X1	gy	115,2	11,3	232	dr., c. 100, c. 50
030130	14X1	gy	134,4	11,8	271	dr., c. 100
031201	16X1	gy	154	12,8	300	dr.
030131	18X1	gy	173	13,7	328	dr., c. 100, c. 50
030960	19X1	gy	183	13,9	346	dr.
030132	20X1	gy	192	14,1	357	dr.
031202	21X1	gy	201,6	14,1	444	dr.
030134	25X1	gy	240	16,5	531	dr., c. 100, c. 50
030135	34X1	gy	326,4	18,5	618	dr.
030864	41X1	gy	395	20,8	715	dr.
030137	42X1	gy	403	20,9	731	dr.
030139	50X1	gy	480	22,4	843	dr.
031203	56X1	gy	538	23,2	962	dr.
030455	61X1	gy	586	24,3	1080	dr.
030981	65X1	gy	624	25,7	1150	dr.
031204	80X1	gy	768	27,5	1416	dr.
034660	100X1	gy	960	28,3	1602	dr.
030141	03X1,5	gy	43,2	7,4	95	dr., c. 100, c. 50
030142	04X1,5	gy	58	8,1	117	dr., c. 100, c. 50
030143	05X1,5	gy	72	9,1	152	dr., c. 100, c. 50
031957	06X1,5	gy	86,4	9,5	183	dr.
030144	07X1,5	gy	101	10	192	dr., c. 100, c. 50
030716	08X1,5	gy	115,2	10,9	205	dr., c. 100, c. 50
030704	09X1,5	gy	129,6	12,3	220	dr., c. 100
030531	10X1,5	gy	144	13,1	252	dr., c. 100, c. 50
030776	11X1,5	gy	158,4	13,3	295	dr., c. 100
030148	12X1,5	gy	173	13,5	312	dr., c. 100, c. 50
030149	14X1,5	gy	202	14,2	349	dr., c. 100, c. 50
031205	16X1,5	gy	230	15,2	403	dr.
030150	18X1,5	gy	259,2	16,2	456	dr., c. 100, c. 50
031206	20X1,5	gy	288	16,5	507	dr.
031207	21X1,5	gy	302	17,5	573	dr.
030152	25X1,5	gy	360	19,6	638	dr., c. 100, c. 50
030153	32X1,5	gy	461	21,8	820	dr., c. 50
030154	34X1,5	gy	490	22,3	860	dr., c. 50
030155	42X1,5	gy	605	23,6	1052	dr.
030156	50X1,5	gy	720	25,9	1296	dr.
030456	61X1,5	gy	878,4	27,4	1502	dr.
031208	65X1,5	gy	936	28,5	1600	dr.
031209	80X1,5	gy	1152	30,6	1970	dr.
031401	100X1,5	gy	1440	35,2	2460	dr.
030158	03X2,5	gy	72	9,2	148	dr., c. 100, c. 50
030159	04X2,5	gy	96	10,2	236	dr., c. 100, c. 50
030160	05X2,5	gy	120	11,2	263	dr., c. 100, c. 50
030161	07X2,5	gy	168	12,9	298	dr., c. 100, c. 50
034781	08X2,5	gy	192	13,4	339	dr.
030169	12X2,5	gy	288	16,8	522	dr., c. 100
030163	14X2,5	gy	336	18,4	588	dr., c. 100
031210	16X2,5	gy	384	19,1	665	dr.
030164	18X2,5	gy	432	19,8	749	dr., c. 100
031211	20X2,5	gy	480	20,8	832	dr.
031212	21X2,5	gy	504	21,5	928	dr.
030165	25X2,5	gy	600	24,2	1024	dr.
030166	34X2,5	gy	816	26,8	1513	dr.
031213	40X2,5	gy	960	26,9	1660	dr.
030576	42X2,5	gy	1008	27,1	1800	dr.
030167	50X2,5	gy	1200	32,4	2200	dr.
030570	61X2,5	gy	1464	34,4	2553	dr.
031214	03X4	gy	115,2	10,6	235	dr.



Y-JZ

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030546	04X4	gy	154	10,8	299	dr., c. 100, c. 50
030593	05X4	gy	192	11,9	363	dr., c. 50, c. 100
030597	07X4	gy	269	14,4	488	dr., c. 50
031958	12X4	gy	460,8	19,5	790	dr.
031215	03X6	gy	172,8	12,2	415	dr.
030602	04X6	gy	230	13	480	dr., c. 100, c. 50
030594	05X6	gy	288	14,9	583	dr.
030598	07X6	gy	403	16,2	782	dr.
032316	19X6	gy	1094	26,7	1600	dr.
034556	03X16	gy	461	18	827	dr.
031216	03X10	gy	288	15,8	682	dr.
030590	04X10	gy	384	16,2	737	dr.
030595	05X10	gy	480	18,8	914	dr.
030607	07X10	gy	672	20,4	1191	dr.
030591	04X16	gy	614	19,8	1087	dr.
030596	05X16	gy	768	22,5	1370	dr.
030732	07X16	gy	1075	24,1	1779	dr.
030600	04X25	gy	960	23,4	1582	dr.
030608	05X25	gy	1200	27	1998	dr.
031217	07X25	gy	1680	31,2	2597	dr.
030601	04X35	gy	1344	28,1	2106	dr.
030606	05X35	gy	1680	30,6	2485	dr.
031913	05X50	gy	2400	37	3936	dr.
031337	07X35	gy	2352	38,3	2998	dr.
031704	03X50	gy	1440	27,9	2550	dr.
030592	04X50	gy	1920	34,9	2943	dr.

Y-JB

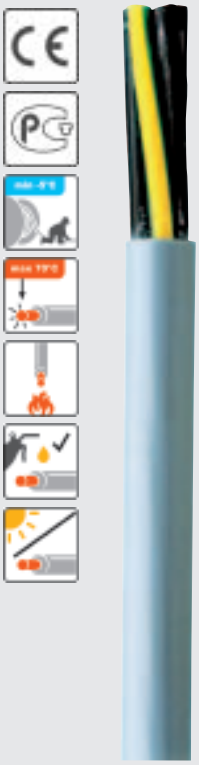
core identification	colours acc. VDE 0293 (HD308)
protective conductor	yes
nominal voltage U	500 V
nominal voltage U_o	300 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC TI1
maximum temperature at conductor	70 °C
sheathing material	PVC TM2
bending radius, fixed installation	4 x D_A
bending radius, moved application	15 x D_A
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1

Application:
Flexible power, process control and instrumentation cable for industry and mechanical engeneeringt. The cable is resistant against most usual chemicals, oil and grease.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030865	03X0,5	gy	14,4	5,7	47	dr., c. 100, c. 50
030866	04X0,5	gy	19,2	6,1	58	dr., c. 100
030867	05X0,5	gy	24	6,6	75	dr., c. 100, c. 50
030612	03X0,75	gy	22	6,1	66	dr., c. 100, c. 50
030616	04X0,75	gy	29	6,6	78	dr., c. 100, c. 50
030620	05X0,75	gy	36	7,2	91	dr., c. 100, c. 50
030613	03X1	gy	29	6,5	68	dr., c. 100, c. 50
030617	04X1	gy	38,4	7,1	85	dr., c. 100, c. 50

Y-JB

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030621	05X1	gy	48	7,8	110	dr., c. 100, c. 50
034843	10X1	gy	96	10,6	195	dr.
030614	03X1,5	gy	43,2	7,4	95	dr., c. 100, c. 50
030618	04X1,5	gy	58	8,1	117	dr., c. 100, c. 50
030622	05X1,5	gy	72	9,1	152	dr., c. 100, c. 50
030615	03X2,5	gy	72	9,2	148	dr., c. 100, c. 50
030619	04X2,5	gy	96	10,2	236	dr., c. 100, c. 50
030623	05X2,5	gy	120	11,2	263	dr., c. 100, c. 50
034217	07X2,5	gy	168	11,9	321	dr.
031218	03X4	gy	115,2	10,6	235	dr.
030695	04X4	gy	154	10,8	299	dr.
030694	05X4	gy	192	11,9	363	dr.
034218	07X4	gy	269	16,8	484	dr.
031219	03X6	gy	172,8	12,2	415	dr.
030783	04X6	gy	230	13	480	dr.
030693	05X6	gy	288	14,9	583	dr.
034219	07X6	gy	403,2	19,1	638	dr.
031338	03X10	gy	288	15,8	682	dr.
030784	04X10	gy	384	16,2	737	dr.
031223	05X10	gy	480	18,8	914	dr.
034220	07X10	gy	672	23	1082	dr.
034221	03X16	gy	461	23,1	912	dr.
030785	04X16	gy	614	19,8	1087	dr.
031222	05X16	gy	768	22,5	1370	dr.
034222	03X25	gy	720	23,3	1388	dr.
030692	04X25	gy	960	23,4	1582	dr.
031221	05X25	gy	1200	27	1998	dr.
034223	03X35	gy	1080	26,6	1766	dr.
030786	04X35	gy	1344	28,1	2106	dr.
031220	05X35	gy	1680	30,6	2485	dr.
034224	03X50	gy	1440	31	2556	dr.
030787	04X50	gy	1920	34,9	2943	dr.
034225	05X50	gy	2400	38,6	3936	dr.
034226	03X70	gy	2016	37,1	3182	dr.
030788	04X70	gy	2688	36	4050	dr.
034228	03X95	gy	2736	41,3	4676	dr.
031339	04X95	gy	3648	41,4	5626	dr.
034227	05X70	gy	3360	46,3	5122	dr.
034229	05X95	gy	4560	50,2	6266	dr.
034230	03X120	gy	3456	46,6	5628	dr.
031340	04X120	gy	4608	51	6994	dr.
034231	04X150	gy	5760	58,9	7570	dr.
034232	04X185	gy	7104	65,8	9102	dr.



Y-OZ

core identification	numbers
protective conductor	no
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC TI1
maximum temperature at conductor	70 °C
sheathing material	PVC TM2
bending radius, fixed installation	4 x D_A
bending radius, moved application	15 x D_A
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1

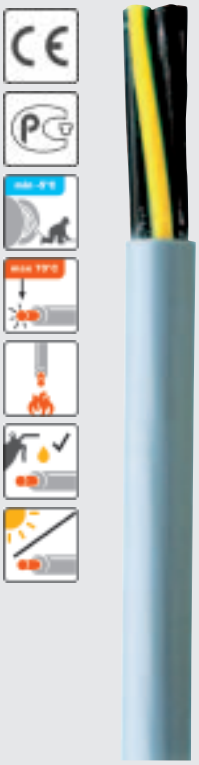
Application:
Flexible power, process control and instrumentation cable for industry and mechanical engeneeringt. The cable is resistant against most usual chemicals, oil and grease.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030642	02X0,5	gy	9,6	5,4	40	dr., c. 100
030868	03X0,5	gy	14,4	5,7	47	dr., c. 100, c. 50
030869	04X0,5	gy	19,2	6,1	58	dr., c. 100, c. 50
030870	05X0,5	gy	24	6,6	75	dr., c. 100, c. 50
030871	07X0,5	gy	33,6	7	93	dr.
030103	02X0,75	gy	15	5,8	56	dr., c. 100, c. 50
030547	03X0,75	gy	22	6,1	66	dr., c. 100, c. 50
030548	04X0,75	gy	29	6,6	78	dr., c. 100
030549	05X0,75	gy	36	7,2	91	dr., c. 100
030633	07X0,75	gy	50,4	7,7	124	dr.
031595	15X0,75	gy	108		229	dr.
030168	02X1	gy	19,2	6,2	57	dr., c. 100, c. 50
030624	03X1	gy	29	6,5	68	dr., c. 100, c. 50
030627	04X1	gy	38,4	7,1	85	dr., c. 100, c. 50
030630	05X1	gy	48	7,8	110	dr., c. 100, c. 50
030634	07X1	gy	67	8,3	148	dr.
032011	12X1	gy	115,2	11,1	232	dr.
031834	18X1	gy	173	13,4	300	dr.
030140	02X1,5	gy	29	7	78	dr., c. 100, c. 50
030625	03X1,5	gy	43,2	7,4	95	dr., c. 100, c. 50
030628	04X1,5	gy	58	8,1	117	dr., c. 100, c. 50
030631	05X1,5	gy	72	9,1	152	dr., c. 100, c. 50
030635	07X1,5	gy	101	10	192	dr.
031150	02X2,5	gy	48	8,7	115	dr., c. 100, c. 50
030626	03X2,5	gy	72	9,2	148	dr., c. 100
030629	04X2,5	gy	96	10,2	236	dr.
030632	05X2,5	gy	120	11,2	263	dr.

Y-OB

Application:
Flexible power, process control and instrumentation cable for industry and mechanical engeneeringt. The cable is resistant against most usual chemicals, oil and grease.

core identification	colours acc. VDE 0293 (HD308)
protective conductor	no
nominal voltage U	500 V
nominal voltage U_o	300 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC TI1
maximum temperature at conductor	70 °C
sheathing material	PVC TM2
bending radius, fixed installation	4 x D_A
bending radius, moved application	15 x D_A
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031017	02X0,5	gy	9,6	5,4	40	dr.
031013	03X0,5	gy	14,4	5,7	47	dr., c. 100
030637	02X0,75	gy	15	5,8	56	dr., c. 100, c. 50
031314	03X0,75	gy	22	6,1	66	dr., c. 100
033440	04X0,75	gy	29	6,6	67,28	dr.
030638	02X1	gy	19,2	6,2	57	dr., c. 100
031426	03X1	gy	29	6,5	68	dr.
030639	02X1,5	gy	29	7	78	dr., c. 100
031427	03X1,5	gy	43,2	7,4	95	dr.
031224	02X2,5	gy	48	8,7	115	dr.
031810	02X4	gy	76,8	10,1	187	dr.
031313	03X4	gy	115,2	11,8	235	dr.

CY-JZ

core identification	gn-ye + numbers
protective conductor	yes
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	70 °C
insulation	PVC TI2
inner sheath	PVC
screen coverage	70 %
sheathing material	PVC TM2
bending radius, fixed installation	6 x D_A
bending radius, moved application	20 x D_A
temperature, moved/ during installation	-5 - +70 °C
max. operating temperature, fixed	-20 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1

Application:
Flexible power, process control and instrumentation cable for industry and machinery environment with increased requirements to electromagnetic compatibility. The cable is resistant against most usual chemicals, oil and grease.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030421	03X0,75	gy	69,2	8,2	145	dr.
030422	04X0,75	gy	87	8,8	163	dr., c. 100
030436	05X0,75	gy	95,1	9,4	183	dr.
030423	07X0,75	gy	111	9,9	233	dr.
030437	12X0,75	gy	180,2	12,5	384	dr.
030438	18X0,75	gy	243	14,1	492	dr.
030439	25X0,75	gy	312	16,6	671	dr.
030440	34X0,75	gy	413	18,5	822	dr., c. 100
030532	42X0,75	gy	445	20	1002	dr.
030562	50X0,75	gy	535	21,6	1154	dr.
033742	51X0,75	gy	535	21,6	1180	dr.
030577	61X0,75	gy	619,8	23,8	1435	dr.
030424	03X1	gy	77	8,8	156	dr.
030425	04X1	gy	97	9,3	178	dr.
030443	05X1	gy	108	9,9	209	dr., c. 100
030444	07X1	gy	128,3	10,5	255	dr., c. 100
030445	12X1	gy	210	13,3	426	dr.
030446	18X1	gy	286	15,3	552	dr.
030447	25X1	gy	388,5	18,1	766	dr.
030448	34X1	gy	505	20,2	973	dr., c. 100
030533	42X1	gy	578	21,5	1110	dr.
030449	50X1	gy	688	23,5	1322	dr.
030563	61X1	gy	770	25	1596	dr.
030426	03X1,5	gy	102	9,6	200	dr., c. 100
030427	04X1,5	gy	117	10,3	247	dr., c. 100
030420	05X1,5	gy	146	11	304	dr., c. 100, c. 50
034516	06X1,5	gy	134	11,2	337	dr.
030428	07X1,5	gy	196	11,7	393	dr.
030451	12X1,5	gy	280	15,2	615	dr.
030429	18X1,5	gy	389	17,6	793	dr.
030430	25X1,5	gy	535	20,9	1116	dr.
030452	34X1,5	gy	702	23,3	1376	dr.
030453	42X1,5	gy	845	24,6	1596	dr.
030454	50X1,5	gy	1006	27,1	1881	dr.
030578	61X1,5	gy	1075	28,5	2246	dr.
030431	03X2,5	gy	148	11,3	211	dr.
030733	04X2,5	gy	171,5	12,5	298	dr., c. 50
030534	05X2,5	gy	213	13,4	326	dr.
030535	07X2,5	gy	288	14,6	498	dr.
030579	12X2,5	gy	477,3	18,8	796	dr., c. 100

CY-JZ

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030581	18X2,5	gy	572	21,9	1080	dr.
031319	04X4	gy	290	12,7	351	dr.
031312	05X4	gy	328	13,9	480	dr.
034517	03X6	gy	240	13,7	415	dr.
031336	04X6	gy	360	15,7	553	dr.
031344	05X6	gy	441	16,1	600	dr.
031335	04X10	gy	535	19,2	901	dr.
031345	05X10	gy	714	22,9	1048	dr.
031320	04X16	gy	910	22,5	1122	dr.
031346	05X16	gy	1050	25,6	1402	dr.
031347	04X25	gy	1310	26,4	1699	dr.
031348	05X25	gy	1486	36,2	2124	dr.

CY-OZ

Application:
Flexible power, process control and instrumentation cable for industry and machinery environment with increased requirements to electromagnetic compatibility. The cable is resistant against most usual chemicals, oil and grease.

core identification	numbers
protective conductor	no
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	70 °C
insulation	PVC TI2
inner sheath	PVC
screen coverage	70 %
sheathing material	PVC TM2
bending radius, fixed installation	6 x D_A
bending radius, moved application	20 x D_A
temperature, moved/ during installation	-5 - +70 °C
max. operating temperature, fixed	-20 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031341	02X0,75	gy	61,3	8	108	dr., c. 100
031599	03X0,75	gy	69,2	8,2	145	dr.
031342	02X1	gy	66,5	8,6	143	dr., c. 100
031746	03X1	gy	77	8,8	156	dr.
031343	02X1,5	gy	86,4	9,2	189	dr., c. 100
031916	03X1,5	gy	102	8,7	200	dr.

CY-JB

core identification	colours acc. VDE 0293 (HD308)
protective conductor	yes
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	70 °C
insulation	PVC TI2
inner sheath	PVC
screen coverage	70 %
sheathing material	PVC TM2
bending radius, fixed installation	6 x D_A
bending radius, moved application	20 x D_A
temperature, moved/ during installation	-5 - +70 °C
max. operating temperature, fixed	-20 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1

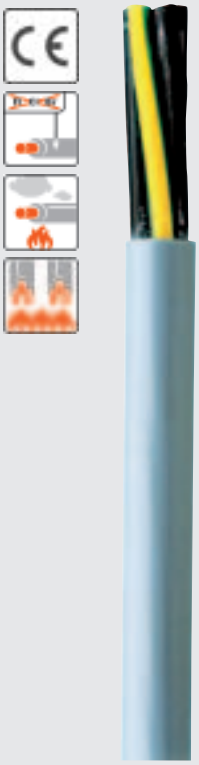
Application:
Flexible power, process control and instrumentation cable for industry and machinery environment with increased requirements to electromagnetic compatibility. The cable is resistant against most usual chemicals, oil and grease.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031669	04X4	gy	290	12,7	320	dr.
031670	04X6	gy	360	15,7	470	dr.
031671	04X10	gy	535	19,2	740	dr.
031672	04X16	gy	910	22,5	1450	dr.
031673	04X25	gy	1310	34,1	1520	dr.
031674	04X35	gy	1693	35,6	2010	dr.
031675	04X50	gy	2342	41,1	2840	dr.
031586	04X70	gy	3090	42,9	3880	dr.
031587	04X95	gy	4060	44,7	5070	dr.
031676	04X120	gy	5299	49,2	6430	dr.
031734	04X150	gy	7033	70,1	7650	dr.
031733	04X185	gy	9023	62,1	9300	dr.

H-JZ

Application:
Halogen free and LSOH control cable for multiple purposes in control and measurement circuits with increased requirements to electromagnetic compatibility.

core identification	gn-ye + numbers
protective conductor	yes
nominal voltage U_o	300 V
nominal voltage U	500 V
conductor construction	fine stranded, class 5
conductor material	bare copper
insulation	FRNC-compound HI2
maximum temperature at conductor	70 °C
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +70 °C



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031620	03X0,75	gy	22	6	66	dr., c. 100, c. 50
031621	04X0,75	gy	29	6,5	78	dr., c. 100, c. 50
031622	05X0,75	gy	36	7	91	dr., c. 100, c. 50
031623	07X0,75	gy	50,4	7,5	124	dr., c. 100, c. 50
031624	12X0,75	gy	86,4	10,2	191	dr., c. 100
031625	18X0,75	gy	130	11,9	283	dr., c. 100, c. 50
031626	25X0,75	gy	180	14,6	388	dr., c. 100
032945	34X0,75	gy	245	16,4	641	dr.
032946	37X0,75	gy	260	17,2	795	dr.
032947	41X0,75	gy	296	17,6	800	dr.
032948	42X0,75	gy	302	17,8	715	dr.
032949	50X0,75	gy	360	19,8	815	dr.
032950	61X0,75	gy	439	20,9	1028	dr.
031627	03X1	gy	29	6,4	68	dr., c. 100, c. 50
031628	04X1	gy	38,4	7	85	dr., c. 100, c. 50
031629	05X1	gy	48	7,8	110	dr., c. 100, c. 50
031630	07X1	gy	67	8,1	148	dr., c. 100, c. 50
032951	08X1	gy	77	9,4	200	dr.
032953	10X1	gy	96	10,4	245	dr.
031631	12X1	gy	115,2	11,1	232	dr., c. 100, c. 50
032954	16X1	gy	154	12	363	dr.
031632	18X1	gy	173	13,4	328	dr., c. 100, c. 50
032955	20X1	gy	192	13,5	438	dr.
031633	25X1	gy	240	16,2	531	dr., c. 100, c. 50
032956	34X1	gy	326	17,4	688	dr.
032957	37X1	gy	355	18,4	833	dr.
032958	41X1	gy	394	18,9	925	dr.
032959	42X1	gy	403	18,9	835	dr.
032960	50X1	gy	480	21	978	dr.
032961	61X1	gy	586	22,2	1140	dr.
032962	65X1	gy	628	22,8	1304	dr.
031634	03X1,5	gy	43,2	7,3	95	dr., c. 100, c. 50
031635	04X1,5	gy	58	7,8	117	dr., c. 100, c. 50
031636	05X1,5	gy	72	8,9	152	dr., c. 100, c. 50
031637	07X1,5	gy	101	9,8	192	dr., c. 100, c. 50
032964	08X1,5	gy	115	10,6	278	dr.
032965	10X1,5	gy	144	11,7	309	dr.
031638	12X1,5	gy	173	13,2	312	dr., c. 100, c. 50
032966	16X1,5	gy	230	13,8	415	dr.
031639	18X1,5	gy	259,2	15,9	456	dr., c. 100, c. 50
032967	20X1,5	gy	288	15,2	585	dr.
031640	25X1,5	gy	360	19,2	638	dr., c. 100, c. 50
032968	34X1,5	gy	490	19,8	890	dr.
032969	37X1,5	gy	533	20,2	1140	dr.
032970	50X1,5	gy	720	23,7	1410	dr.
032971	61X1,5	gy	878	25,3	1630	dr.
032972	65X1,5	gy	936	26	1810	dr.

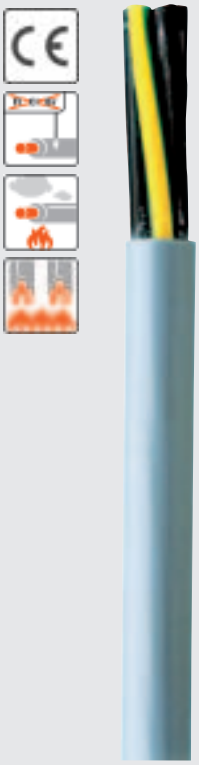
H-JZ

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031648	03X2,5	gy	72	9	148	dr., c. 100, c. 50
031649	04X2,5	gy	96	10	236	dr., c. 100, c. 50
031650	05X2,5	gy	120	11	263	dr., c. 100, c. 50
031651	07X2,5	gy	168	12,7	298	dr., c. 100
032973	08X2,5	gy	192	13,2	378	dr.
032974	10X2,5	gy	240	14,7	444	dr.
031645	12X2,5	gy	288	16,5	522	dr., c. 100
032975	16X2,5	gy	384	17,5	730	dr.
031646	18X2,5	gy	432	18,4	749	dr., c. 100
032976	20X2,5	gy	480	18,7	1070	dr.
031647	25X2,5	gy	600	23,8	1024	dr.
032977	30X2,5	gy	720	23,7	1280	dr.
031660	03X4	gy	115,2	11,8	235	dr.
032654	04X4	gy	154	11,7	305	dr.
031661	05X4	gy	192	13,2	363	dr.
032979	07X4	gy	269	16	468	dr.
032980	08X4	gy	307	17,8	603	dr.
032981	10X4	gy	384	19,6	798	dr.
032982	12X4	gy	461	20,2	984	dr.
032983	16X4	gy	614	22,8	1350	dr.
032986	03X6	gy	173	12,7	390	dr.
032655	04X6	gy	230,4	14,1	465	dr.
031662	05X6	gy	288	16,5	583	dr.
032987	07X6	gy	403,2	17,6	782	dr.
032989	03X10	gy	288	16,2	750	dr.
032990	04X10	gy	384	18	746	dr.
032991	05X10	gy	480	19,8	917	dr.
032992	07X10	gy	672	22,5	1283	dr.
032994	03X16	gy	461	18,7	998	dr.
032995	04X16	gy	614	20,6	1089	dr.
032996	05X16	gy	768	23,5	1285	dr.
032997	07X16	gy	1075	26,2	1835	dr.
032998	03X25	gy	720	24,5	1238	dr.
031663	04X25	gy	960	26	1582	dr.
032999	05X25	gy	1200	30,8	1920	dr.
033000	03X35	gy	1008	29,8	1664	dr.
033001	04X35	gy	1344	33,7	1980	dr.
033002	05X35	gy	1680	37,7	2765	dr.
033003	03X50	gy	1440	33,8	2678	dr.
033004	04X50	gy	1920	38	2824	dr.
033005	05X50	gy	2400	42,1	4133	dr.
033006	03X70	gy	2016	40,2	3339	dr.
033007	04X70	gy	2688	44,2	4295	dr.
033008	05X70	gy	3360	48,5	5715	dr.
033009	03X95	gy	2736	46,6	4914	dr.
033010	04X95	gy	3648	51,2	5817	dr.
033011	05X95	gy	4560	56,3	7278	dr.
033012	03X120	gy	3456	49,8	5515	dr.
033013	04X120	gy	4608	54,8	7350	dr.

H-OZ

Application:
Halogen free and LSOH control cable for multiple purposes in control and measurement circuits with increased requirements to electromagnetic compatibility.

core identification	numbers
protective conductor	no
nominal voltage U_o	300 V
nominal voltage U	500 V
conductor construction	fine stranded, class 5
conductor material	bare copper
insulation	FRNC-compound HI2
maximum temperature at conductor	70 °C
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +70 °C



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032885	02X0,75	gy	14,4	5,5	33	dr.
032952	02X1	gy	19,2	5,7	58	dr.
032963	02X1,5	gy	29	6,3	87	dr.
032939	02X2,5	gy	48	7,7	124	dr.
032978	02X4	gy	77	9,8	195	dr.
032985	02X6	gy	115,2	12	258	dr.
032988	02X10	gy	192	15	490	dr.
032993	02X16	gy	307	17,3	665	dr.
034935	02X0,5	gy	9,6	5,1	38	dr.

CH-JZ

Application:
LSOH control cable for multiple purposes in control and measurement circuits with increased requirements to electromagnetic compatibility. For indoor use only.

core identification	gn-ye + numbers
protective conductor	yes
nominal voltage U	500 V
nominal voltage U_o	300 V
conductor material	bare copper strand
conductor construction	fine stranded, class 5
insulation	FRNC-compound HI2
maximum temperature at conductor	70 °C
screen coverage	70 %
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032741	03X0,5	gy	50	6,2	55	dr.
032742	04X0,5	gy	55	6,6	66	dr.
032743	05X0,5	gy	66	7,2	80	dr.
032744	07X0,5	gy	80,5	8,6	108	dr.
032745	12X0,5	gy	139	9,9	162	dr.
032746	18X0,5	gy	156,2	11,9	227	dr.
032747	25X0,5	gy	250	13,7	317	dr.
032749	03X0,75	gy	58	6,7	70	dr.
032750	04X0,75	gy	64	8	80	dr.
032751	05X0,75	gy	77,4	8,3	100	dr.

CH-JZ

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032752	07X0,75	gy	102	9,5	133	dr.
032753	12X0,75	gy	177	11,3	203	dr.
032159	18X0,75	gy	245	14,8	284	dr.
032160	25X0,75	gy	276	15,8	380	dr.
032755	03X1	gy	65,3	6,9	80	dr.
032756	04X1	gy	78,1	7,5	98	dr.
032757	05X1	gy	91	8,5	121	dr.
032758	07X1	gy	117	9,9	160	dr.
032759	12X1	gy	188	11,7	245	dr.
032760	18X1	gy	286	13,9	376	dr.
032761	25X1	gy	389	16,4	502	dr.
031889	03X1,5	gy	77	7,5	119	dr.
031867	04X1,5	gy	96,2	8,2	125	dr.
031860	05X1,5	gy	125	8,9	182	dr.
031890	07X1,5	gy	159	11,3	232	dr.
031891	12X1,5	gy	254,5	13	360	dr.
031892	18X1,5	gy	367,7	15,6	507	dr.
031893	25X1,5	gy	492,4	19,1	694	dr.
032763	03X2,5	gy	149	9,5	160	dr.
031819	04X2,5	gy	174,2	10	194	dr.
031852	05X2,5	gy	200,8	11,5	386	dr.
031854	07X2,5	gy	288	13,8	498	dr.
031973	12X2,5	gy	441	18,2	796	dr.
032765	03X4	gy	178,1	10,7	249	dr.
031843	04X4	gy	248	11,9	288	dr.
032161	05X4	gy	328	13,1	337	dr.
032766	07X4	gy	388	15,1	488	dr.
032768	03X6	gy	280	12,5	347	dr.
031856	04X6	gy	362	14,2	399	dr.
031853	05X6	gy	453	16,2	770	dr.
032769	07X6	gy	542	19,2	670	dr.
032771	03X10	gy	385	15,9	501	dr.
031820	04X10	gy	558	17,8	698	dr.
032772	05X10	gy	640	19,6	828	dr.
032773	07X10	gy	850	21,6	1254	dr.
031857	04X16	gy	910	20,8	987	dr.
032774	05X16	gy	1051	22,9	1207	dr.
032775	07X16	gy	1470	25,2	1816	dr.
032776	03X25	gy	900	24,8	1214	dr.
031858	04X25	gy	1289	26,2	1592	dr.
032777	05X25	gy	1486	29,4	2002	dr.
032778	03X35	gy	1130	27,9	1622	dr.
032040	04X35	gy	1690	33,5	2380	dr.
032779	05X35	gy	2015	33,8	2664	dr.
032780	03X50	gy	1766	35,7	2471	dr.
032129	04X50	gy	2325	39,2	3003	dr.
032781	05X50	gy	2781	43,3	3882	dr.
032782	03X70	gy	2218	41,4	3840	dr.
032656	04X70	gy	3089	45,3	4939	dr.
032783	05X70	gy	3696	49,6	6572	dr.
032784	03X95	gy	3010	47,7	5651	dr.
032657	04X95	gy	4013	52,4	6690	dr.
032785	05X95	gy	5016	57,5	8370	dr.
032786	03X120	gy	3802	51	6342	dr.
032787	04X120	gy	5067	56,1	8453	dr.

CH-OZ

Application:
LSOH control cable for multiple purposes in control and measurement circuits with increased requirements to electromagnetic compatibility. For indoor use only.

core identification	numbers
protective conductor	no
nominal voltage U_o	300 V
nominal voltage U	500 V
conductor material	bare copper strand
conductor construction	fine stranded, class 5
insulation	FRNC-compound HI2
maximum temperature at conductor	70 °C
screen coverage	70 %
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032740	02X0,5	gy	35	5,8	47	dr.
032748	02X0,75	gy	45	6,4	58	dr.
032754	02X1	gy	50	6,6	64	dr.
031888	02X1,5	gy	63,3	8,2	97	dr.
032762	02X2,5	gy	98	8,5	132	dr.

H05VV5-F

Application:
Flexible power, process control and instrumentation cable for industry and machinery environment. The cable is resistant against most usual chemicals, oil and grease.

standard	VDE 0281-13
core identification	gn-ye + numbers
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC TI2
maximum temperature at conductor	70 °C
sheathing material	PVC TM2
bending radius, fixed installation	4 x D_A
bending radius, moved application	12,5 x D_A
temperature, moved/ during installation	-5 - +70 °C
max. operating temperature, fixed	-40 - +70 °C
oil resistant acc. to EN 60811-2-1	yes
flame retardant	VDE 0482-332-1-2/IEC 60332-1

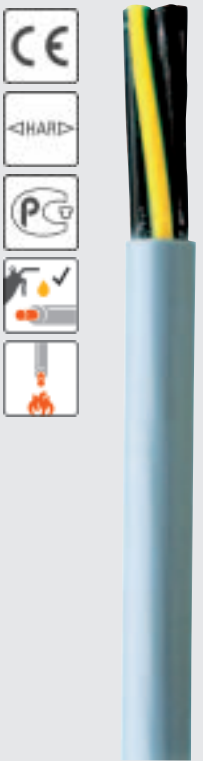
p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031478	03X0,5	gy	14,4	6,5	51	dr.
031479	04X0,5	gy	19,2	7,1	62	dr.
031480	05X0,5	gy	24	7,7	75	dr.
031481	07X0,5	gy	33,6	9,5	117	dr.
031482	08X0,5	gy	38,4	10,1	134	dr.
031483	12X0,5	gy	57,6	11,7	174	dr.
031484	18X0,5	gy	86,4	13,6	248	dr.

H05VV5-F

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031485	21X0,5	gy	100,8	14,9	297	dr.
031486	25X0,5	gy	120	16,7	348	dr.
031487	30X0,5	gy	144	17,3	420	dr.
031488	32X0,5	gy	153,6	17,9	448	dr.
031489	34X0,5	gy	163,2	19,2	476	dr.
031490	50X0,5	gy	240	22,3	650	dr.
031491	52X0,5	gy	249,6	22,3	676	dr.
031492	60X0,5	gy	288	23,6	753	dr.
031493	03X0,75	gy	21,6	7,2	61	dr., c. 100, c. 50
031494	04X0,75	gy	28,8	7,8	75	dr., c. 100
031495	05X0,75	gy	36	9	100	dr., c. 100
031496	07X0,75	gy	50,4	10,5	141	dr.
031497	09X0,75	gy	64,8	12,4	160	dr.
031498	12X0,75	gy	86,4	13	214	dr., c. 100
031499	15X0,75	gy	108	14,4	255	dr.
031500	18X0,75	gy	129,6	15,1	306	dr.
031501	25X0,75	gy	180	18,6	427	dr.
031502	32X0,75	gy	230,4	20,6	555	dr.
031503	34X0,75	gy	244,8	21,3	590	dr.
031504	41X0,75	gy	295,2	22,8	699	dr.
031505	42X0,75	gy	302,4	23	716	dr.
031506	50X0,75	gy	360	24,8	807	dr.
031507	52X0,75	gy	374,4	25	839	dr.
031508	60X0,75	gy	432	26,9	985	dr.
031509	03X1	gy	28,8	7,4	71	dr., c. 100
031510	04X1	gy	38,4	8	89	dr., c. 100
031511	05X1	gy	48	9,2	116	dr., c. 100
031512	07X1	gy	67,2	10,8	166	dr.
031513	09X1	gy	86,4	12,7	209	dr.
031514	12X1	gy	115,2	13,4	251	dr.
031515	14X1	gy	134,4	14	297	dr.
031516	18X1	gy	172,8	16,2	385	dr.
031517	25X1	gy	240	19,8	534	dr.
031518	32X1	gy	307,2	21,2	658	dr.
031519	34X1	gy	326,4	22	700	dr.
031520	41X1	gy	393,6	23,6	847	dr.
031521	50X1	gy	480	26,2	993	dr.
031522	52X1	gy	499,2	26,4	1010	dr.
031523	56X1	gy	537,6	27	1087	dr.
031524	60X1	gy	576	27,8	1165	dr.
031525	03X1,5	gy	43,2	8	92	dr., c. 100, c. 50
031526	04X1,5	gy	57,6	9,2	125	dr., c. 100
031527	05X1,5	gy	72	10	155	dr., c. 100
031528	07X1,5	gy	100,8	12,2	227	dr.
031529	09X1,5	gy	129,6	13,9	248	dr.
031530	12X1,5	gy	172,8	14,6	330	dr., c. 100
031531	14X1,5	gy	201,6	15,4	394	dr.
031532	18X1,5	gy	259,2	17,7	506	dr.
031533	25X1,5	gy	360	21,6	700	dr.
031534	32X1,5	gy	460,8	23,2	865	dr.
031535	34X1,5	gy	489,6	24,1	920	dr.
031536	42X1,5	gy	604,8	26,4	1120	dr.
031537	50X1,5	gy	720	28,8	1320	dr.
031538	52X1,5	gy	748,8	29	1352	dr.
031539	60X1,5	gy	864	30,5	1560	dr.
031972	61X1,5	gy	878	30,9	1639	dr.
031540	03X2,5	gy	72	9,7	146	dr., c. 100
031541	04X2,5	gy	96	11	196	dr., c. 100
031542	05X2,5	gy	120	12,1	235	dr., c. 100
031543	07X2,5	gy	168	14,2	343	dr.
031544	12X2,5	gy	288	17,7	535	dr.
031545	18X2,5	gy	432	21,3	800	dr.
031546	25X2,5	gy	600	25,9	1100	dr.
031547	32X2,5	gy	768	27,9	1350	dr.
031548	34X2,5	gy	816	28,9	1436	dr.
031549	42X2,5	gy	1008	31,6	1753	dr.

H05VV5-F

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031550	50X2,5	gy	1200	34,4	2070	dr.
031551	52X2,5	gy	1248	34,6	2180	dr.
031552	60X2,5	gy	1440	37,1	2515	dr.
034910	04G10	gy	384	18,1	701	dr.



H05VVC4V5-K

Application:
Flexible power, process control and instrumentation cable for industry and machinery environment with increased requirements to electromagnetic compatibility. The cable is resistant against most usual chemicals, oil and grease.

standard	VDE 0281-13
core identification	gn-ye + numbers
nominal voltage U_o	300 V
nominal voltage U	500 V
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC TI2
maximum temperature at conductor	70 °C
inner sheath	PVC
screen coverage	70 %
transfer impedance	250 Ohm/km
sheathing material	PVC TM2
bending radius, fixed installation	6 x D_A
bending radius, moved application	20 x D_A
max. operating temperature, fixed	-40 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	yes

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033868	02X0,5	gy	32	8,1	90	dr.
033850	03X0,5	gy	36	8,4	109	dr.
033869	04X0,5	gy	58	9,1	126	dr.
033851	05X0,5	gy	48	10,1	156	dr.
033870	06X0,5	gy	58	10,7	176	dr.
033871	07X0,5	gy	86	11,4	199	dr.

H05VVC4V5-K

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033874	08X0,5	gy	72	12,5	211	dr.
033875	09X0,5	gy	80	12,5	230	dr.
033852	12X0,5	gy	105	13,5	280	dr.
033876	14X0,5	gy	114	14,2	302	dr.
033971	18X0,5	gy	170	15,8	400	dr.
033972	25X0,5	gy	268	18,6	554	dr.
033973	27X0,5	gy	236	18,6	599	dr.
033974	34X0,5	gy	298	20,8	649	dr.
033975	36X0,5	gy	317	20,8	620	dr.
033976	41X0,5	gy	349	23,1	770	dr.
033977	42X0,5	gy	349	23,1	720	dr.
033978	50X0,5	gy	470	25,1	966	dr.
033979	61X0,5	gy	530	26,8	1122	dr.
033980	65X0,5	gy	563	28,4	1198	dr.
031453	03X0,75	gy	55	9,1	125	dr.
031454	04X0,75	gy	67	10,3	150	dr.
031455	05X0,75	gy	79	11	180	dr.
031456	07X0,75	gy	109	12,4	230	dr.
031457	12X0,75	gy	184,5	15,2	310	dr.
031458	18X0,75	gy	257,3	18,2	470	dr.
031459	25X0,75	gy	318,6	21,5	640	dr.
031460	03X1	gy	75	9,6	140	dr., c. 100
031461	04X1	gy	86	10,7	170	dr.
031462	05X1	gy	102	11,4	200	dr.
031463	07X1	gy	127	12,9	230	dr.
031464	12X1	gy	198	16,9	410	dr.
031465	18X1	gy	303,6	19,4	550	dr.
031466	25X1	gy	411,9	22,8	735	dr.
034937	34X1	gy	500	24,1	920	dr.
034968	36X1	gy	511	23,8	1001	dr.
034969	48X1	gy	656	23,8	1270	dr.
034955	50X1	gy	736	28,9	1290	dr.
034956	65X1	gy	914	32,4	1510	dr.
031467	03X1,5	gy	95	10,7	180	dr.
031468	04X1,5	gy	116	11,5	200	dr.
031469	05X1,5	gy	130	12,1	235	dr.
031470	07X1,5	gy	218	14,1	330	dr.
031471	12X1,5	gy	309,7	18	470	dr.
031472	18X1,5	gy	411,4	20,8	680	dr.
031473	25X1,5	gy	546,5	25	930	dr.
031741	34X1,5	gy	754	26,3	1353	dr.
031474	03X2,5	gy	148	12	240	dr.
031475	04X2,5	gy	163	13,1	290	dr.
031476	05X2,5	gy	200	14,2	340	dr.
031477	07X2,5	gy	288,9	16,3	465	dr.
034737	12X2,5	gy	517	24,3	748	dr.
034738	18X2,5	gy	598	25,6	1051	dr.
034739	25X2,5	gy	897	29,3	1380	dr.
034668	07X6	gy	505	28,4	1031	dr.
034885	05X10	gy	604	24,6	927	dr.
034886	05X16	gy	1030	28,4	1626	dr.
034887	05X25	gy	1420	35,1	1972	dr.
034888	05X35	gy	2020	39,4	2780	dr.

F-CY-JZ

Application:
Flexible power, process control and instrumentation cable for industry and machinery environment with increased requirements to electromagnetic compatibility. The cable is resistant against most usual chemicals, oil and grease.

core identification	gn-ye + numbers
protective conductor	yes
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC
maximum temperature at conductor	70 °C
screen coverage	70 %
sheathing material	PVC DMV 5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	no
bending radius, fixed installation	10 x D_A
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-5 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033293	03X0,75	gy	50	6,5	69	dr.
033294	04X0,75	gy	61	7,1	88	dr.
033295	05X0,75	gy	72	7,8	120	dr.
033297	07X0,75	gy	98	8,6	153	dr.
033298	08X0,75	gy	110	9,4	145	dr.
033300	12X0,75	gy	151	11,1	220	dr.
033303	18X0,75	gy	211	12,9	306	dr.
033308	25X0,75	gy	280	15,6	431	dr.
033312	34X0,75	gy	370	17,8	521	dr.
033314	37X0,75	gy	386	18,1	592	dr.
032857	03X1	gy	76	7,4	100	dr.
033322	04X1	gy	80	7,6	117	dr.
032133	05X1	gy	92	7,8	127	dr.
033324	07X1	gy	120	9,1	178	dr.
033326	12X1	gy	186	12,4	275	dr.
033332	25X1	gy	360	18	607	dr.
033333	27X1	gy	360	16,2	562	dr.
033336	34X1	gy	454	20,6	746	dr.
033339	41X1	gy	521	21,4	843	dr.
033340	50X1	gy	662	24,2	1015	dr.
033341	61X1	gy	710	27,3	1205	dr.
033345	03X1,5	gy	90	7,7	115	dr.
033346	04X1,5	gy	110	8,3	149	dr.
032876	05X1,5	gy	125	9,4	180	dr.
033347	07X1,5	gy	152	10,7	230	dr.
033350	12X1,5	gy	268	13,5	354	dr.
033266	18X1,5	gy	373	15,8	523	dr.
033357	25X1,5	gy	530	20,3	722	dr.
033361	34X1,5	gy	683	21,3	950	dr.
033365	41X1,5	gy	734	22,5	1071	dr.
033366	50X1,5	gy	977	26,7	1303	dr.
033367	61X1,5	gy	1120	29,1	1705	dr.
033371	03X2,5	gy	148	9,1	180	dr.
033372	04X2,5	gy	174	10,2	220	dr.
032136	05X2,5	gy	203	10,9	270	dr.
033373	07X2,5	gy	253	13,7	342	dr.
033375	12X2,5	gy	441	18,2	580	dr.
033376	18X2,5	gy	570	18,9	879	dr.
033379	04X4	gy	248	12,9	306	dr.
032137	05X4	gy	331	13,2	370	dr.
033383	04X6	gy	343	14,7	422	dr.

F-CY-JZ

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033384	05X6	gy	441	16,4	506	dr.
033388	04X10	gy	535	18,9	731	dr.
033389	05X10	gy	714	20,7	853	dr.

F-CY-OZ

core identification	numbers
protective conductor	no
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC
maximum temperature at conductor	70 °C
screen coverage	70 %
sheathing material	PVC DMV 5
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	no
bending radius, fixed installation	10 x D_A
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-5 - +70 °C

Application:
Flexible power, process control and instrumentation cable for industry and machinery environment with increased requirements to electromagnetic compatibility. The cable is resistant against most usual chemicals, oil and grease.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032097	02X0,75	gy	43	6,2	57	dr.
032098	03X0,75	gy	53	6,5	66	dr.
032099	04X0,75	gy	62	7,1	89	dr.
032100	05X0,75	gy	73	7,8	126	dr.
032101	07X0,75	gy	98	8,6	156	dr.
033321	02X1	gy	55	6,7	76	dr.
033344	02X1,5	gy	65	7,3	93	dr.
033370	02X2,5	gy	98	8,3	141	dr.

Y-JZ 600

Application:
Flexible power, process control and instrumentation cable for industry, machinery and outdoor environment. The cable is resistant against most usual chemicals, oil and grease.

nominal voltage U_o	600 V
nominal voltage U	1000 V
test voltage	4 kV
core identification	gn-ye + numbers
protective conductor	yes
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC
sheathing material	special PVC-compound
maximum temperature at conductor	70 °C
max. operating temperature, fixed	-40 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	4 x D_A
bending radius, moved application	7,5 x D_A
for outdoor use	yes
flame retardant	VDE 0482-332-1-2/IEC 60332-1

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033581	03X0,75	bk	22	8,7	91	dr.
033582	04X0,75	bk	29	9,2	120	dr.
033583	05X0,75	bk	36	9,9	134	dr.
033584	06X0,75	bk	43,2	10,3	165	dr.
033585	07X0,75	bk	50,4	11,1	177	dr.
033586	08X0,75	bk	58	11,7	211	dr.
033587	09X0,75	bk	65	12,6	226	dr.
033588	10X0,75	bk	72	12,8	236	dr.
033589	12X0,75	bk	86,4	13,4	248	dr.
033590	14X0,75	bk	101	14	283	dr.
033591	15X0,75	bk	108	14,8	317	dr.
033592	18X0,75	bk	130	15,6	350	dr.
033593	20X0,75	bk	144	17	392	dr.
033594	21X0,75	bk	151,2	17,3	421	dr.
033595	25X0,75	bk	180	18,9	478	dr.
033596	32X0,75	bk	230,4	20,6	592	dr.
033597	34X0,75	bk	245	21,5	626	dr.
033598	37X0,75	bk	266,4	21,6	690	dr.
033599	40X0,75	bk	288	23,2	718	dr.
033600	41X0,75	bk	296	23,2	733	dr.
033601	42X0,75	bk	302,4	23,3	760	dr.
033602	50X0,75	bk	360	25,6	871	dr.
033603	61X0,75	bk	439,2	28,2	1060	dr.
033604	65X0,75	bk	468	29	1105	dr.
033605	80X0,75	bk	576	31,4	1490	dr.
033606	100X0,75	bk	720	36,2	1874	dr.
033608	03X1	bk	29	9	98	dr.
033609	04X1	bk	38,4	9,6	110	dr.
033610	05X1	bk	48	10,4	136	dr.
033612	07X1	bk	67,2	12,1	179	dr.
033615	10X1	bk	96	14,1	268	dr.
033616	12X1	bk	115,2	14,5	287	dr.
033619	18X1	bk	173	17,3	408	dr.
033623	25X1	bk	240	21,1	567	dr.
033626	34X1	bk	326,4	24	751	dr.
033640	03X1,5	bk	43,2	10,1	122	dr.
033641	04X1,5	bk	58	10,8	150	dr.
033477	05X1,5	bk	72	11,7	176	dr.
032045	07X1,5	bk	101	13,5	192	dr.
033647	12X1,5	bk	173	16,6	363	dr.
031832	18X1,5	bk	259,2	19,7	520	dr.

Y-JZ 600

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033653	25X1,5	bk	360	23,9	740	dr.
033655	34X1,5	bk	490	27,2	959	dr.
033657	42X1,5	bk	605	29,5	1110	dr.
033658	50X1,5	bk	720	32,5	1399	dr.
033660	61X1,5	bk	878,4	36,8	1680	dr.
033661	65X1,5	bk	936	38,2	1875	dr.
033663	100X1,5	bk	1440	45,6	2675	dr.
033665	03X2,5	bk	72	11,3	176	dr.
033666	04X2,5	bk	96	12,2	209	dr.
033478	05X2,5	bk	120	13,3	252	dr.
033667	07X2,5	bk	168	15,2	335	dr.
033669	12X2,5	bk	288	18,7	544	dr.
033671	18X2,5	bk	432	22	788	dr.
033673	25X2,5	bk	600	26,9	1101	dr.
033681	04X4	bk	154	14	311	dr.
033682	05X4	bk	192	15,3	398	dr.
033687	04X6	bk	230,4	15,7	429	dr.
033688	05X6	bk	288	17,9	602	dr.
033691	04X10	bk	384	19,5	759	dr.
033692	05X10	bk	480	23	927	dr.
033695	04X16	bk	614,4	21,9	1093	dr.

Y-OZ 600

core identification	numbers
protective conductor	no
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC
sheathing material	special PVC-compound
maximum temperature at conductor	70 °C
max. operating temperature, fixed	-40 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	4 x D_A
bending radius, moved application	7,5 x D_A
for outdoor use	yes
flame retardant	VDE 0482-332-1-2/IEC 60332-1

Application:
Flexible power, process control and instrumentation cable for industry, machinery and outdoor environment. The cable is resistant against most usual chemicals, oil and grease.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033580	02X0,75	bk	14,4	8,3	81	dr.
034936	03X0,75	bk	22	8,7	91	dr.
033607	02X1	bk	19,2	8,6	84	dr.
033734	03X1	bk	29	9	98	dr.
033639	02X1,5	bk	29	9,6	103	dr.
033733	03X1,5	bk	43,2	10,1	122	dr.
033664	02X2,5	bk	48	10,8	152	dr.
034979	03X2,5	bk	72	10,1	175	dr.
034980	04X2,5	bk	96	12,2	182	dr.

CY-JZ 600

Application:
Flexible power, process control and instrumentation cable for industry and machinery environment with increased requirements to electromagnetic compatibility. The cable is resistant against most usual chemicals, oil and grease. For indoor and outdoor application.

nominal voltage U_o	600 V
nominal voltage U	1000 V
test voltage	4 kV
core identification	gn-ye + numbers
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC
maximum temperature at conductor	70 °C
inner sheath	PVC
screen coverage	70 %
sheathing material	special PVC-compound
for outdoor use	yes
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	no
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	5 x D_A
bending radius, moved application	10 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032061	03X0,75	bk	57	9	155	dr.
033195	04X0,75	bk	68	11,4	214	dr.
033196	05X0,75	bk	79	12,1	250	dr.
033197	07X0,75	bk	97	13	319	dr.
033198	12X0,75	bk	169	15,8	437	dr.
033199	18X0,75	bk	229	18	588	dr.
033741	25X0,75	bk	296	22,8	746	dr.
032627	41X0,75	bk	415	24,7	908	dr.
033166	03X1	bk	67	11,2	196	dr.
033167	04X1	bk	97	11,8	231	dr.
033168	05X1	bk	94	12,6	270	dr.
032846	07X1	bk	122	14,5	289	dr.
033169	12X1	bk	204	17,4	493	dr.
033170	18X1	bk	280	20,7	658	dr.
033171	25X1	bk	369	24,8	870	dr.
032626	03X1,5	bk	87	10,9	187	dr.
033173	04X1,5	bk	104	12,2	265	dr.
032875	05X1,5	bk	125	13,3	289	dr.
033174	07X1,5	bk	180	16	416	dr.
034515	09X1,5	bk	224		482	dr.
033175	12X1,5	bk	284	19,6	641	dr.
033176	18X1,5	bk	391	23,4	872	dr.
033177	25X1,5	bk	521	28,2	1211	dr.
033179	03X2,5	bk	124	13,5	326	dr.
033180	04X2,5	bk	170	14,6	379	dr.
033181	05X2,5	bk	204	15,7	471	dr.
033182	07X2,5	bk	268	17,9	590	dr.
033183	12X2,5	bk	423	21,9	897	dr.
033184	18X2,5	bk	572	26,1	1355	dr.
033185	25X2,5	bk	740	31,9	1995	dr.
033202	04X4	bk	238	16,7	557	dr.
033203	05X4	bk	303	18,6	695	dr.
033212	12X4	bk	581	26,9	1510	dr.
033204	04X6	bk	319	18,7	723	dr.
033205	05X6	bk	421	20,7	984	dr.
033209	04X10	bk	576	21,9	1267	dr.
033210	05X10	bk	620	24,1	1635	dr.

CY-OZ 600

conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC
maximum temperature at conductor	70 °C
inner sheath	PVC
screen coverage	70 %
sheathing material	special PVC-compound
for outdoor use	yes
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	no
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	5 x D_A
bending radius, moved application	10 x D_A

Application:
Flexible power, process control and instrumentation cable for industry and machinery environment with increased requirements to electromagnetic compatibility. The cable is resistant against most usual chemicals, oil and grease. For indoor and outdoor application.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033186	02X0,5	bk	38	10,1	147	dr.
033194	02X0,75	bk	46	8,7	143	dr.
033165	02X1	bk	52	10,8	174	dr.
033172	02X1,5	bk	69	10,2	162	dr., c. 100
033178	02X2,5	bk	99	11,5	272	dr.
033200	02X4	bk	156	14,3	306	dr.

SY-JZ

nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	3000 V
core identification	gn-ye + numbers
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	70 °C
insulation	PVC TI2
inner sheath	PVC TM2
armour	steel wire braiding, galvanized
sheathing material	PVC TM2
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	6 x D_A
bending radius, moved application	20 x D_A

Application:
Flexible power, process control and instrumentation cable for industry and mechanical engeneeringt. The cable is resistant against most usual chemicals, oil and grease.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033035	03X0,75	TR	22	8,2	110	dr.
031897	04X0,75	TR	28,8	8,6	126	dr.
033036	05X0,75	TR	36	9,5	164	dr.
033037	07X0,75	TR	50,4	10,5	195	dr.

SY-JZ

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032026	12X0,75	TR	86	12,8	292	dr.
033042	18X0,75	TR	130	14,8	378	dr.
033044	25X0,75	TR	180	17,4	523	dr.
033046	34X0,75	TR	245	19,4	655	dr.
033047	41X0,75	TR	296	21,1	723	dr.
033048	50X0,75	TR	360	23,2	866	dr.
033049	61X0,75	TR	439	24,9	1014	dr.
033051	03X1	TR	29	8,6	131	dr.
033052	04X1	TR	38,4	9,4	161	dr.
031606	05X1	TR	48	9,9	164	dr.
033054	07X1	TR	67	11,2	220	dr.
033057	12X1	TR	115,2	13,7	347	dr.
033059	18X1	TR	173	15,7	426	dr.
033061	25X1	TR	240	18,4	616	dr.
033062	34X1	TR	326,4	20,5	804	dr.
031984	03X1,5	TR	43	9,5	102	dr.
031604	04X1,5	TR	58	10,1	173	dr.
031605	05X1,5	TR	72	10,9	202	dr.
031710	07X1,5	TR	101	12,3	248	dr.
031607	12X1,5	TR	173	15,2	396	dr.
033077	18X1,5	TR	259,2	17,4	605	dr.
032634	25X1,5	TR	360	20,5	752	dr.
033086	03X2,5	TR	72	11,3	226	dr.
031445	04X2,5	TR	96	12,9	249	dr.
033087	05X2,5	TR	120	13,2	324	dr.
033088	07X2,5	TR	168	14,3	399	dr.
033089	12X2,5	TR	288	18,2	643	dr.
033091	18X2,5	TR	432	21,4	846	dr.
031444	04X4	TR	153,6	13,9	348	dr.
033098	05X4	TR	192	15,1	470	dr.
033101	04X6	TR	230,4	16,1	531	dr.
033104	04X10	TR	384	19,9	837	dr.
033107	04X16	TR	614	22,8	1396	dr.
033110	04X25	TR	960	28,9	1983	dr.
033112	04X35	TR	1344	32,1	2550	dr.
033114	04X50	TR	1920	38,2	3502	dr.

2YSL(St)CYv

nominal voltage U_o	600 V
nominal voltage U	1000 V
maximum permitted operating voltage in 3-phase systems	1,7 kV
test voltage	3 kV
core identification	colours acc. VDE 0293 (HD308)
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	polyethylene
screen coverage	75 %
sheathing material	PVC, enforced
transfer impedance	250 Ohm/km
flame retardant	VDE 0482-332-1-2/IEC 60332-1
maximum temperature at conductor	70 °C
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +70 °C
bending radius, fixed installation	10 x D_A
bending radius, moved application	25 x D_A
oil resistant acc. to EN 60811-2-1	yes

Application:
The cable has been developed for connecting motors to inverse rectifiers under consideration of EMC-requirements. It may be used under medium mechanical stress for fixed installations and temporary movement. Also for outdoor installation, but not for direct burial. The cable is resistant against most usual oil and grease.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031719	04X1,5	bk	95	10,4	154	dr., c. 50
031720	04X2,5	bk	150	12,3	229	dr.
031721	04X4	bk	235	14,5	339	dr.
031712	04X6	bk	320	16,8	451	dr.
031722	04X10	bk	533	19,7	667	dr.
031723	04X16	bk	789	22	892	dr.
031724	04X25	bk	1236	27	1440	dr.
031713	04X35	bk	1663	30,3	1861	dr.
031725	04X50	bk	2345	35	2547	dr.
031727	04X70	bk	3196	39,4	3404	dr.
031714	04X95	bk	4316	46	4888	dr.
031728	04X120	bk	5435	51,4	5703	dr.
031715	04X150	bk	6394	58,8	7040	dr.
031729	04X185	bk	8203	61,1	9150	dr.
031730	04X240	bk	11008	70	12500	dr.
032929	04X300	bk	13485		15508	dr.
031994	3X2,5+3X0,5	bk	144	11,4	220	dr.
031995	3X4+3X0,75	bk	224	13,1	323	dr.
031996	3X6+3X1	bk	298	14,9	420	dr.
031871	3X10+3X1,5	bk	511	18,4	615	dr.
031997	3X16+3X2,5	bk	723	21,6	819	dr.
031870	3X25+3X4	bk	1204	25,3	1402	dr.
031998	3X35+3X6	bk	1535	27,8	1718	dr.
031999	3X50+3X10	bk	2208	32,6	2399	dr.
031869	3X70+3X10	bk	2980	38,9	3173	dr.
032000	3X95+3X16	bk	3953	44,3	4162	dr.
031868	3X120+3X16	bk	5007	46,8	5253	dr.
032001	3X150+3X25	bk	5412	53,5	6128	dr.
032002	3X185+3X35	bk	6969	59,5	7450	dr.
032130	3X240+3X50	bk	9123	70	10800	dr.
032928	3X300+3X70	bk	11965		13760	dr.

H07VVH6-F

Application:
PVC insulated flat cables are used as trailing cable for crane installations, floor conveyer systems and shelf control units. Max. suspension length 35 m.

standard	VDE 0281-404
core identification	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers
nominal voltage U_o	450 V
nominal voltage U	750 V
test voltage	2,5 kV
protective conductor	yes
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC TI2
sheathing material	PVC TM2
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	yes
max. operating temperature, fixed	-40 - +70 °C
temperature, moved/ during installation	-25 - +70 °C

p/n	type	colour	CU kg/km	w x h ca. mm	weight ca. kg/km	packaging
031974	04G1,5	bk	58	15 x 5	135	dr.
032153	05G1,5	bk	72	18 x 5	140	dr.
032351	07G1,5	bk	101	27 x 5	260	dr.
032004	08G1,5	bk	115	29 x 5	265	dr.
032352	10G1,5	bk	144	36 x 5	358	dr.
031975	12G1,5	bk	173	41 x 5	442	dr.
031976	14G1,5	bk	202	51 x 5	435	dr.
031977	18G1,5	bk	259	65 x 5	559	dr.
031978	04G2,5	bk	96	18,5 x 5,7	206	dr.
032154	05G2,5	bk	120	22,1 x 5,7	240	dr.
032353	07G2,5	bk	168	33,5 x 5,7	365	dr.
032354	08G2,5	bk	192	37,1 x 5,7	410	dr.
032355	12G2,5	bk	288	50,9 x 5,7	610	dr.
032356	24G2,5	bk	604	59,2 x 5,7	950	dr.
032357	04G4	bk	154	21,5 x 6,9	327	dr.
032358	05G4	bk	192	61,5 x 19,1	402	dr.
032359	07G4	bk	269	37,9 x 6,9	567	dr.
032041	04G6	bk	230	24,5 x 7,6	430	dr.
032301	05G6	bk	288	29,5 x 7,6	525	dr.
032360	07G6	bk	403	41,1 x 7,1	755	dr.
031979	04G10	bk	384	31,1 x 9,6	709	dr.
032302	05G10	bk	480	37,5 x 10,2	935	dr.
032024	04G16	bk	614	35,5 x 10,9	1015	dr.
032361	05G16	bk	768	43,4 x 11,1	1317	dr.
033469	04G25	bk	960	41,5 x 12,7	1367	dr.
032152	04G35	bk	1344	49,1 x 15,7	1920	dr.
034819	04G50	bk	1920	61,5 x 19,1	2822	dr.
034557	04G70	bk	2688	64,1 x 21,1	3817	dr.

AD 100 P

core identification	gn-ye + numbers
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	3000 V
conductor material	bare copper
insulation	special PVC-compound
sheathing material	polyurethan
maximum temperature at conductor	80 °C
max. operating temperature, fixed	-40 - +80 °C
temperature, moved/ during installation	-5 - +80 °C
bending radius, moved application	7,5 x D_A
bending radius, fixed installation	4 x D_A
oil resistant acc. to EN 60811-2-1	yes

Application:
In dry and wet environment as well as in free air for medium mechanical stress. For connection of electrical tools with improved oil- and abrasion resistance.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032800	02X0,75	gy	14,4	5,4	43	dr.
032801	03X0,75	gy	22	5,7	55	dr.
032802	04X0,75	gy	29	6,2	67	dr.
032803	05X0,75	gy	36	6,8	83	dr.
032804	07X0,75	gy	50	8,1	106	dr.
034355	08X0,75	gy	58	8,7	111	dr.
032805	10X0,75	gy	72	9,6	151	dr.
032806	12X0,75	gy	86,4	9,9	181	dr.
034356	14X0,75	gy	101	10,4	202	dr.
032807	18X0,75	gy	130	11,9	255	dr.
034357	21X0,75	gy	151,2	13,3	269	dr.
032808	25X0,75	gy	180	14,5	325	dr.
034358	30X0,75	gy	216	15,1	400	dr.
032809	34X0,75	gy	245	16,3	473	dr.
032810	41X0,75	gy	295,2	17,4	529	dr.
034359	42X0,75	gy	302,4	17,7	600	dr.
034360	50X0,75	gy	360	19,4	720	dr.
032811	02X1	gy	19,2	5,7	53	dr.
032812	04X1	gy	38,4	6,6	85	dr.
031717	03X1	gy	29	6	61	c. 100
031716	05X1	gy	48	7,1	89	c. 100, dr.
032813	07X1	gy	67	8,6	126	dr.
032815	12X1	gy	115,2	10,7	219	dr.
032816	18X1	gy	173	12,9	309	dr.
032817	25X1	gy	240	14,9	414	dr.
032818	34X1	gy	326,4	17,4	592	dr.
034365	42X1	gy	404	18,8	730	dr.
034366	50X1	gy	480	20,9	890	dr.
032820	02X1,5	gy	29	6,2	77	dr.
032821	03X1,5	gy	43,2	6,6	92	dr.
032822	04X1,5	gy	58	7,2	110	dr.
032823	05X1,5	gy	72	8	132	dr.
032010	07X1,5	gy	101	9,6	159	dr.
032824	12X1,5	gy	173	12	290	dr.
032825	18X1,5	gy	260	14,1	422	dr.
032826	25X1,5	gy	360	16,8	594	dr.
032827	34X1,5	gy	490	19,5	799	dr.
034372	42X1,5	gy	605	21,1	1100	dr.
034373	50X1,5	gy	720	25,4	1250	dr.
034374	02X2,5	gy	48	7,8	110	dr.
032829	03X2,5	gy	72	8,3	149	dr.
032830	04X2,5	gy	96	9,2	175	dr.
032831	05X2,5	gy	120	10,1	204	dr.
032832	07X2,5	gy	168	12,3	280	dr.
032833	12X2,5	gy	288	15,3	489	dr.

AD 100 P

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
034375	18X2,5	gy	432	18,2	740	dr.
034376	25X2,5	gy	600	22,3	1095	dr.
032834	04X4	gy	154	11,4	266	dr.
032835	05X4	gy	192	12,7	315	dr.
032837	04X6	gy	230,4	13,4	383	dr.
032838	05X6	gy	288	14,9	477	dr.

AD 100 F-CP

Application:
Ruggedized PUR-sheathed control cable, highly resistant against wear and tear. The oil and coolant resistance allows application in industrial environments, machine building, engineering or even steel works. For medium mechanical stress without tension load and forced guiding. For indoor and outdoor use.

core identification	gn-ye + numbers
nominal voltage U	300 V
nominal voltage U_o	500 V
test voltage	3000 V
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	70 °C
insulation	special PVC-compound
screen coverage	85 %
transfer impedance	250 Ohm/km
sheathing material	polyurethan
bending radius, moved application	10 x D_A
bending radius, fixed installation	5 x D_A
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	yes
max. operating temperature, fixed	-40 - +80 °C
temperature, moved/ during installation	-5 - 80 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
034538	04X0,5	gy	49	6,5	72	dr.
033532	02X0,75	gy	47	5,8	77	dr.
033533	03X0,75	gy	54	6,1	89	dr.
033534	04X0,75	gy	77	6,5	102	dr.
033535	05X0,75	gy	86	7,1	117	dr.
033536	07X0,75	gy	96	8,3	152	dr.
033538	12X0,75	gy	151	10,3	231	dr.
033540	18X0,75	gy	207	12,1	333	dr.
033542	25X0,75	gy	280	14,9	447	dr.
033543	34X0,75	gy	420	19,8	599	dr.
033545	41X0,75	gy	467	17,9	689	dr.
033546	50X0,75	gy	480	19,7	775	dr.
032012	02X1	gy	50	6,1	66	dr.
031990	03X1	gy	77	6,3	82	dr.
031787	04X1	gy	87	6,9	129	dr.
032013	05X1	gy	90	7,5	128	dr.
034559	07X1	gy	112	8,9	174	dr.
032050	12X1	gy	194	10,9	262	dr.
034564	18X1	gy	268	13,9	388	dr.
034566	25X1	gy	354	15,9	596	dr.
034567	34X1	gy	452	17,9	740	dr.
034568	41X1	gy	510	19,3	855	dr.

AD 100 F-CP

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
034569	50X1	gy	630	21,2	1027	dr.
034475	02X1,5	gy	65	7,1	92	dr.
031772	03X1,5	gy	83	6,9	135	dr.
033824	04X1,5	gy	100	7,5	146	dr.
032049	05X1,5	gy	120	8,4	159	dr.
032044	07X1,5	gy	152	10	207	dr., c. 100
033825	12X1,5	gy	268	12,1	352	dr.
034574	18X1,5	gy	373	15,6	516	dr.
033826	25X1,5	gy	530	17,9	719	dr.
034616	34X1,5	gy	683	20,8	907	dr.
034617	42X1,5	gy	770	21,8	1040	dr.
034618	50X1,5	gy	976	23,6	1292	dr.
034619	02X2,5	gy	96	8,2	131	dr.
033827	03X2,5	gy	147	8,6	178	dr.
034620	04X2,5	gy	175	9,9	215	dr.
034621	05X2,5	gy	203	11	246	dr.
034622	07X2,5	gy	253	12,6	342	dr.
033828	12X2,5	gy	445	15,5	580	dr.
034624	18X2,5	gy	569	19	978	dr.
033829	25X2,5	gy	827	22,2	1358	dr.
034627	04X4	gy	248	11,7	308	dr.
034628	05X4	gy	300	13,3	386	dr.
034631	04X6	gy	343	14,2	427	dr.
034632	05X6	gy	418	15,2	510	dr.
034634	04X10	gy	535	17,2	710	dr.
034635	04X16	gy	800	20,2	1050	dr.
034636	04X25	gy	1075	25,1	1570	dr.
034637	04X35	gy	1576	28	2070	dr.

SL AD 300 Y

protective conductor	yes
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	4 kV
core identification	numbers
conductor material	bare copper
conductor construction	fine stranded class 6
insulation	special PVC-compound
sheathing material	PVC
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	yes
max. operating temperature, fixed	-40 - +80 °C
temperature, moved/ during installation	0 - +80 °C

Application:
Extremely flexible control cable for application in permantently moved production units (indoor). For use in free movement without tensile stress application in drag-chains is permitted. The cable is flame retardant and resistant against most in industry environment occurring chemicals. Please pay attention to our notes for the use of drag chain cable.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032380	02X0,75	gy	15	5,4	48	dr.
032068	03X0,75	gy	22	5,7	60	dr.
032381	04X0,75	gy	29	6,4	73	dr.
032069	05X0,75	gy	37	7,1	86	dr.
032382	07X0,75	gy	51	8,3	134	dr.
032141	12X0,75	gy	89	10,2	181	dr.
032386	18X0,75	gy	130	12,1	292	dr.
032396	02X1	gy	19,2	5,7	57	dr.
032315	03X1	gy	29	6,1	75	dr.
032397	04X1	gy	38,4	6,8	94	dr.
032398	05X1	gy	48	7,4	117	dr.

SL AD 300 Y

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032399	07X1	gy	67,2	8,8	164	dr., c. 100
030934	12X1	gy	115,2	10,8	261	dr., c. 100, c. 50
031579	18X1	gy	172,8	13,1	361	dr.
032413	02X1,5	gy	29	6,4	73	dr.
031760	03X1,5	gy	43,2	6,8	93	dr.
031321	04X1,5	gy	57,6	7,4	134	dr.
031063	05X1,5	gy	72	8,3	168	dr.
030936	07X1,5	gy	101	9,9	232	dr.
031439	12X1,5	gy	172,8	12,1	351	dr., c. 100, c. 50
031066	18X1,5	gy	259,2	14,5	507	dr.
032425	02X2,5	gy	48	7,7	113	dr.
032054	03X2,5	gy	72	8,4	145	dr.
031591	04X2,5	gy	96	9,1	203	dr.

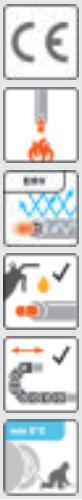
SL AD 300 CY

Application:
Highly-flexible data cable for continuous mobile use under extreme conditions with particular requirements on EMC. It is applicable in standard drag chains without tensile load. The cable is flame retardant, and largely resistant against most chemicals used in industrial environment. Please note our instructions for the use of drag-chain cables.

protective conductor	yes
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	4 kV
core identification	numbers
conductor material	bare copper
conductor construction	fine stranded class 6
insulation	special PVC-compound
inner sheath	PVC
sheathing material	PVC
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	yes
max. operating temperature, fixed	-40 - +80 °C
temperature, moved/ during installation	0 - +80 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032463	02X0,75	gy	56	7,3	101	dr.
032464	03X0,75	gy	64	7,8	118	dr.
032465	04X0,75	gy	80	8,3	148	dr.
032466	05X0,75	gy	92	9,1	168	dr.
032467	07X0,75	gy	110	10,2	225	dr.
032029	12X0,75	gy	189	12,6	253	dr., c. 100
032471	18X0,75	gy	259	14,5	462	dr.
032481	02X1	gy	61	7,8	111	dr.
032482	03X1	gy	71	8,1	131	dr.
032483	04X1	gy	90	9,5	163	dr.
032484	05X1	gy	114	9,5	203	dr.
032485	07X1	gy	136	10,9	257	dr.
032486	12X1	gy	235	13,1	257	dr.
032488	18X1	gy	309	15,4	534	dr.

SL AD 300 CY



p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032495	02X1,5	gy	79	8,3	141	dr.
032496	03X1,5	gy	94	8,7	167	dr.
031582	04X1,5	gy	119	9,5	210	dr.
032497	05X1,5	gy	132	10,2	242	dr.
032498	07X1,5	gy	218	12,2	328	dr.
031583	12X1,5	gy	310	14,5	546	dr.
032298	18X1,5	gy	481	16,9	684	dr.
032507	03X2,5	gy	140	10,5	222	dr.
031590	04X2,5	gy	169,3	11,2	321	dr., c. 50
032508	05X2,5	gy	194	12,7	342	dr.
031769	07X2,5	gy	296	14,8	418	dr., c. 100
032509	12X2,5	gy	405	18	683	dr.

SL AD 300 P

core identification	numbers
protective conductor	yes
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	3 kV
conductor material	bare copper
conductor construction	fine stranded class 6
insulation	TPE
sheathing material	polyurethan
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-50 - +80 °C
temperature, moved/ during installation	-30 - +80 °C
oil resistant acc. to EN 60811-2-1	yes
bending radius, moved application	7,5 x D_A
bending radius, fixed installation	4 x D_A

Application:
Highly flexible control cable for the constantly moved equipment under extreme conditions indoor and outdoor. The cable is halogen-free, flame retardant and resistant against most in industry environment occurring chemicals. Please pay attention to our notes for the use of drag chain cable.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031001	02X0,75	gy	15	6,2	57	dr., c. 100
031002	03X0,75	gy	22	6,5	73	dr.
031003	04X0,75	gy	29	7	95	dr.
032526	05X0,75	gy	36	7,8	76	dr.
032527	07X0,75	gy	50,4	9	106	dr.
031029	12X0,75	gy	86,4	11	248	dr.
032528	18X0,75	gy	130	12,9	252	dr.
032530	25X0,75	gy	180	15,4	351	dr.
031004	02X1	gy	19,2	6,9	65	dr., c. 100
031009	03X1	gy	29	7,4	84	dr.
031005	04X1	gy	38,4	8	111	dr.
031006	05X1	gy	48	8,7	138	dr.
031026	07X1	gy	67,2	10,2	182	dr.
031028	12X1	gy	115,2	12,6	261	dr.
031030	18X1	gy	173	14,8	390	dr.
031152	25X1	gy	240	17,8	445	dr.
032537	02X1,5	gy	29	7,6	65	dr.
031007	03X1,5	gy	47	8,1	110	dr.
031067	04X1,5	gy	60	8,7	134	dr.
030955	05X1,5	gy	72	9,7	168	dr.

SL AD 300 P

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031023	07X1,5	gy	101	11,3	232	dr.
031584	12X1,5	gy	173	13,8	305	dr.
031158	18X1,5	gy	259,2	16,3	507	dr.
031416	25X1,5	gy	360	19,7	647	dr.
032543	02X2,5	gy	48	9,2	115	dr.
031585	03X2,5	gy	72	9,7	143	dr.
031580	04X2,5	gy	96	10,5	174	dr., c. 100
031022	05X2,5	gy	120	11,6	198	dr.
032094	07X2,5	gy	168	13,8	266	dr.
031428	12X2,5	gy	288	16,9	421	dr.
032544	18X2,5	gy	432	20	714	dr.

SL AD 300 CP

Application:
Highly flexible control cable for the constantly moved equipment under extreme conditions indoor and outdoor. The cable is halogen-free, flame retardant and resistant against most in industry environment occurring chemicals. Please pay attention to our notes for the use of drag chain cable.

nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	3 kV
core identification	gn-ye + numbers
conductor material	bare copper
conductor construction	fine stranded class 6
insulation	TPE
inner sheath	TPE
screen coverage	80 %
sheathing material	polyurethan
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	yes
max. operating temperature, fixed	-50 - +80 °C
temperature, moved/ during installation	-30 - +80 °C
bending radius, moved application	7,5 x D_A
bending radius, fixed installation	4 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031442	02X0,5	gy	48	8,3	91	dr.
030958	05X0,5	gy	66	9,7	131	dr.
032558	02X0,75	gy	53	8,8	98	dr.
032559	03X0,75	gy	63	9,3	120	dr.
032560	04X0,75	gy	77	9,7	83	dr.
032561	05X0,75	gy	87	10,5	94	dr.
032562	07X0,75	gy	107	11,9	125	dr.
032564	12X0,75	gy	156	14,2	308	dr.
032565	18X0,75	gy	235	16,3	420	dr.

SL AD 300 CP

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032567	25X0,75	gy	313	19,2	579	dr.
032570	02X1	gy	60	8,8	65	dr.
032571	03X1	gy	71	9,3	81	dr.
032572	04X1	gy	88	9,7	96	dr.
031923	05X1	gy	99	10,5	168	dr.
031986	07X1	gy	128	11,9	240	dr.
030953	12X1	gy	186	14,2	358,2	dr.
031919	18X1	gy	280	16,3	418	dr.
032574	25X1	gy	378	19,2	641	dr.
032581	02X1,5	gy	79	9,7	134	dr.
032582	03X1,5	gy	94	10	109	dr., c. 100
031910	04X1,5	gy	119	10,8	217	dr.
032583	05X1,5	gy	129	11,7	148	dr.
032584	07X1,5	gy	170	13,4	325	dr.
032064	12X1,5	gy	279	16	416	dr.
032065	18X1,5	gy	394	18,5	564	dr.
032586	25X1,5	gy	533	23,7	888	dr.
032591	02X2,5	gy	104	11,9	198	dr.
032592	03X2,5	gy	137	12,6	284	dr.
031556	04X2,5	gy	165	13,6	321	dr.
032067	05X2,5	gy	191	14,7	293	dr.
031918	07X2,5	gy	275	17,4	418	dr.
031766	12X2,5	gy	453	20,9	589	dr.
031767	18X2,5	gy	607	24,2	885	dr.

SL AD 400 CP

standard	UL/CSA
core identification	gn-ye + numbers
protective conductor	yes
nominal voltage U_o	600 V
nominal voltage U	1000 V
test voltage	4 kV
conductor material	bare copper
conductor construction	fine stranded class 6
insulation	polyolefin
maximum temperature at conductor	60 °C
sheathing material	polyurethan
flame retardant	VDE 0482-332-1-2/IEC 60332-1
bending radius, moved application	7,5 x D_A
bending radius, fixed installation	5 x D_A
max. operating temperature, fixed	-50 - +80 °C
temperature, moved/ during installation	-30 - +80 °C

Application:
Flexible control cable for permantent moved applications under heavy duty conditiones combined with requirements to EMC. The cable is halogen-free, flame retardant and resistant against most often used chemical substances in industrial environment. Please pay attention to our installation instructions for drag-chain cables.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033164	04X1,5	og	119	10	175	dr.
033719	04X2,5	og	168	11,9	234	dr.
033720	04X4	og	231,4	13	338	dr.
033721	04X6	og	332,1	15	466	dr.
033722	04X10	og	527	18	674	dr.
033723	04X16	og	794	22	1148	dr.
033724	04X25	og	1180	27,5	1650	dr.

SL AD 400 CP

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033725	04X35	og	1603	32	2400	dr.
033726	04X50	og	2165	36,7	3150	dr.
033727	04X70	og	3196	42,5	4600	dr.

05VV2SV

Application:
For the connection of control buttons or as unsupported switch cable for<mt:br/>heights up to 50 m. For indoor or outdoor use.

core identification	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers
protective conductor	yes
nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2000 V
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC
maximum temperature at conductor	70 °C
sheathing material	PVC
flame retardant	VDE 0482-332-1-2/IEC 60332-1
temperature, moved/ during installation	-30 - +70 °C
max. operating temperature, fixed	-30 - +70 °C
bending radius, moved application	10 x D_A
bending radius, fixed installation	10 x D_A

p/n	type	colour	CU kg/km	weight ca. kg/km	packaging
034638	12G1	bk	115,2	427	dr.
031814	18X1	bk	172,8	528	dr.
031862	25G1	bk	240	665	dr.
034639	30G1	bk	288	760	dr.
034640	08G1,5	bk	115,2	396	dr.
032788	12G1,5	bk	173	486	dr.
034641	15G1,5	bk	230	575	dr.

05VV2SV

p/n	type	colour	CU kg/km	weight ca. kg/km	packaging
034642	18G1,5	bk	259,2	640	dr.
034643	20G1,5	bk	288	729	dr.
031815	24X1,5	bk	346	820	dr.

LiYY

Application:
For signal transmission between electronic devices, in computer systems or process control units.

core identification	colours acc. DIN 47100
operating capacity	120 nF/km
nominal voltage U_o	250 V
nominal voltage U	250 V
test voltage	1,2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	70 °C
insulation	PVC
sheathing material	PVC
impedance	85 Ohm
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	no
max. operating temperature, fixed	-30 - +80 °C
temperature, moved/ during installation	-5 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030174	02X0,14	gy	2,7	3,2	12	dr., c. 100
030175	03X0,14	gy	4,1	3,4	17	dr., c. 100
030395	04X0,14	gy	5,4	3,7	19	dr., c. 100, c. 250
030177	05X0,14	gy	6,8	4	22	dr., c. 100
030178	06X0,14	gy	8,1	4,4	25	dr., c. 100
030179	07X0,14	gy	9,5	4,7	27	dr., c. 100
030180	08X0,14	gy	10,8	5,3	30	dr., c. 100
030181	10X0,14	gy	13,5	5,6	41	dr., c. 100
030182	12X0,14	gy	16,2	5,8	48	dr., c. 100
030183	14X0,14	gy	18,9	6,1	54	dr., c. 100
030184	16X0,14	gy	21,6	6,4	60	dr., c. 100
030575	18X0,14	gy	24,1	6,7	72	dr., c. 100
031374	20X0,14	gy	26,9	7,4	73	dr.
030186	21X0,14	gy	28,4	7,5	77	dr., c. 100
030187	24X0,14	gy	32,3	7,8	94	dr., c. 100
030603	25X0,14	gy	34,3	7,9	100	dr., c. 100
030188	27X0,14	gy	36,3	8,7	107	dr., c. 100
030189	30X0,14	gy	40,5	8,8	112	dr., c. 100
030190	32X0,14	gy	43	9	123	dr., c. 100
030191	36X0,14	gy	48,6	9,3	137	dr., c. 100
030192	40X0,14	gy	54	9,7	152	dr., c. 100
030193	44X0,14	gy	59	10,4	167	dr., c. 100
031375	48X0,14	gy	64,5	10,8	186	dr.
030494	50X0,14	gy	67,5	11	202	dr., c. 100
031376	52X0,14	gy	69,9	11,1	210	dr.
031377	56X0,14	gy	75,3	11,3	218	dr.
030197	61X0,14	gy	82	11,5	237	dr., c. 100
030198	02X0,25	gy	4,8	3,6	17	dr., c. 100
030199	03X0,25	gy	7,2	3,8	21	dr., c. 100
030200	04X0,25	gy	9,6	4,1	27	dr., c. 100
030201	05X0,25	gy	12	4,5	32	dr., c. 100
030202	06X0,25	gy	14,4	5	40	dr., c. 100
030203	07X0,25	gy	16,8	5,4	42	dr., c. 100
030204	08X0,25	gy	19,2	6,1	51	dr., c. 100
030205	10X0,25	gy	24	6,4	61	dr., c. 100
030206	12X0,25	gy	28,8	6,6	71	dr., c. 100
030207	14X0,25	gy	33,6	6,9	81	dr., c. 100
030208	16X0,25	gy	38,4	7,3	98	dr., c. 100
030495	18X0,25	gy	43,2	7,7	110	dr., c. 100
031378	20X0,25	gy	48	8,2	128	dr.
030209	21X0,25	gy	50,4	9,1	134	dr., c. 100
030210	24X0,25	gy	57,6	9,4	140	dr., c. 100
031379	25X0,25	gy	60	9,6	148	dr.
030568	27X0,25	gy	64,8	9,9	153	dr., c. 100

LiYY

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030212	30X0,25	gy	72	10	168	dr., c. 100
030213	32X0,25	gy	77	10,3	188	dr., c. 100
030214	36X0,25	gy	86,4	10,7	208	dr., c. 100
030497	40X0,25	gy	96,1	11,2	227	dr., c. 100
030569	44X0,25	gy	105,6	12,4	249	dr., c. 100
031380	48X0,25	gy	115,2	12,7	271	dr.
030498	50X0,25	gy	120	12,9	312	dr.
031381	56X0,25	gy	134,4	13,3	349	dr.
030218	61X0,25	gy	146,4	13,7	398	dr.
030219	02X0,34	gy	6,5	4,2	19	dr., c. 100
030220	03X0,34	gy	9,8	4,5	25	dr., c. 100
030221	04X0,34	gy	13,1	4,9	32	dr., c. 100
030222	05X0,34	gy	16,3	5,6	38	dr., c. 100
030223	06X0,34	gy	19,6	6,1	44	dr., c. 100
030224	07X0,34	gy	22,8	6,6	50	dr., c. 100
030574	08X0,34	gy	26	7,2	61	dr., c. 100
030225	10X0,34	gy	32,6	7,6	73	dr., c. 100
030573	12X0,34	gy	39,2	7,9	85	dr., c. 100
030226	14X0,34	gy	45,7	8,7	104	dr., c. 100
030227	16X0,34	gy	52,2	9,2	116	dr., c. 100
030228	18X0,34	gy	58,8	9,6	131	dr., c. 100
030229	21X0,34	gy	68,6	10,8	149	dr., c. 100
030230	24X0,34	gy	78,4	11,2	167	dr., c. 100
030231	27X0,34	gy	88,2	12,1	184	dr., c. 100
030232	30X0,34	gy	98	12,3	212	dr., c. 100
030233	32X0,34	gy	104,4	12,8	225	dr., c. 100, c. 50
030234	36X0,34	gy	117,5	13,2	249	dr., c. 100
030235	40X0,34	gy	130,6	13,8	273	dr., c. 100
030236	44X0,34	gy	143,6	14,8	300	dr., c. 100
030502	50X0,34	gy	163	15,5	404	dr.
030240	61X0,34	gy	199,1	16,4	508	dr.
030241	02X0,5	gy	9,6	5,6	23	dr., c. 100
030242	03X0,5	gy	14,4	5,9	31	dr., c. 100
030243	04X0,5	gy	19,2	6,4	39	dr., c. 100
030244	05X0,5	gy	24	7	47	dr., c. 100
030246	07X0,5	gy	33,6	7,6	65	dr., c. 100
030587	08X0,5	gy	38,4	7,9	75	dr., c. 100
030248	10X0,5	gy	48	9,4	92	dr., c. 100
030567	12X0,5	gy	57,6	9,7	121	dr., c. 100
030250	16X0,5	gy	76,8	10,8	146	dr., c. 100
030545	21X0,5	gy	96	12,6	184	dr., c. 100
030252	24X0,5	gy	120	13,6	221	dr., c. 100
030527	02X0,75	gy	14,4	5,9	48	dr., c. 100, c. 50
030528	03X0,75	gy	21,6	6	57	dr., c. 100
030529	04X0,75	gy	28,8	6,5	69	dr., c. 100
031308	02X1	gy	19,2	6	61	dr.
031433	04X1	gy	38,4	6,5	85	dr.
030337	02X2X0,14	gy	5,4	5,1	19	dr., c. 100
030338	03X2X0,14	gy	8	5,8	26	dr., c. 100
030339	04X2X0,14	gy	10,7	6,4	34	dr., c. 100
030340	05X2X0,14	gy	13,4	6,7	42	dr., c. 100
030341	06X2X0,14	gy	16,1	7,2	48	dr., c. 100
030342	08X2X0,14	gy	21,5	7,7	62	dr.

LIYY/EB

Application:
For signal transmission between electronic devices, in computer systems or process control units. The blue outer sheath allows installation in intrinsically safe circuits.

conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC
sheathing material	PVC
flame retardant	VDE 0482-332-1-2/IEC 60332-1
temperature, moved/ during installation	-5 - +70 °C
max. operating temperature, fixed	-30 - +80 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031654	02X0,75	bu	14,4	5,9	43	dr.
030661	03X0,75	bu	21,6	6,1	61	dr., c. 100
033122	04X0,75	bu	29,4	6,2	74	dr.
033123	05X0,75	bu	37	6,9	89	dr.
032663	07X0,75	bu	52		117	dr.
033130	02X1	bu	20	5,8	58	dr.
033131	03X1	bu	30	6,3	75	dr.
032864	04X1	bu	38	6,6	86	dr.
033132	05X1	bu	48	7,3	111	dr.
032944	07X1	bu	69,1	8,6	143	dr.
033135	02X1,5	bu	29	6,6	86	dr.
031421	03X1,5	bu	43,2		99	dr.
030778	04X1,5	bu	57,6		125	dr., c. 100
033136	05X1,5	bu	72	8,3	152	dr.
033137	07X1,5	bu	101	9,8	190	dr.

LiYCY

Application:
For signal transmission between electronic devices, in computer systems or process control units with increased requirements to electromagnetic compatibility.

core identification	colours acc. DIN 47100
operating capacity	120 nF/km
protective conductor	no
nominal voltage U_o	250 V
nominal voltage U	250 V
test voltage	1,2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum tempera-ture at conductor	70 °C
insulation	PVC
screen coverage	70 %
sheathing material	PVC
flame retardant	VDE 0482-332-1-2/IEC 60332-1
oil resistant acc. to EN 60811-2-1	no
max. operating temperature, fixed	-30 - +80 °C
temperature, moved/ during installation	-5 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030253	02X0,14	gy	12,4	3,9	21	dr., c. 100
030254	03X0,14	gy	14,1	4	40	dr., c. 100
030255	04X0,14	gy	15,8	4,2	43	dr., c. 100
030256	05X0,14	gy	19,6	4,6	47	dr., c. 100
030257	06X0,14	gy	22,2	4,9	52	dr., c. 100
030258	07X0,14	gy	23,5	5	54	dr., c. 100
030259	08X0,14	gy	25,2	6	58	dr., c. 100
030260	10X0,14	gy	28,3	6,5	76	dr., c. 100

LiYCY

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030261	12X0,14	gy	31,4	6,7	81	dr., c. 100
030262	14X0,14	gy	34,9	6,9	89	dr., c. 100
030263	16X0,14	gy	48	7,3	97	dr., c. 100
030264	18X0,14	gy	51,5	7,5	100	dr., c. 100
030926	20X0,14	gy	58,3	7,8	116	dr., c. 100
030266	21X0,14	gy	60,2	7,9	131	dr., c. 100
030267	24X0,14	gy	74,3	9,1	158	dr., c. 100
031382	25X0,14	gy	76,2	9,2	165	dr.
030268	27X0,14	gy	84,3	9,4	179	dr., c. 100
030269	30X0,14	gy	97,6	9,5	194	dr., c. 100
030270	32X0,14	gy	105,2	10	198	dr., c. 100
030271	36X0,14	gy	116,4	10,2	231	dr., c. 100
030272	40X0,14	gy	126	10,5	252	dr., c. 100
030274	44X0,14	gy	138,2	11,2	276	dr., c. 100
031383	48X0,14	gy	145,8	11,7	301	dr.
030538	50X0,14	gy	155	12	327	dr., c. 100
031384	52X0,14	gy	157,4	12,3	340	dr.
031385	56X0,14	gy	166,5	12,7	366	dr.
030278	61X0,14	gy	176,5	12,8	377	dr.
031334	01X0,25	gy	8		13	dr., c. 100
030280	02X0,25	gy	16	4,6	28	dr., c. 100
030281	03X0,25	gy	21	4,8	34	dr., c. 100
030282	04X0,25	gy	24	5,2	40	dr., c. 100
030283	05X0,25	gy	29	5,7	47	dr., c. 100
030284	06X0,25	gy	32,4	6,3	54	dr., c. 100
030285	07X0,25	gy	37	6,3	61	dr., c. 100
030286	08X0,25	gy	42,1	6,4	66	dr., c. 100
030287	10X0,25	gy	49,9	6,7	80	dr., c. 100
030288	12X0,25	gy	59	7,8	91	dr., c. 100
030289	14X0,25	gy	64,2	8	120	dr., c. 100
031386	15X0,25	gy	67,5	9,4	127	dr.
030290	16X0,25	gy	70,8	9,6	135	dr., c. 100
030291	18X0,25	gy	83	10	150	dr., c. 100
030927	20X0,25	gy	88	10,2	157	dr., c. 100
030292	21X0,25	gy	93	10,5	163	dr., c. 100
030293	24X0,25	gy	114,2	12,1	212	dr., c. 100
031387	25X0,25	gy	116,7	12,1	220	dr.
030294	27X0,25	gy	122	12,2	226	dr., c. 100
030295	30X0,25	gy	132,3	12,6	243	dr., c. 100
030296	32X0,25	gy	137,8	13	256	dr., c. 100
030297	36X0,25	gy	152	13,6	280	dr., c. 100
030298	40X0,25	gy	163,5	14,1	302	dr.
030300	44X0,25	gy	179	14,7	329	dr.
031388	48X0,25	gy	192	14,8	444	dr.
030459	50X0,25	gy	203	16	461	dr.
031389	52X0,25	gy	233,1	16,2	479	dr.
031390	56X0,25	gy	237	16,6	516	dr.
030304	61X0,25	gy	287,2	20	593	dr.
030305	02X0,34	gy	21	4,8	31	dr., c. 100
030306	03X0,34	gy	27	5	38	dr., c. 100
030307	04X0,34	gy	33	5,4	46	dr., c. 100
030308	05X0,34	gy	36	5,9	54	dr., c. 100
030571	06X0,34	gy	45	6,6	62	dr., c. 100
030309	07X0,34	gy	51	6,7	70	dr., c. 100
030310	08X0,34	gy	54	7	76	dr., c. 100
030311	10X0,34	gy	74	8,9	114	dr., c. 100
030312	12X0,34	gy	80	9	128	dr., c. 100
030460	14X0,34	gy	86	9,5	141	dr., c. 100
030313	16X0,34	gy	94	10	155	dr., c. 100
030314	18X0,34	gy	107,5	10,7	186	dr., c. 100
030928	20X0,34	gy	115,3	10,9	195	dr., c. 100
030315	21X0,34	gy	119	11,2	201	dr., c. 100
030316	24X0,34	gy	139	13	244	dr., c. 100
030317	27X0,34	gy	149	13,1	261	dr., c. 100
030462	30X0,34	gy	161,5	13,3	282	dr., c. 100
030318	32X0,34	gy	170,8	13,8	298	dr., c. 100

LiYCY

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
030319	36X0,34	gy	188,3	14,3	325	dr.
030320	40X0,34	gy	203,5	14,8	352	dr.
030322	44X0,34	gy	223,5	16,3	399	dr.
031391	48X0,34	gy	264,8	16,8	544	dr.
030463	50X0,34	gy	268	17,1	566	dr.
031392	52X0,34	gy	269,6	17,4	589	dr.
031393	56X0,34	gy	292	17,6	634	dr.
030323	61X0,34	gy	418	18	736	dr.
032607	01X0,5	gy	15	3,4	40	dr., c. 100
030325	02X0,5	gy	29	5	36	dr., c. 100
030326	03X0,5	gy	39	5,3	45	dr., c. 100
030327	04X0,5	gy	46	5,7	54	dr., c. 100
030328	05X0,5	gy	57	6,4	67	dr., c. 100
030564	06X0,5	gy	68,6	6,9	76	dr., c. 100
030330	07X0,5	gy	80	7	84	dr., c. 100
030883	08X0,5	gy	91,4	7,3	107	dr., c. 100
030332	10X0,5	gy	100	8,8	134	dr., c. 100
030333	12X0,5	gy	117	9,5	155	dr., c. 100
030565	16X0,5	gy	129	10,7	186	dr., c. 100
030464	18X0,5	gy	152	11	217	dr., c. 100
030933	20X0,5	gy	165	11,6	239	dr., c. 100
030410	21X0,5	gy	171	11,7	251	dr., c. 100
030566	24X0,5	gy	236	13,3	300	dr.
031394	25X0,5	gy	250	13,4	313	dr.
031395	27X0,5	gy	265	13,6	338	dr.
030465	30X0,5	gy	297	14	348	dr.
031396	32X0,5	gy	301	14,5	363	dr.
031397	42X0,5	gy	304,6	16,6	525	dr.
030550	50X0,5	gy	407	18	625	dr.
031398	61X0,5	gy	580	61,5	764	dr.
030511	02X0,75	gy	38	6,7	62	dr., c. 100, c. 50
030512	03X0,75	gy	50	7	73	dr., c. 100, c. 50
030513	04X0,75	gy	58	7,6	92	dr., c. 100
030514	05X0,75	gy	70	8,2	110	dr., c. 100
030572	06X0,75	gy	87	9,1	128	dr., c. 100
030515	07X0,75	gy	100	9,7	145	dr., c. 100
031678	08X0,75	gy	110	9,8	151	dr., c. 100
030471	10X0,75	gy	140	11,7	182	dr., c. 100
030472	12X0,75	gy	154	12	216	dr., c. 100
030473	18X0,75	gy	207	13,9	311	dr.
030583	20X0,75	gy	238	14,9	332	dr.
034913	24X0,75	gy	270	15	390	dr.
030474	25X0,75	gy	280,8	16,6	404	dr.
030475	30X0,75	gy	318,7	18	497	dr.
030736	32X0,75	gy	330	18,2	520	dr.
033873	40X0,75	gy	480	20,9	676	dr.
030705	02X1	gy	46	7	74	dr., c. 100
030672	03X1	gy	56	7,3	89	dr., c. 100
030673	04X1	gy	69	8	107	dr., c. 100
030670	05X1	gy	89	8,6	132	dr., c. 100
031154	07X1	gy	118	9,2	158	dr., c. 100
031256	08X1	gy	130	10,5	179	dr.
030671	10X1	gy	145	11,5	215	dr., c. 100
031257	12X1	gy	168	12	254	dr.
031258	16X1	gy	220	13,1	330	dr.
031259	18X1	gy	252	14,4	366	dr.
031260	20X1	gy	269	14,5	399	dr.
031261	25X1	gy	335	16	478	dr.
030584	02X1,5	gy	63	7,7	86	dr., c. 100
030586	03X1,5	gy	76	8	107	dr., c. 100
030558	04X1,5	gy	108	9	129	dr., c. 100, c. 50
031155	05X1,5	gy	129	10	150	dr., c. 100
031156	07X1,5	gy	164	10,8	192	dr., c. 100
031262	08X1,5	gy	172	12,5	219	dr.
031263	10X1,5	gy	195	13	274	dr.
031264	12X1,5	gy	254	14	315	dr.

LiYCY

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031265	18X1,5	gy	350	15,5	450	dr.
031266	20X1,5	gy	375	17	500	dr.
031267	25X1,5	gy	550	18,5	618	dr.
031959	03X2,5	gy	124		188	dr.
030360	02X2X0,14	gy	22,6	5	44	dr., c. 100, c. 50
030361	03X2X0,14	gy	25,7	5,6	53	dr., c. 100
030362	04X2X0,14	gy	39,3	6,1	60	dr., c. 100
030363	05X2X0,14	gy	44,5	6,5	80	dr., c. 100
030364	06X2X0,14	gy	51,4	7,2	85	dr., c. 100
030366	08X2X0,14	gy	56,9	8,3	115	dr., c. 100
030367	10X2X0,14	gy	65,3	9	130	dr., c. 100
030368	12X2X0,14	gy	78,4	9,4	160	dr., c. 100
030369	14X2X0,14	gy	84,3	11	180	dr., c. 100
030370	16X2X0,14	gy	93,4	11	220	dr., c. 100
030371	18X2X0,14	gy	99,4	11,9	240	dr., c. 100
030372	20X2X0,14	gy	104,8	12,2	260	dr., c. 100
030374	25X2X0,14	gy	127,7	13,4	315	dr., c. 100
030376	30X2X0,14	gy	142,8	14,6	375	dr.
030476	32X2X0,14	gy	148,8	14,6	390	dr.
030377	36X2X0,14	gy	185,5	15,4	435	dr.
030378	44X2X0,14	gy	210,5	17,1	530	dr.
030536	50X2X0,14	gy	244,9	17,8	590	dr.
030537	55X2X0,14	gy	260,7	18,8	620	dr.
030379	02X2X0,25	gy	28	6,8	54	dr., c. 100
030516	03X2X0,25	gy	39,6	7,3	66	dr., c. 100
030380	04X2X0,25	gy	44,9	7,9	81	dr., c. 100
030381	05X2X0,25	gy	55	9,4	98	dr., c. 100
030517	06X2X0,25	gy	69,5	10,2	115	dr., c. 100
030518	08X2X0,25	gy	76,9	10,5	130	dr., c. 100
030382	10X2X0,25	gy	110	13,3	158	dr., c. 100
030383	12X2X0,25	gy	121,5	13,7	190	dr., c. 100
030480	16X2X0,25	gy	146,5	15,1	238	dr., c. 100
030481	25X2X0,25	gy	233	19,4	344	dr.
030878	02X2X0,34	gy	40,5	7,4	74	dr., c. 100
030879	03X2X0,34	gy	49,8	8	98	dr., c. 100
030880	04X2X0,34	gy	62,9	9,5	114	dr., c. 100
030881	06X2X0,34	gy	84,1	10,6	157	dr., c. 100
030687	08X2X0,34	gy	97,5	10,9	195	dr., c. 100
031271	12X2X0,34	gy	138,3	14,3	272	dr.
030887	16X2X0,34	gy	166,2	15,4	349	dr., c. 100
031269	18X2X0,34	gy	205,6	16,6	399	dr.
031270	24X2X0,34	gy	266,1	18,6	464	dr.
030392	02X2X0,5	gy	54	7,3	93	dr., c. 100, c. 50
030519	03X2X0,5	gy	73,7	8,4	129	dr., c. 100
030393	04X2X0,5	gy	91	9,4	146	dr., c. 100
030520	06X2X0,5	gy	120	11,2	198	dr., c. 100
030521	08X2X0,5	gy	144	11,5	259	dr., c. 100
030394	12X2X0,5	gy	199	15,1	354	dr.
030485	16X2X0,5	gy	254	17,3	459	dr.
034976	32X2X0,5	gy	477	23,3	786	dr.
030522	02X2X0,75	gy	58	9,5	106	dr., c. 100
030414	03X2X0,75	gy	85	9,6	140	dr., c. 100
030523	04X2X0,75	gy	108	10,3	179	dr., c. 100
030524	06X2X0,75	gy	146	12,4	246	dr., c. 100
034855	08X2X0,75	gy	180	14,7	306	dr.
031745	12X2X0,75	gy	261		390	dr., c. 100
031322	02X2X1	gy	84	10,3	136	dr.
031327	03X2X1	gy	103	10,5	174	dr.
031189	04X2X1,0	gy	132	11	226	dr., c. 100
034862	24X1	gy	344	16,2	440	dr.
032127	02X2X1,5	bk	116		168	dr.
032132	02X2X1,5	gy	116		168	dr.

LiYCY/EB

Application:
For signal transmission between electronic devices, in computer systems or process control units with increased requirements to electromagnetic compatibility. Due to the blue outer sheath the cable is suitable for application in intrinsical safe circuits.

operating capacity	120 nF/km
core identification	numbers
nominal voltage U	250 V
test voltage	1,2 kV
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	PVC
maximum temperature at conductor	70 °C
screen coverage	85 %
sheathing material	PVC
bending radius, fixed installation	15 x D_A
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
max. operating temperature, fixed	-30 - +80 °C
temperature, moved/ during installation	-5 - +70 °C
impedance	85 Ohm

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032848	02X0,5	bu	29	4,9	36	dr.
031554	03X0,5	bu	35	5,3	45	dr.
034844	04X0,5	bu	46	6,3	54	dr.
034845	12X0,5	bu	114	9,6	156	dr.
030697	02X0,75	bu	35	6,7	56	dr., c. 100
030662	03X0,75	bu	58	7,1	70	dr., c. 100
030734	04X0,75	bu	66	7,6	95	dr., c. 100
032020	05X0,75	bu	92	8,2	130	dr., c. 100
030929	07X0,75	bu	103	9,7	168	dr., c. 100
032644	12X0,75	bu	151	12	202	dr.
032642	18X0,75	bu	211	13,9	304	dr.
033763	25X0,75	bu	281	15,1	425	dr.
033765	34X0,75	bu	350	16,9	523	dr.
033766	41X0,75	bu	397	18,3	680	dr.
031036	02X1	bu	58	6,9	84	dr., c. 100
032284	03X1	bu	78	7,3	106	dr.
031037	04X1	bu	98	8,1	130	dr.
031718	05X1	bu	95	8,6	140	dr., c. 100
031038	07X1	bu	160	9,2	192	dr., c. 100
032005	12X1	bu	245	12,1	260	dr.
032006	18X1	bu	286	14,4	340	dr.
031418	24X1	bu	345	14,5	450	dr.
032060	25X1	bu	396	16,1	534	dr.
033767	34X1	bu	440	17,9	741	dr.
031914	02X1,5	bu	78	7,7	97	dr.
031613	03X1,5	bu	94	8	125	dr.
034761	03G1,5	bu	94	8	125	dr.
032144	04X1,5	bu	128	9	170	dr.
031904	05X1,5	bu	144	10	180	dr.
034762	07G1,5	bu	159	10,5	233	dr.
033769	12X1,5	bu	268	13,7	356	dr.
032643	18X1,5	bu	373	15,5	528	dr.
031948	24X1,5	bu	448	19,5	705	dr.
033770	25X1,5	bu	530	19,5	720	dr.
033470	34X1,5	bu	645	20,8	900	dr.
031949	02X2X0,75	bu	60	9,5	106	dr.
031929	04X2X0,75	bu	115	10,3	179	dr.
033773	06X2X0,75	bu	146	13,3	236	dr.
034921	12X2X0,75	bu	270	16,8	430	dr.
034922	16X2X0,75	bu	342	20	562	dr.
034925	24X2X0,75	bu	490	24,3	794	dr.

Li2YCYv

core identification	colours acc. DIN 47100
nominal voltage U	250 V
test voltage	2 kV
operating capacity	60 nF/km
conductor material	bare copper
conductor construction	cl.2, 7-wired construction
insulation	polyethylene
screen coverage	75 %
sheathing material	PVC, enforced
impedance	100 Ohm
for outdoor use	yes
bending radius, fixed installation	15 x D_A
max. operating temperature, fixed	-30 - +80 °C

Application:
For signal transmission in the mA-range under heavy environmental influences, in free air and for direct burial. The cable is suitable for Maxi-Thermi-Point contacting.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031688	02X2X0,22	bk	20	7,9	46	dr.
031689	03X2X0,22	bk	26	8,2	67	dr.
031690	04X2X0,22	bk	31	8,8	83	dr.
031693	01X2X0,34	bk	20	7,4	44	dr.
031694	02X2X0,34	bk	29	9,1	68	dr., c. 100
031695	03X2X0,34	bk	38	9,5	79	dr.
031696	04X2X0,34	bk	47	10,1	95	dr.
031682	01X2X0,5	bk	28	7,9	61	dr.
031683	02X2X0,5	bk	37	9,9	73	dr.
031684	03X2X0,5	bk	53	10,3	109	dr.
031685	04X2X0,5	bk	60	11,1	122	dr., c. 100
031686	08X2X0,5	bk	106	13,9	234	dr.
031687	10X2X0,5	bk	148	15,8	284	dr.
032858	24X2X0,5	bk	363	22,8	595	dr.

Li2YCY PiMF

nominal voltage U	250 V
test voltage	2000 V
core identification	colours acc. DIN 47100
operating capacity	75 nF/km
loop resistance	80 Ohm/km
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	polyethylene
screen coverage	80 %
sheathing material	PVC
max. operating temperature, fixed	-15 - +70 °C
bending radius, fixed installation	12 x D_A

Application:
Data cable with low operating capacity, pairs individually screened and common copper screen. Suitable for connection of control devices in environments with high level of electrical interferences. For fixed installation inside of buildings.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031749	02X2X0,22	gy	33	7,7	38	dr., c. 100
034575	03X2X0,22	gy	35	7,8	57	dr.
031750	04X2X0,22	gy	49	8,3	83	dr., c. 100
034576	08X2X0,22	gy	74	10,8	133	dr.
034577	10X2X0,22	gy	91	11,5	164	dr.
031850	12X2X0,25	gy	125		190	dr.
034578	02X2X0,34	gy	38	9	70	dr.
034579	03X2X0,34	gy	50	9,1	85	dr.

Li2YCY PiMF

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
034580	04X2X0,34	gy	61	9,4	103	dr.
032142	08X2X0,34	gy	115	13,4	191	dr., c. 100
034581	10X2X0,34	gy	150	14,3	230	dr.
034587	02X2X0,75	gy	61	10,4	117	dr.
034588	03X2X0,75	gy	97	11,3	142	dr.
034589	04X2X0,75	gy	141	14	222	dr.
032365	02X2X1	gy	72	11,7	130	dr.
034596	03X2X1	gy	104	12,2	158	dr.
031778	04X2X1	gy	187	12,7	360	dr., c. 100
034604	02X2X1,5	gy	81	12,8	164	dr.
034606	03X2X1,5	gy	141	14,1	197	dr.
034605	04X2X1,5	gy	261	17,4	480	dr.
034607	05X2X1,5	gy	284	18,4	516	dr.

Li12YC11Y

Application:
Highly-flexible data cable for continuous mobile use under extreme conditions with particular requirements on EMC. The cable is halogen-free, flame resistant, hydrolysis- and microbe-resistant and largely oil-resistant. Please note our instructions for the use of drag-chain cables.

nominal voltage U	300 V
test voltage	1500 V
core identification	colours acc. DIN 47100
operating capacity	70 nF/km
conductor material	bare copper
conductor construction	fine stranded class 6
insulation	TPE
screen coverage	85 %
transfer impedance	250 Ohm/km
sheathing material	polyurethan
max. operating temperature, fixed	-40 - +80 °C
temperature, moved/ during installation	-20 - +80 °C
bending radius, moved application	7,5 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032139	02X2X0,25	gy	36	6,1	60	dr.
032118	03X2X0,25	gy	46	8,1	72	dr.
032106	04X2X0,25	gy	50	8,9	89	dr.
032849	02X2X0,5	gy	52	7,2	100	dr.
032893	03X2X0,5	gy	73	10,4	118	dr.
032317	04X2X0,5	gy	75	11,4	148	dr., c. 100, c. 50
032860	02X2X0,75	gy	62	9,6	112	dr.
033254	03X2X0,75	gy	86	11,4	152	dr.
033255	04X2X0,75	gy	101	12,5	170	dr.
033256	05X2X0,75	gy	113	13,5	203	dr.
033257	06X2X0,75	gy	135	14,7	229	dr.
033258	08X2X0,75	gy	192,2	18,1	343	dr.
033259	10X2X0,75	gy	258	20,7	467	dr.
033260	14X2X0,75	gy	317	20,7	546	dr.
032063	02X0,25	gy	18,1	4,5	38	dr.
033155	03X0,25	gy	21	5,1	42	dr.
033156	04X0,25	gy	26	5,5	49	dr.
031062	05X0,25	gy	28,1	6,1	53	dr.
032854	07X0,25	gy	46	6,7	80	dr.
032034	10X0,25	gy	54	8,5	109	dr., c. 100
033157	12X0,25	gy	67	8,8	124	dr.
031317	14X0,25	gy	74	9,2	119,4	dr.
033158	18X0,25	gy	85	11	112	dr.
032912	24X0,25	gy	114	12,3	195	dr.
032913	25X0,25	gy	101	12,3	210	dr.
033159	02X0,34	gy	20	4,9	31	dr.

Li12YC11Y

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031296	03X0,34	gy	24	5,4	44	dr.
031297	04X0,34	gy	36	6,2	52	dr.
033160	05X0,34	gy	39,1	6,8	52	dr.
033161	07X0,34	gy	55	7,6	72	dr.
033162	10X0,34	gy	70	9,3	99	dr.
033241	12X0,34	gy	80	9,4	166	dr.
033242	14X0,34	gy	89	9,6	116	dr.
033243	18X0,34	gy	110	10,5	140	dr.
033244	24X0,34	gy	147,1	12,9	300	dr.
032892	25X0,34	gy	155	12,8	292	dr.

LiHCH

operating capacity	120 nF/km
nominal voltage U_o	250 V
test voltage	1200 V
core identification	colours acc. DIN 47100
conductor material	bare copper
conductor construction	fine stranded, class 5
insulation	FRNC compound HI1
sheathing material	FRNC-compound HM1
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-30- +70 °C
bending radius, fixed installation	7,5 x D_A
bending radius, moved application	15 x D_A

Application:
For signal transmission between electronic devices, in computer systems or process control units with increased requirements to electromagnetic compatibility.

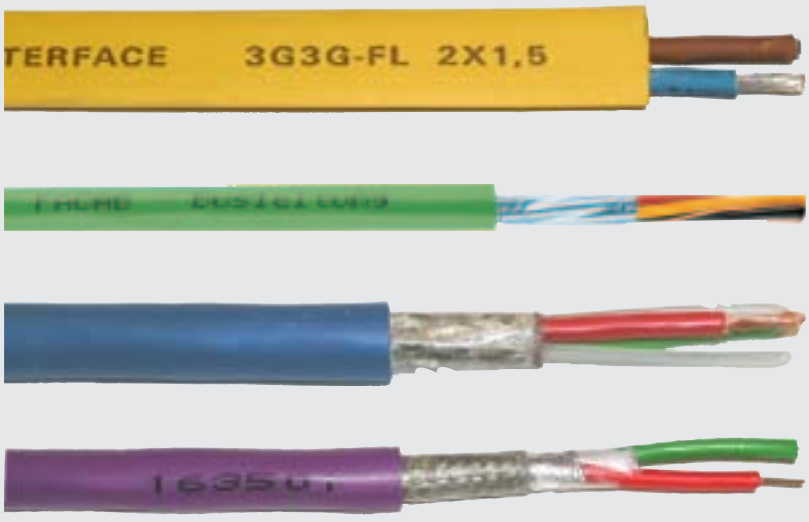
p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032696	02X0,5	gy	29	5,8	38	dr.
032697	03X0,5	gy	35	6,1	47	dr.
032698	04X0,5	gy	45	6,5	62	dr.
032104	05X0,5	gy	54	7,2	76	dr.
032700	07X0,5	gy	72	7,9	86	dr.
032107	12X0,5	gy	101	9,8	148	dr.
032105	18X0,5	gy	143	11,7	210	dr.
032703	25X0,5	gy	211	13,9	319	dr.
031966	02X0,75	gy	35	6,2	45	dr.
031963	03X0,75	gy	46	6,5	60	dr.
031833	04X0,75	gy	58	7,2	92	dr.
031964	05X0,75	gy	70	7,8	97	dr.
031967	07X0,75	gy	90	8,5	120	dr.
032085	12X0,75	gy	154	11,1	196	dr.
032705	18X0,75	gy	195	12,7	327	dr.
032706	25X0,75	gy	280	15,5	454	dr.
032662	02X1	gy	43	6,5	72	dr.
032707	03X1	gy	56	7	90	dr.
032664	04X1	gy	68	7,5	109	dr.
032708	05X1	gy	79	8,2	126	dr.
032709	07X1	gy	118	8,8	171	dr.
032710	02X1,5	gy	58	7,7	90	dr.
032711	03X1,5	gy	74	8,1	115	dr.
032712	04X1,5	gy	108	8,7	153	dr.
032713	05X1,5	gy	129	9,5	176	dr.

LiHCH

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
031809	07X1,5	gy	164	10,7	220	dr.
031872	02X2X0,25	gy	28	7,2	54	dr.
031816	03X2X0,25	gy	39,6	7,3	66	dr.
032658	04X2X0,25	gy	54,5	8,1	81	dr.
031846	06X2X0,25	gy	69,5	9,1	115	dr.
032724	08X2X0,25	gy	78	10,5	130	dr.
032725	10X2X0,25	gy	110	11,2	155	dr.
031817	12X2X0,25	gy	120	12,1	190	dr.
031818	02X2X0,5	gy	48,1	8,8	93	dr., c. 100
031896	03X2X0,5	gy	73,7	9	129	dr.
032728	04X2X0,5	gy	82	10,3	140	dr.
032729	06X2X0,5	gy	110	11,4	187	dr.
032730	08X2X0,5	gy	139	13,3	259	dr.
032731	12X2X0,5	gy	199	16	342	dr.
032732	02X2X0,75	gy	65	9,5	106	dr.
032733	03X2X0,75	gy	92	10,1	138	dr.
032659	04X2X0,75	gy	115	11,5	170	dr.
032734	06X2X0,75	gy	146	13,4	241	dr.
032735	08X2X0,75	gy	180	14,9	305	dr.
032736	12X2X0,75	gy	270	18,3	441	dr.

Bus cables, industrial

	Type	CU kg/km	G kg/km	D_A [mm]
100456	FACAB EIB-Busleitung halogenfrei 02X2X0,8 GN	21	55	6,3
100396	FACAB EIB-Busleitung 02X2X0,8 GN	21	55	6,3
101011	FACAB EIB-Busleitung 04X2X0,8 GN	41	92	
101010	FACAB EIB-Busleitung 02X2X0,8 GN	21	55	6,3
100569	FACAB AS-Interface BUS Gummi 02X1,5 SW	29	57	4 x 10
100568	FACAB AS-Interface BUS Gummi 02X1,5 GE	29	57	4 x 10
100571	FACAB AS-Interface BUS TPE 02X1,5 SW	28	57	4 x 10
100570	FACAB AS-Interface BUS TPE 02X1,5 GE	28	57	4 x 10
100926	CAN-Bus-Sk PUR 04X1X0,25 VL	41,3	58	9,6
100573	CAN-Bus UL/CSA Li02YSC11Y 02X2X0,5 VL	59,4	106	9,6
100574	CAN-Bus Li02YSCY 02X2X0,5 VL	59,4	106	9,6
100961	CAN-Bus UL/CSA Li02YSCY 02X2X0,34 VL	46,4	88	8,0
100613	CAN-Bus UL/CSA Li02YSCY 01X2X0,34 VL	23	55	6,5
100621	CAN-Bus UL/CSA Li02YSCY 02X2X0,22 VL	36	70	6,9
100578	Profibus Schleppkette L2/FIP/DP/FMS AD(St)C11Y 01X2X0,64 VL	28	64	8,1
100935	Profibus Festoon PVC L2/FIP/DP/FMS 01X2X0,65 PT	30,1	63	8,3
100488	Profibus Erdverlegung L2/FIP/DP/FMS 2Y(St)CY2Y 01X2X0,64 SW	26	87	10,0
100579	Profibus UL/CSA L2 FIP/DP/FMS 2Y(St)CY 01X2X0,64 VL	26	57	7,8
100576	Profibus Fast Connect L2/FIP/DP/FMS 2YY(St)CY 01X2X0,64 VL	26	60	7,8
100544	Profibus FRNC L2/FIP/DP/FMS 2Y(St)CH 01X2X0,64 GN	22,4	55	7,8
100575	Profibus PVC L2/FIP/DP/FMS 2Y(St)CY 01X2X0,64 VL	26	57	7,8
100533	Sprechanlagen-Bus FRNC LiH 02X1,5 + Li2Y 02X2X0,6 GR	57	90	8,5
100503	Sprechanlagen-Bus LiY 02X1,5 + Li2Y 02X2X0,6 GN	53	90	8,5
100543	Profibus PA 01X2X1 SW Wellenwiderstand 100 +- 20 Ohm	45	73	7,9
100542	Profibus PA 01X2X1 BL Wellenwiderstand 100 +- 20 Ohm	45	73	7,9
033831	AES/EBU & DMX 110 Ohm (02X0,34)StDY BL	50	10,2	6,6
033833	AES/EBU & DMX 110 Ohm (04X0,34)StCY SW	33	65	7,2



Frequently used bus-systems

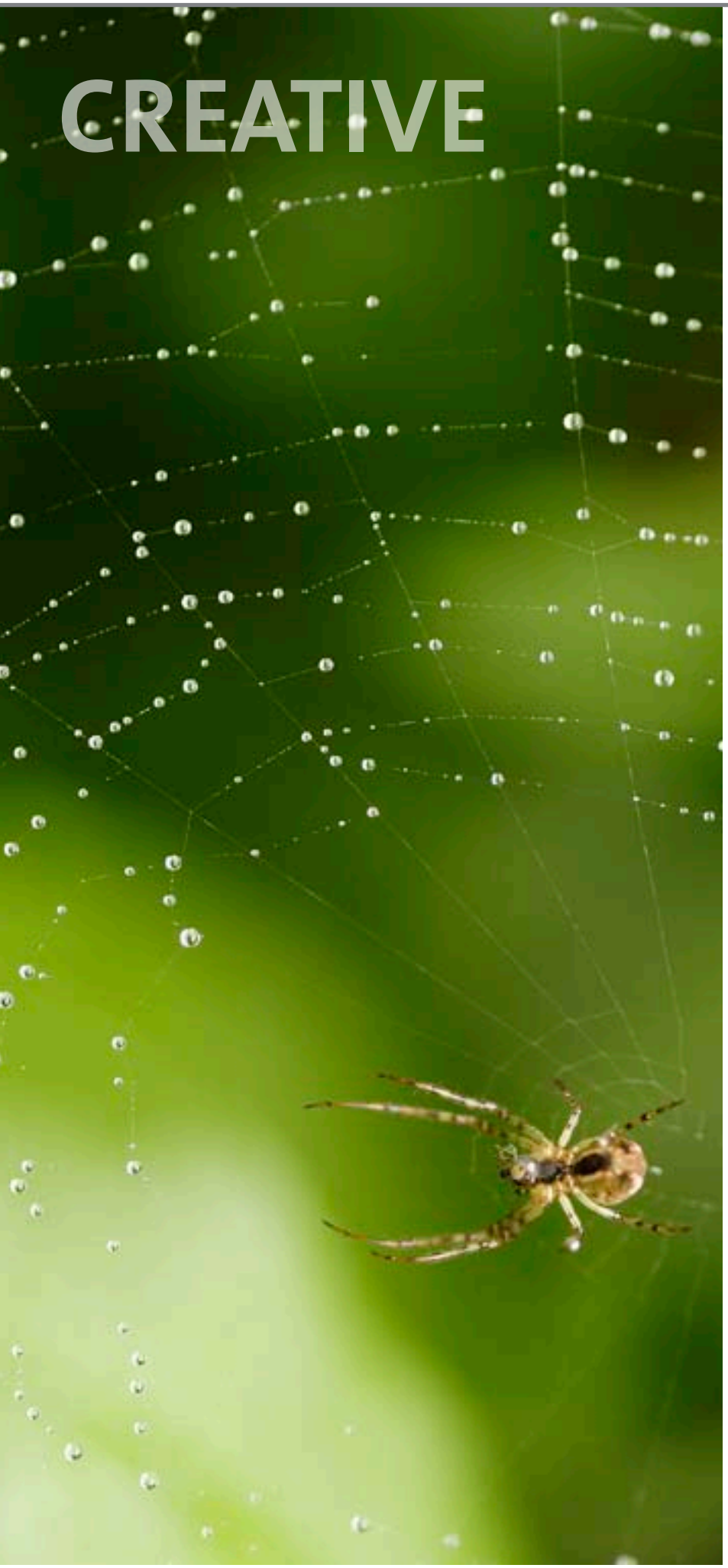
Application:
The use of sensors, actors and processing electronics has been a standard instrument in industrial measurement, control and regulation technology for decades now. In this area, systems using distributing intelligence compete with centrally organised systems. In all cases, however, data must be transported to and from the sources, consumers or processors of information. In most cases this still takes place through copper data cables, although wireless radio or IR solutions or optic fibre cables are gaining more and more ground. Together with the corresponding transmitting and receiving components, these data cables form a so-called bus system. Even if the interior of the data lines in most systems is quite similar (one or two pairs of twisted wires mfor serial data transmission), each different system supplier has still developed a series of more or less proprietary cables which have been specially designed for the application of his individual bus system.

In the meantime, components for many bus systems are certified by the body which determines the bus specifications. This reveals that the differences between the individual cables of different bus systems or within one single system are less to be found in the electrical or transmission technology properties of the cables but rather in their suitability for often extremely limited applications, e.g. their use in drag chains, laying directly in the ground or resistance against various environmental factors. In some systems, the power for the individual components is also supplied via the bus alongside the data, sometimes even via the same pair of wires. Furthermore, most cable types are available in a "conventional" (usually PVC-covered) or halogen-free version.

Frequently used bus-systems

Typ	Standard	Structure of network	Data rate
Interbus		Ring	500 kBit/s
PROFIBUS	IEC 61158	linear	500 kBit/s
CAN (Controller-Area Network)	ISO 11898-2	linear/Stern	100 kBit/s
AS-I (Actor-Sensor Interface)	EN 50295, IEC 62026-2	jede	167 kBit/s
LON (Local Operating Network)	EN 14908		
EIB/KNX	EN 50090, ISO/IEC 14543	linear	
DeviceNetTM	ODVA		
DESINA	VDW		

Notes:



Content

NHXH-J/-O E30

standard	VDE 0266
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	4 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
conductor material	bare copper
conductor construction	class 1, from 25 sqmm class 2
insulation	FRNC compound HI1
sheathing material	FRNC-compound HM1
maximum temperature at conductor	90 °C
max. operating temperature, fixed	-5 - +70 °C
bending radius, fixed installation	12 x D_A
circuit integrity	E 30
Circuit integrity	FE 180
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24

Application:
For installation in dry and wet rooms, also for direct bedding in concrete, but not for direct burial in ground and not for use in water. The cable has improved flame retardant and may be used in public buildings with high safety requirements. Cables are halogen free, low smoke density and are fire resistant according to VDE 0472 part 814 (180 min., = IEC 60331). Furthermore the cable passed the test of 30 min. circuit integrity according to DIN 4102 part 12 (E 30) for all so called standard-installation systems (ladder, tray and ceiling) and is suitable for installation in fire alarm systems, safety lightning and other emergency electrical supply systems according to VDE 0108. A special test certificate about the circuit integrity is issued by the „Amtlichen Materialprüfanstalt für das Bauwesen". For calculation of electrical systems with circuit integrity has to bee considered that electrical resistance of copper conductors at 800 °C is approximately four times higher than at 20 °C and the current carrying capacity is reduced respectively.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011238	01X4	og	38	6,9	100	dr.
011240	01X6	og	58	7,9	120	dr.
011229	01X10	og	96	8,1	160	dr.
011232	01X16	og	154	8,9	200	dr.
011235	01X25	og	240	10,9	310	dr.
011237	01X35	og	336	11,9	410	dr.
011239	01X50	og	480	12,9	540	dr.
011241	01X70	og	672	15,9	740	dr.
011242	01X95	og	912	17,9	1020	dr.
011230	01X120	og	1152	18,9	1380	dr.
011231	01X150	og	1440	20,9	1560	dr.
011233	01X185	og	1776	23,9	1930	dr.
011234	01X240	og	2304	26,9	2540	dr.
011236	01X300	og	2880	32,9	3180	dr.
011243	02X1,5	og	29	10,2	190	dr.
011246	02X2,5	og	48	10,9	220	dr.
011248	02X4	og	77	11,9	270	dr.
011249	02X6	og	115	12,8	320	dr.
011244	02X10	og	192	14,4	430	dr.
011245	02X16	og	307	17,3	620	dr.
011247	02X25	og	480	21,1	900	dr.
012034	01X185	og	1776	23,9	1930	dr.
012198	01X240	og	2304	26,9	2540	dr.
011044	03X1,5	og	43	10,9	210	dr.
011171	03X2,5	og	72	11,9	260	dr.
011172	03X4	og	115	12,9	320	dr.
011194	03X6	og	173	13,9	400	dr.
011182	03X10	og	288	15,9	550	dr.
011185	03X16	og	461	17,9	790	dr.
011251	03X25	og	720	23,9	1150	dr.
011253	03X35	og	1008	25,9	1490	dr.
011255	03X50	og	1440	28,9	1980	dr.
011257	03X70	og	2016	31,9	2830	dr.
011252	03X25/16	og	874	23,4	1500	dr.
011254	03X35/16	og	1162	26,9	1800	dr.
011256	03X50/25	og	1680	29,9	2600	dr.
011258	03X70/35	og	2352	34,9	3400	dr.
011186	03X95/50	og	3216	38,9	4600	dr.
011269	03X120/70	og	4128	42,9	5700	dr.
011270	03X150/70	og	4992	46,9	6800	dr.
011271	03X185/95	og	6240	52,9	8500	dr.

NHXH-J/-O E30

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011272	3X240/120	og	8064	58,8	11000	dr.
011188	04X1,5	og	58	11,9	240	dr.
011045	04X2,5	og	96	12,9	300	dr.
011217	04X4	og	154	13,9	390	dr.
011218	04X6	og	230	14,9	490	dr.
011219	04X10	og	384	16,9	670	dr.
011220	04X16	og	614	19,9	950	dr.
011221	04X25	og	960	24,9	1430	dr.
011189	04X35	og	1344	27,9	1890	dr.
011222	04X50	og	1920	31,9	2510	dr.
011196	04X70	og	2688	36,9	3650	dr.
011261	04X95	og	3648	40,9	4750	dr.
011259	04X120	og	4608	44,9	5910	dr.
011260	04X150	og	5760	49,9	7240	dr.
011190	05X1,5	og	72	12,9	280	dr.
011046	05X2,5	og	120	13,9	354	dr.
011192	05X4	og	192	14,9	450	dr.
011193	05X6	og	288	16,9	570	dr.
011173	05X10	og	480	18,9	820	dr.
011195	05X16	og	768	22,9	1140	dr.
011262	05X25	og	1200	26,6	1710	dr.
012469	05X35	og	1680	30,5	2384	dr.
011047	07X1,5	og	101	13,9	330	dr.
011223	07X2,5	og	168	14,9	430	dr.
011214	12X1,5	og	173	18,9	500	dr.
011180	12X2,5	og	288	21,9	650	dr.
011263	19X1,5	og	274	21,9	720	dr.
011264	19X2,5	og	456	23,9	950	dr.
011265	24X1,5	og	346	24,9	890	dr.
011266	24X2,5	og	576	26,9	1210	dr.
011267	30X1,5	og	432	25,9	1090	dr.
011268	30X2,5	og	720	28,9	1470	dr.

NHXCH E30

standard	VDE 0266
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	4 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
conductor material	bare copper
conductor construction	class 1, from 25 sqmm class 2
insulation	FRNC compound HI1
sheathing material	FRNC-compound HM1
maximum temperature at conductor	90 °C
max. operating temperature, fixed	-5 - +70 °C
bending radius, fixed installation	12 x D_A
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
circuit integrity	E 30
Circuit integrity	FE 180

Application:
For installation in dry and wet rooms, also for direct bedding in concrete, but not for direct burial in ground and not for use in water. The cable has improved flame retardant and may be used in public buildings with high safety requirements. Cables are halogen free, low smoke density and are fire resistant according to VDE 0472 part 814 (180 min., = IEC 60331). Furthermore the cable passed the test of 30 min. circuit integrity according to DIN 4102 part 12 (E 30) for all so called standard-installation systems (ladder, tray and ceiling) and is suitable for installation in fire alarm systems, safety lightning and other emergency electrical supply systems according to VDE 0108. A special test certificate about the circuit integrity is issued by the „Amtlichen Materialprüfanstalt für das Bauwesen". For calculation of electrical systems with circuit integrity has to bee considered that electrical resistance of copper conductors at 800 °C is approximately four times higher than at 20 °C and the current carrying capacity is reduced respectively.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011505	02X1,5/1,5	og	52	10,8	300	dr.
011506	02X2,5/2,5	og	80	11,9	350	dr.
011507	02X4/4	og	123	12,9	420	dr.
011278	03X1,5/1,5	og	66	11,9	320	dr.
011215	03X2,5/2,5	og	104	12,9	380	dr.
011831	03X150/70	og	5100	46,9	7713	dr.
011832	03X185/95	og	6383	52,9	8810	dr.
011280	04X1,5/1,5	og	81	13,9	249	dr.
011281	04X2,5/2,5	og	128	14,1	313	dr.
011282	04X4/4	og	200	14,9	412	dr.
011226	04X6/6	og	297	16,9	522	dr.
011224	04X10/10	og	504	18,9	746	dr.
011181	04X16/16	og	796	21,9	1119	dr.
011167	04X25/16	og	1142	26,9	1583	dr.
011183	04X35/16	og	1526	29,9	2002	dr.
011227	04X50/25	og	2203	33,9	2700	dr.
011168	04X70/35	og	3082	38,9	3838	dr.
011184	04X95/50	og	4208	42,9	5181	dr.
011274	04X120/70	og	5388	46,9	6500	dr.
011275	04X150/70	og	6540	52,9	7950	dr.
011276	04X185/95	og	8159	58,9	10130	dr.
011277	04X240/120	og	10546	64,9	13190	dr.
011279	07X1,5/2,5	og	133	16,9	500	dr.
011283	07X2,5/2,5	og	200	17,9	600	dr.
011284	12X1,5/2,5	og	205	19,9	700	dr.
011285	12X2,5/4	og	334	21,9	900	dr.

NHXH-J/-O E90

Application:
For installation in dry and wet rooms, also for direct bedding in concrete, butnot for direct burial in ground and not for use in water. The cable has improved flame retardant and may be used in public buildings with high safety requirements. Cables are halogen free, low smoke density and are fire resistant according to VDE 0472 part 814 (180 min., = IEC 331) Furthermore the cable passed the test of 90 min. circuit integrity according to DIN 4102 part 12 (E 90) for all so called standard-installation systems (ladder, tray and ceiling) and is suitable for installation in fire alarm systems, safety lightning and other emergency electrical supply systems according to VDE 0108. A special test certificate about the circuit integrity is issued by the „Amtlichen Materialprüfanstalt für das Bauwesen". For calculation of electrical systems with circuit integrity has to bee considered that electrical resistance of copper conductors at 1000 °C is approximately 4,5 times higher than at 20 °C and the current carrying capacity has to be reduced respectively.

standard	VDE 0266
core identification	colours acc. VDE 0293 (HD308)
test voltage	4 kV
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
conductor material	bare copper
conductor construction	class 1, from 25 sqmm class 2
insulation	FRNC compound HI1
sheathing material	FRNC-compound HM1
maximum temperature at conductor	90 °C
max. operating temperature, fixed	-5 - +70 °C
bending radius, fixed installation	12 x D_A
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
circuit integrity	E 90
Circuit integrity	FE 180

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
012020	01X16	og	154	10,5	230	dr.
012021	01X25	og	240	12,5	340	dr.
012022	01X35	og	336	13,5	440	dr.
011757	01X50	og	480	13,9	600	dr.
011843	01X70	og	672	16,5	800	dr.
011756	01X95	og	912	18,9	1100	dr.
011744	01X120	og	1152	20,5	1350	dr.
011177	01X150	og	1440	22,5	1650	dr.
011755	01X185	og	1776	24,9	2000	dr.
011754	01X240	og	2304	27,9	2600	dr.
011178	01X300	og	2880	30,9	3200	dr.
012221	01X400	og	3840	34,9	4200	dr.
012011	02X1,5	og	29	13,9	210	dr.
010951	03X1,5	og	43	14,9	210	dr.
010952	03X2,5	og	72	15,9	243	dr.
010953	03X4	og	115	16,7	302	dr.
010954	03X6	og	173	17,8	399	dr.
010955	03X10	og	288	19,4	546	dr.
010956	03X16	og	461	22,3	765	dr.
010957	04X1,5	og	58	16,1	245	dr.
010958	04X2,5	og	96	16,9	299	dr.
010959	04X4	og	154	17,9	376	dr.
010960	04X6	og	230	19,2	474	dr.
010961	04X10	og	384	21,1	657	dr.
010962	04X16	og	614	24,3	973	dr.
010963	04X25	og	960	28,1	1422	dr.
010964	04X35	og	1344	30,9	1858	dr.
011950	04X50	og	1920	35,1	2900	dr.
011955	04X70	og	2688	39,9	3900	dr.
011949	04X95	og	3648	45,2	5200	dr.
011956	04X120	og	4608	48,9	6300	dr.
011869	04X150	og	5760	50,9	6800	dr.
011963	04X240	og	9216	64,9	10700	dr.
010965	05X1,5	og	72	17,4	290	dr.
010966	05X2,5	og	120	18,4	359	dr.
010967	05X4	og	192	19,5	457	dr.
010968	05X6	og	288	20,9	577	dr.
010969	05X10	og	480	22,9	807	dr.
010970	05X16	og	768	26,6	1145	dr.
010971	05X25	og	1200	30,9	1765	dr.
012042	05X50	og	2400		3700	dr.

Cabel with circuit integrity E30 or E90

NHXH-J/-O E90

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
010989	07X1,5	og	101	18,6	350	dr.
011124	07X2,5	og	168	19,8	443	dr.
011020	12X1,5	og	173	23,5	545	dr.
011982	12X2,5	og	288	25,2	780	dr.
011162	24X1,5	og	346	26,9	735	dr.

NHXCH E90

standard	VDE 0266
core identification	colours acc. VDE 0293 (HD308)
nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	4 kV
maximum permitted operating voltage in 3-phase systems	1,2 kV
conductor material	bare copper
conductor construction	class 1, from 25 sqmm class 2
insulation	FRNC compound HI1
sheathing material	FRNC-compound HM1
maximum temperature at conductor	90 °C
max. operating temperature, fixed	-5 - +70 °C
bending radius, fixed installation	12 x D_A
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
circuit integrity	E 90
Circuit integrity	FE 180

Application:
For installation in dry and wet rooms, also for direct bedding in concrete, butnot for direct burial in ground and not for use in water. The cable has improved flame retardant and may be used in public buildings with high safety requirements. Cables are halogen free, low smoke density and are fire resistant according to VDE 0472 part 814 (180 min., = IEC 331) Furthermore the cable passed the test of 90 min. circuit integrity according to DIN 4102 part 12 (E 90) for all so called standard-installation systems (ladder, tray and ceiling) and is suitable for installation in fire alarm systems, safety lightning and other emergency electrical supply systems according to VDE 0108. A special test certificate about the circuit integrity is issued by the „Amtlichen Materialprüfanstalt für das Bauwesen". For calculation of electrical systems with circuit integrity has to bee considered that electrical resistance of copper conductors at 1000 °C is approximately 4,5 times higher than at 20 °C and the current carrying capacity has to be reduced respectively.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011042	03X1,5/1,5	og	66	16,8	348	dr.
011043	03X2,5/2,5	og	104	17,9	410	dr.
011209	03X4/4	og	161	18,9	500	dr.
011208	03X6/6	og	240	20,9	614	dr.
011207	03X10/10	og	408	24,1	830	dr.
011206	03X16/16	og	643	27,3	1073	dr.
011205	03X25/16	og	902	30,7	1450	dr.
011204	03X35/16	og	1190	33,3	1798	dr.
011197	03X50/25	og	1723	37,4	2394	dr.

NHXCH E90

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
011203	03X70/35	og	2410	42,5	2796	dr.
011213	03X95/50	og	3296	47,8	4434	dr.
011202	03X120/70	og	4236	51,4	5534	dr.
011201	03X150/70	og	5100	55,7	6546	dr.
011200	03X185/95	og	6383	61,7	8303	dr.
011198	03X240/120	og	8242	67,9	10605	dr.
010995	04X1,5/1,5	og	81	17,9	398	dr.
010996	04X2,5/2,5	og	128	19,2	470	dr.
010997	04X4/4	og	200	20,3	578	dr.
010987	04X6/6	og	297	22,5	726	dr.
010994	04X10/10	og	504	26,4	983	dr.
010998	04X16/16	og	796	29,3	1370	dr.
010999	04X25/16	og	1142	33,1	1904	dr.
010993	04X35/16	og	1526	35,9	2427	dr.
011000	04X50/25	og	2203	41,1	3177	dr.
011001	04X70/35	og	3082	46,2	4378	dr.
011002	04X95/50	og	4208	51,9	5803	dr.
011003	04X120/70	og	5388	55,9	7230	dr.
011004	04X150/70	og	6540	60,9	8707	dr.
011005	04X185/95	og	8159	67,5	10894	dr.
011006	04X240/120	og	10546	74,4	13933	dr.
011747	05X2,5/2,5	og	152		480	dr.
011749	05X4/4	og	238	20,5	600	dr.
010988	07X1,5/2,5	og	133	20,9	498	dr.
011007	07X2,5/2,5	og	200	22,1	680	dr.
011008	12X1,5/2,5	og	205	26,2	718	dr.
011009	12X2,5/4	og	334	28,4	1050	dr.
011748	12X4/6	og	528		1100	dr.
011210	24X1,5/6	og	413	37,6	1305	dr.
011211	24X2,5/10	og	696	40,9	1400	dr.
011212	30X1,5/6	og	499	39,8	1519	dr.
011199	30X2,5/10	og	840	42,9	1550	dr.

Cable with circuit integrity E30 or E90

JE-H(St)H FE180/E30

standard	VDE 0815
core identification	colours + rings
conductor material	tinned copper
conductor construction	solid, class 1
insulation	FRNC compound HI1
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
circuit integrity	E 30
Circuit integrity	FE 180
max. operating temperature, fixed	-5 - +50 °C

Application:
For signal transmission within systems for measuring-, data-, control- engineering and as installation cable in fire hazardous rooms with a high concentration of persons or material value, for installation of fire survival cable systems acc. to DIN 4102 part 12. For fixed installation in dry and wet rooms.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100418	02X2X0,8	og	25	7,5	76	dr.
100419	04X2X0,8	og	45	9,3	130	dr.
100420	08X2X0,8	og	85	11,4	232	dr.
100421	12X2X0,8	og	126	13,5	318	dr.
100422	16X2X0,8	og	166	15	430	dr.
100423	20X2X0,8	og	206	16,5	514	dr.
100424	32X2X0,8	og	326	19,5	730	dr.
100425	40X2X0,8	og	407	22,5	962	dr.
100426	52X2X0,8	og	529	25,2	1200	dr.

JE-H(St)H FE180/E30 Brandmeldekabel

core identification	colours + rings
operating capacity	120 nF/km
nominal voltage U	225 V
conductor material	bare copper
insulation	FRNC compound HI1
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
circuit integrity	E 30
Circuit integrity	FE 180
bending radius, fixed installation	15 x D_A
max. operating temperature, fixed	-30 - +70 °C

Application:
For signal transmission between electronic devices, in computer systems of process control units in fire-endangered areas with high person or real value concentration, for installation of circuits with circuit integrity E30/E90 according to DIN 4102 part 12, with tested cable systems. For fixed installation in dry and damp areas on certified carrier systems. By the special seath printing this cable is particularly designed for the use in fire signalisation systems.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100427	02X2X0,8	rd	25	7,5	76	dr.
100428	04X2X0,8	rd	45	9,3	130	dr.
100429	08X2X0,8	rd	85	11,4	232	dr.
100430	12X2X0,8	rd	126	13,5	318	dr.
100431	16X2X0,8	rd	166	15	430	dr.
100432	20X2X0,8	rd	206	16,5	514	dr.
100433	32X2X0,8	rd	326	19,5	730	dr.
100434	40X2X0,8	rd	407	22,5	962	dr.
100435	52X2X0,8	rd	529	25,2	1200	dr.

JE-H(St)H E30-E90

Application:
For signal transmission within systems for measuring-, data-, control- engineering and as installation cable in fire hazardous rooms with a high concentration of persons or material value, for installation of fire survival cable systems acc. to DIN 4102 part 12. For fixed installation in dry and wet rooms.

standard	VDE 0815
core identification	colours + rings
operating capacity	120 nF/km
test voltage	300 V
conductor material	tinned copper
insulation	FRNC compound HI1
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
Circuit integrity	FE 180
circuit integrity	E30-E90
max. operating temperature, fixed	-5 - +50 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100275	02X2X0,8	og	25	7,4	76	dr.
100276	04X2X0,8	og	45	11,1	130	dr.
100277	08X2X0,8	og	85	15,6	232	dr.
100292	12X2X0,8	og	126	18,1	318	dr.
100278	16X2X0,8	og	166	19,8	430	dr.
100279	20X2X0,8	og	206	22,5	514	dr.
100280	32X2X0,8	og	326	27,7	730	dr.
100281	40X2X0,8	og	407	30,8	962	dr.
100282	52X2X0,8	og	529	34,7	1200	dr.

JE-H(St)H E30-E90 BMK

Application:
For signal transmission between electronic devices, in computer systems of process control units in fire-endangered areas with high person or real value concentration, for installation of circuits with circuit integrity E30/E90 according to DIN 4102 part 12, with tested cable systems. For fixed installation in dry and damp areas on certified carrier systems. By the special seath printing this cable is particularly designed for the use in fire signalisation systems.

standard	VDE 0815
core identification	colours + rings
operating capacity	120 nF/km
test voltage	300 V
conductor material	tinned copper
insulation	FRNC compound HI1
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
circuit integrity	E30-E90
Circuit integrity	FE 180
max. operating temperature, fixed	-5 - +50 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100283	02X2X0,8	rd	25	7,4	76	dr.
100284	04X2X0,8	rd	45	11,1	130	dr.
100285	08X2X0,8	rd	85	15,6	232	dr.
100286	12X2X0,8	rd	126	18,1	318	dr.
100287	16X2X0,8	rd	166	19,8	430	dr.
100288	20X2X0,8	rd	206	22,5	514	dr.
100289	32X2X0,8	rd	326	27,7	730	dr.
100290	40X2X0,8	rd	407	30,8	962	dr.
100291	52X2X0,8	rd	529	34,7	1200	dr.

JE-H(St)HRH FE180/E90

standard	VDE 0815
core identification	colours + rings
conductor material	tinned copper
conductor construction	solid, class 1
insulation	FRNC compound HI1
inner sheath	halogenfrei
armour	steel wire braiding, galvanized
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
circuit integrity	E 90
Circuit integrity	FE 180
max. operating temperature, fixed	-5 - +50 °C

Application:
For signal transmission within systems for measuring-, data-, control- engineering and as installation cable in fire hazardous rooms with a high concentration of persons or material value, for installation of fire survival cable systems acc. to DIN 4102 part 12. For fixed installation in dry and wet rooms.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100465	02X2X0,8	rd	25	11,3	174	dr.
100466	04X2X0,8	rd	45	15,3	286	dr.
100467	08X2X0,8	rd	85	22,1	465	dr.
100464	12X2X0,8	rd	126	22,9	600	dr.
100468	20X2X0,8	rd	206	28	777	dr.

Content

Industrial Ethernet

core identification	colours acc. IEC 60708
operating capacity	48 nF/km
test voltage	1000 V
conductor material	bare copper
conductor construction	see part description
insulation	foam-skin
screen coverage	85 %
sheathing material	polyurethan
category	5e
velocity factor	0,75 v/c
impedance	100 Ohm
bending radius, fixed installation	8 x D_A
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-5 - +70 °C

Application:
For connection of IT system units in the desktop and distribution area in industrial environments (INDUSTRIAL ETHERNET). For use in dry and wet rooms as well as temporary outdoors under medium mechanical stress. The AWG 26 version may be connected with RJ 45 plugs.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100717	2X2XAWG 26	gn	35	5,9	45	dr.
100716	2X2XAWG 24	gn	42	5,9	53	dr.
100837	4X2XAWG 26	gn	27		55	dr.
101040	2X2XAWG 22	gn	42	6,5	64	dr.

FACAB dataline 100

Application:
For connection of IT system units in the desktop area, between workstations and as riser cable up to 100 Mbit/s (Categorie 5). It fully complies with the equirements to electromagnitc compatibilty (EMC) of the European Standard EN 55 022.

standard	ISO/IEC 11801, EN 50173, EN 55022, E DIN 44312-5
test voltage	500 V
operating capacity	50 nF/km
conductor material	bare copper
conductor construction	solid, class 1
insulation	polyolefin
sheathing material	polyolefin
category	5
impedance	100 Ohm
bending radius, fixed installation	4 x D_A
bending radius, moved application	8 x D_A
velocity factor	0,66 v/c

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
100366	4X2XAWG 24	og	19,2	6,6	44	dr.
100386	4X2XAWG 26 flex	gy	10	5	27	dr.

FACAB dataline 200

core identification	colours acc. IEC 60708
operating capacity	50 nF/km
loop resistance	170 Ohm/km
conductor material	bare copper
conductor construction	solid, class 1
insulation	cross-linked polyolefin-copolymer
sheathing material	polyolefin-compound HM4, FRNC
max. operating temperature, fixed	-5 - +50 °C
bending radius, fixed installation	8 x D_A
bending radius, moved application	4 x D_A
flame retardant	VDE 0482-332-1-2/IEC 60332-1
category	5e
impedance	100 Ohm
velocity factor	0,66 v/c
transfer impedance	100 Ohm/km

Application:
To the connection of EDP system units within the desktop area (Tertiary period range), as between floor distributors and desktop acc. to category 5e (enhanced). It corresponds to the requirements of the EN 55022 and the guidelines of the European postal administration regarding interferences (EMV). Additionally the tinned screen braid offers a smooth connection to screened data plugs.

p/n	type	colour	CU kg/km	D_A mm	w x h ca. mm	weight ca. kg/km	packaging
100592	4X2XAWG 24	og	29	6,6		54	dr., c. 100
100593	2X4XAWG 24	og	58		13,4 x 6,6	108	dr.

FACAB dataline 1000

Application:
For connection of IT system units in the desktop area, between workstations and as riser cable up to 1000 Mbit/s (category 7+). It fully complies with the requirements to electromagnetic compatibilty (EMC) of the European Standard EN 55022. Additional the copper braiding ensures perfect matching with screened connectors.

core identification	colours acc. IEC 60708
test voltage	500 V
conductor material	bare copper
insulation	foam-PE
transfer impedance	5 Ohm/km
sheathing material	FRNC-compound HM2
flame retardant	VDE 0482-332-1-2/IEC 60332-1
category	7+
velocity factor	0,74 v/c
impedance	100 Ohm
max. operating temperature, fixed	- 20 bis 70 °C
bending radius, moved application	8 x D_A
bending radius, fixed installation	4 x D_A

p/n	type	colour	CU kg/km	D_A mm	w x h ca. mm	weight ca. kg/km	packaging
100952	4X2XAWG 23	og	32	7,5		65	dr., c. 50, c. 100
100951	2X4X2XAWG 23	og	64	15		130	dr., c. 50, c. 100
101043	4X2XAWG 23	og	32	7,5		65	box

FACAB dataline 1000 outdoor

Application:
For connection of IT system units in the desktop area, between workstations and as riser cable up to 1000 Mbit/s (category 7+). It fully complies with the requirements to electromagnetic compatibilty (EMC) of the European Standard EN 55022. Additional the copper braiding ensures perfect matching with screened connectors.

category	7+
conductor material	bare copper
insulation	foam-PE
bending radius, moved application	8 x D_A
bending radius, fixed installation	4 x D_A
sheathing material	polyethylene
for outdoor use	yes
velocity factor	0,78 v/c
impedance	100 Ohm
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-20 - +50 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
101008	4X2XAWG 23	bk	44	9,4	95	dr.

I-V(ZN)H - Standard

fiber quality	standard
standard fiber quality	on request
flame retardant	VDE 0482-332-1-2/IEC 60332-1
sheathing material	FRNC-compound HM1
max. operating temperature, fixed	-20 - 60 °C
temperature, moved/ during installation	-20 - 60 °C
for outdoor use	no

Application:
Indoor distribution cable with tight buffers and LSOH jacket. For installation on cable trays and ducts. The cable offers up to 24 fibers, which may be directly assembled to connectors and are suitable for field-assembly.

p/n	type	colour	D_A mm	weight ca. kg/km	packaging
070114	02X1G50	og	6	19,3	dr.
070112	01X4G50	og	5,1	32	dr.
070113	02X1G62,5	og		19,3	dr.
070111	01X4G62,5	og	5,1	32	dr.
070147	01X6G50	og	5,5	36	dr.
070122	01X8G50	og	5,7	36	dr.
070150	01X10G50	og	6,5	41	dr.
070152	01X12G50	og	6,5	41	dr.
070221	01X16G50	og		43	dr.
070148	01X6G62,5	og	5,5	36	dr.
070149	01X8G62,5	og	5,7	36	dr.
070151	01X10G62,5	og	6,5	41	dr.
070153	01X12G62,5	og	6,5	41	dr.
070241	01X4G50	OH	5,1	32	dr.
070240	02X1G50	OH		19	dr.

I-V(ZN)H - High Grade

fiber quality	high-grade
standard fiber quality	on request
flame retardant	VDE 0482-332-1-2/IEC 60332-1
sheathing material	FRNC-compound HM1
max. operating temperature, fixed	-20 - 60 °C
temperature, moved/ during installation	-20 - 60 °C
for outdoor use	no

Application:
Indoor distribution cable with tight buffers and LSOH jacket. For installation on cable trays and ducts. The cable offers up to 24 fibers, which may be directly assembled to connectors and are suitable for field-assembly.

p/n	type	colour	D_A mm	weight ca. kg/km	packaging
070240	02X1G50	OH		19	dr.
070241	01X4G50	OH	5,1	32	dr.

I-D(ZN)H - Standard

Application:
Optical indoor cable with central multi fiber loose buffer and halogen-free outer sheath. For installation inside of buildings on cabel trays and in cable ducts. The cable must be terminated with a cable termination or in a cable splitter, direct mounting of fiber-connectors is not possible.

fiber quality	standard
standard fiber quality	on request
for outdoor use	no
flame retardant	VDE 0482-332-1-2/IEC 60332-1
sheathing material	FRNC-compound HM1
max. operating temperature, fixed	-20 - 60 °C
temperature, moved/ during installation	-20 - 60 °C

p/n	type	colour	D_A mm	weight ca. kg/km	packaging
070110	01X4G50	og	6	33	dr.
070108	01X8G50	og	6	33	dr.
070106	01X12G50	og	6	33	dr.
070220	01X24G50	og	10	35	dr.
070109	01X4G62,5	og	6	33	dr.
070107	01X8G62,5	og	6	33	dr.
070105	01X12G62,5	og	6	33	dr.
070243	01X8G50	OH	6	33	dr.
070244	01X12G50	OH	6	33	dr.
070245	01X24G50	OH	10	35	dr.
070242	01X4G50	OH	6	33	dr.

I-D(ZN)H - High Grade

Application:
Optical indoor cable with central multi fiber loose buffer and halogen-free outer sheath. For installation inside of buildings on cabel trays and in cable ducts. The cable must be terminated with a cable termination or in a cable splitter, direct mounting of fiber-connectors is not possible.

fiber quality	high-grade
standard fiber quality	on request
for outdoor use	no
flame retardant	VDE 0482-332-1-2/IEC 60332-1
sheathing material	FRNC-compound HM1
max. operating temperature, fixed	-20 - 60 °C
temperature, moved/ during installation	-20 - 60 °C

p/n	type	colour	weight ca. kg/km	packaging
070244	01X12G50	OH	33	dr.
070245	01X24G50	OH	35	dr.
070242	01X4G50	OH	33	dr.
070243	01X8G50	OH	33	dr.

A-DQ(ZN)B2Y

standard	ISO/IEC 794, DIN VDE 0888
standard fiber quality	on request
for outdoor use	yes
flame retardant	no
sheathing material	polyethylene
bendig radius with tension load	220 mm
bending radius without tension load	170 mm
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	0 - +50 °C

Application:
Optical cable with central loose tube, glass yarn strength members/rodentprotection and water blocking elements. Due to the abrasion resistant PE-jacket and good mechanical properties the cable is suitable for installation in trunking in industrial environments or for direct burial.

p/n	type	colour	D_A mm	weight ca. kg/km	packaging
070044	01X4G50	bk	8,4	64	dr.
070137	01X6G50	bk	8,4	64	dr.
070049	01X8G50	bk	8,4	64	dr.
070006	01X12G50	bk	8,4	64	dr.
070089	01X16G50	bk	8,4	64	dr.
070095	01X24G50	bk	8,4	74	dr.
070091	03X12G50	bk	11,5	107	dr.
070086	04X12G50	bk	11,5	107	dr.
070067	01X4G62,5	bk	8,4	64	dr.
070023	01X6G62,5	bk	8,4	64	dr.
070104	01X8G62,5	bk	8,4	64	dr.
070066	01X12G62,5	bk	8,4	64	dr.
070138	01X16G62,5	bk	8,4	64	dr.
070103	01X24G62,5	bk	9,2	74	dr.
070202	03X12G62,5	bk	11,5	107	dr.
070090	04X12G62,5	bk	11,5	107	dr.

A-DQ(ZN)2Y

standard	ISO/IEC 794, DIN VDE 0888
standard fiber quality	on request
for outdoor use	yes
flame retardant	no
sheathing material	polyethylene
bendig radius with tension load	220 mm
bending radius without tension load	170 mm
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	0 - +50 °C

Application:
Optical cable with central or stranded loose tubes, glass yarn strength members/rodent protection and water blocking elements. Due to the wear resistant PE-jacket and good mechanical properties the cable is suitable for installation in trunking in industrial environments or for direct burial. The small bending radius and diameter allow as well an indoor application of the cable, for example as riser.

p/n	type	colour	D_A mm	weight ca. kg/km	packaging
070178	01X4G50	dbu	8,4	60	dr.
070180	01X6G50	dbu	8,4	60	dr.
070182	01X8G50	dbu	8,4	60	dr.
070184	01X12G50	dbu	8,4	60	dr.
070190	01X24G50	dbu	9,2	65	dr.
070179	01X4G62,5	dbu	8,4	60	dr.
070181	01X6G62,5	dbu	8,4	60	dr.
070183	01X8G62,5	dbu	8,4	60	dr.
070185	01X12G62,5	dbu	8,4	60	dr.
070191	01X24G62,5	dbu	9,2	65	dr.

U-DQ(ZN)BH

Application:
LSOH optical cable with central loose tube and glass yarn strength members. For fixed installation indoors and outdoors, as well as for direct burial. The cable is therefore optimally suitable for connection between buildings.

standard	ISO/IEC 794, DIN VDE 0888
standard fiber quality	on request
for outdoor use	yes
flame retardant	VDE 0482-332-1-2/IEC 60332-1
sheathing material	polyolefin
bendig radius with tension load	150 mm
bending radius without tension load	140 mm
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-5 - +50 °C

p/n	type	colour	D_A mm	weight ca. kg/km	packaging
070698	01X12G50	bk	6,4	48	dr.
070699	01X24G50	bk	7,5	62	dr.
070700	01X12G62,5	bk	6,4	48	dr.
070701	01X24G62,5	bk	7,5	62	dr.

A-DQ(ZN)B2Y ... 1,2 kN (Zentralader)

Application:
Optical cable with central loose tube, glass yarn strength members/rodentprotection and water blocking elements. Due to the abrasion resistant PE-jacket and good mechanical properties the cable is suitable for installation in trunking in industrial environments or for direct burial.

standard	ISO/IEC 794, DIN VDE 0888
standard fiber quality	on request
for outdoor use	yes
flame retardant	no
sheathing material	polyethylene
bendig radius with tension load	160 mm
bending radius without tension load	140 mm
max. operating temperature, fixed	-20 - +70 °C
temperature, moved/ during installation	-5 - +50 °C

p/n	type	colour	D_A mm	weight ca. kg/km	packaging
070682	01X12G50	bk	6	43	dr.
070683	01X24G50	bk	7	59	dr.

Notes:

Content

ESUY

test voltage	5 kV
insulation	PVC
conductor material	bare copper
conductor construction	fine stranded class 6
temperature, moved/ during installation	-5 - +70 °C

Application:
Earthing cable with braided fine-wire conductor core for use in portable earthing and short-circuit devices, particularly for repair work on high-voltage systems for the safety of technical personnel.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
033441	01X16	TR	194	9,6	213	dr.
033442	01X25	TR	280	10,7	305	dr.
031947	01X35	TR	415	12,5	575	dr.
032102	01X50	TR	585	14,2	670	dr.
032323	01X70	TR	820	16,8	910	dr.
031915	01X95	TR	1090	19,8	1220	dr.
033163	01X120	TR	1360	23,2	1505	dr.
034775	01X150	TR	1650	26,3	1945	dr.
034776	01X185	TR	2150	30	2395	dr.
034777	01X240	TR	2750	33	3095	dr.

Copper conductor

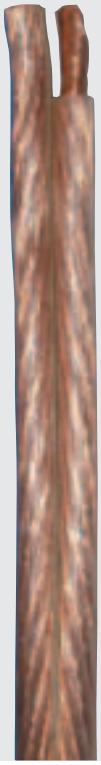
standard	{VDE 0295 / IEC 60228}

Application:
For earthing purposes in electrical installations.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
012238	01x50	VZ	480	9	480	dr.
012240	01x70	VZ	672	10,5	672	dr.
012242	01x95	VZ	912	12,5	912	dr.
012235	01x120	VZ	1152	13,9	1152	dr.
012247	01x150	VZ	1470	15,8	1470	dr.

Content

YFAZ



nominal voltage U	250 V
test voltage	2000 V
conductor material	bare copper
conductor construction	fine stranded class 6
insulation	PVC
flame retardant	VDE 0482-332-1-2/IEC 60332-1
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-10 - +70 °C

Application:
This is a high-quality speaker cable for home application as well as for use in cinemas, theaters and other public buildings. The special construction of copper conductor guarantees long-life flexibility of the cable.

p/n	type	colour	CU kg/km	w x h ca. mm	weight ca. kg/km	packaging
032903	2X0,75/0,2	TR	14,4	4,9 x 2,35	23	dr., c. 100
031807	2X1,5/0,15	TR	30	5,8 x 2,5	42	dr., c. 100, c. 50
031763	2X2,5/0,15	TR	50	7,4 x 3,6	60	dr., c. 100, c. 50
031931	02X4/0,10	TR	80	9,7 x 4,5	105	dr.
031757	02X4/0,15	TR	80	9,7 x 4,5	120	dr., c. 100, c. 50
031764	02X6/0,15	TR	120	12,5 x 6,1	141	dr., c. 100, c. 50
031758	02X6/0,2	TR	120	12,5 x 6,1	141	dr.
031759	02X10/0,1	TR	220	15 x 7	252	dr.
031765	02X10/0,15	TR	200	15 x 7	252	dr.
033743	2X0,75/0,2	wh	14,4		23	dr.

YFAZ Ultraflat

operating capacity	70 nF/km
test voltage	2000 V
conductor material	Oxygen Free Copper (OFC)
insulation	special PVC-compound
flame retardant	no
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-10 - +70 °C

Application:
Universally applicable highly flexible loudspeaker cable for the use in the homes, in cinemas, in theatres and other public buildings. The special conductor construction allows installation below carpets or base-boards. The grove gives the polarity identification.

p/n	type	colour	CU kg/km	w x h ca. mm	weight ca. kg/km	packaging
032289	2X1,5/0,1F	wh	30	12,8 x 2,4	42	dr., c. 100
032290	2X2,5/0,1F	wh	50	14,6 x 2,6	60	dr., c. 100
032291	2X4/0,1F	wh	80	17,5 x 3	105	dr., c. 100

LAS-JZ

Application:
Flexible cord for application in light and sound systems for connection of lamps or speakers. For installation in dry and wet rooms as well as outdoors.

nominal voltage U_o	0,6 kV
nominal voltage U	1 kV
test voltage	4 kV
core identification	gn-ye + numbers
conductor material	bare copper
conductor construction	fine stranded, class 5
maximum temperature at conductor	70 °C
insulation	PVC
sheathing material	PVC
bending radius, moved application	7,5 x D_A
bending radius, fixed installation	4 x D_A
max. operating temperature, fixed	-30 - +70 °C
temperature, moved/ during installation	-5 - +70 °C

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
032915	18X1,5	bk	259,2	15,3	456	dr.
032916	14X2,5	bk	336	16,8	588	dr.
032917	18X2,5	bk	432	18,9	749	dr.

FACAB THERM 145

conductor material	tinned copper
conductor construction	fine stranded, class 5
insulation	cross-linked polyolefin-copo-lymer
sheathing material	cross-linked polyolefin-copo-lymer
flame retardant	VDE 0482-266-2-4/ IEC 60332-3-24
bending radius, fixed installation	4 x D_A
bending radius, moved application	8 x D_A
maximum temperature at conductor	145 °C
max. operating temperature, fixed	-55 - +145 °C
temperature, moved/ during installation	-35 - +125 °C

Application:
This electron-beam-networked halogen-free control cable is used for the connection of lights, heating units and machines, but also for sensors in environments with increased temperatures. In addition to a long working life, the high permissible conductor temperature also guarantees increased current carrying capacity in comparison to conventional cables. The outer sheath is UV- and ozone-resistant, so that the cable can also be used outdoors.

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040416	01X0,75	og	7,2	2,2	11	dr., c. 100
040417	01X0,75	bk	7,2	2,2	11	dr.
040418	01X0,75	vt	7,2	2,2	11	dr., c. 100
040419	01X0,75	dbu	7,2	2,2	11	dr.
040437	01X0,75	bn	7,2	2,2	11	dr.
040404	01X1,5	bn	14,4	3	21	dr.
040423	01X1,5	dbu	14,4	3	21	dr.
040405	01X1,5	ye	14,4	3	21	dr.
040406	01X1,5	gn	14,4	3	21	dr.
040407	01X1,5	gy	14,4	3	21	dr.
040408	01X1,5	lbu	14,4	3	21	dr.
040409	01X1,5	rd	14,4	3	21	dr.
040410	01X1,5	vt	14,4	3	21	dr.
040412	01X1,5	wh	14,4	3	21	dr.
040413	01X1,5	bk	14,4	3	21	dr.
040692	01X1,5	ge/ye	14,4	3	20	dr., c. 100
040664	01X2,5	ge/ye	24	3,7	32	dr.
040424	01X2,5	bn	24	3,7	31	dr.
040425	01X2,5	dbu	24	3,7	31	dr.
040426	01X2,5	rd	24	3,7	31	dr.
040414	01X2,5	bk	24	3,7	32	dr.
040689	01X2,5	gn	24	3,7	32	dr.
040436	01X2,5	wh	24	3,7	32	dr.
040449	01X4	bk	38,4	4,3	48	dr.
040435	01X6	bk	58	6,2	76	dr., c. 100
040430	01X10	bk	96	6,7	120	dr.
040442	01X25	bk	240	10,2	265	dr.
040443	01X35	bk	336	11,7	386	dr.
040389	01X50	bk	480	13,7	580	dr.
040444	01X70	bk	672	15,8	765	dr.
040348	01X95	bk	912	17,3	1040	dr.
040422	01X120	bk	1152	20,2	1273	dr.
040446	01X150	bk	1440	22,1	1582	dr.
040340	01X185	bk	1776	23,6	2100	dr.
040445	01X240	bk	2304	27,7	2526	dr.

FACAB THERM 400

Application:
Thanks to its extremely large usage temperature range, this cable is particularly suitable for use in aerospace applications, in power stations and in chemicals and metallurgy businesses. The conductor resistances varying from copper conductors must be observed!

nominal voltage U_o	300 V
nominal voltage U	500 V
test voltage	2000 V
conductor material	nickel
conductor construction	fine stranded, class 5
insulation	{Glasseidengeflecht, getränkt}
max. operating temperature, fixed	-60 - +400 °C
bending radius, fixed installation	18 x D_A

p/n	type	colour	CU kg/km	D_A mm	weight ca. kg/km	packaging
040398	01X1,5	BE	14,4	2,8	20	dr., c. 100
040669	01X2,5	BE	24	3,4	32	dr., c. 100
040760	01X2,5	bk	24	3,4	32	c. 100, dr.
040670	01X4	BE	38,4	4,5	46	dr., c. 100
040671	01X6	BE	58	4,9	65	dr., c. 100
040382	01X6	bk	57,6	4,9	65	dr., c. 100

RG-cable

Application:
For transmission of data and RF signal ina wide range of frequencies and distances, for connection of receiving and transmitting antennas etc.

p/n	type	Z Ohm	CU kg/km	D_A mm	weight kg/km	packaging
100476	RG 8/U	50	54,8	9,5	125	dr.
100258	RG 11 A/U	75	56	10,2	144	dr.
100104	RG 58 C/U	50	20	5,0	38	dr.
100605	RG 58 C/U FRNC	50	20	5,0	38	dr.
100095	RG 59 B/U	75	24	6,1	57	dr., c. 100
100967	RG 59 B/U FRNC	75	24	6,1	57	dr.
100101	RG 62 A/U	93	25	6,2	52	dr., c. 100
100182	RG 71 B/U	93	45	6,2	65	dr.
100848	RG 142 B/U	50	45	4,6	65	dr.
101019	RG 174 A/U	50	6	2,8	11	dr., c. 100
100353	RG 179 B/U	75	7	2,5	16,5	dr.
100201	RG 213	50	76	10,3	155	dr.
100529	RG 214 /U	50	118	10,8	205	r.

SAT, CATV

Application:
For connection of satelite antennas/dishes, video and BC-TV components, but also for terrestrical antennas.

p/n	type	CU kg/km	G kg/km	D_A mm
110251	A-2YK2Y1 iKx 1,1/7,3 75 Ohm SW	69	142	11,0
110161	A-2YOK2Y1 nKx 2,2/8,8 75 Ohm SW	115	183	12,5
110162	A-2YOK2Y1 qKx 3,3/13,5 75 Ohm SW	208	347	17,0
110250	A-2YOK2Y1 sKx 4,9/19,4 75 Ohm SW	375	500	24,4
100477	FACAB SAT 0,7/2,9 Twin 75 Ohm WS	26	58	4,5x9,0
100616	FACAB SAT 1,0/4,6 DIGITAL 4-S >105 dB 75 Ohm WS	25	48	6,0
100867	FACAB SAT 1,1/5,0 DIGITAL 1GHz 75 Ohm WS	21	51	6,8
100478	FACAB SAT 1,1/5,0 DIGITAL 3 GHz 75 Ohm WS	25	55	6,8
100492	FACAB SAT 1,1/5,0 halogenfrei DIGITAL 3 GHz 75 Ohm WS	25	55	6,8
100594	FACAB SAT Multimedia 0,75/3,4 + 2X2X0,6 75 Ohm WS	23,5	70	11,5 x 5,5
100498	SAT+BK PE Erdkabel 1,6/7,3 DIGITAL 75 Ohm GN	50,5	105	10,3
100463	FACAB VIDEO 0,6/3,7 75 Ohm GN	24	45	6,2
100735	FACAB VIDEO flexibel 0,6L/3,7 75 Ohm GN	24	45	6,2
100469	FACAB VIDEO halogenfrei 0,6/3,7 75 Ohm GN	24	45	6,2
100499	FACAB VIDEO Innenkabel 1,0/6,6 75 Ohm DIGITAL GN	73	140	9,8
100943	FACAB VIDEO Slimline 0,6/2,8 75 Ohm GN	17	32	4,5
101012	Video Systemkabel 0,6/3,7 75 Ohm + 2X0,5 qmm SW	36	96	10,1 x 6,1
100719	Video Systemkabel 0,6/3,7 75 Ohm + 2X0,75 qmm SW	38	98.5	11,8 x 6,1
100731	Video Systemkabel halogenfrei 0,6/3,7 75 Ohm + 2X0,75 qmm GR	38	98.5	11,8 x 6,1

Notes:

Index

Power cables acc. to VDE 0250

□□□□□□ □X□

1 2 3 4 5 6 7 8

1. Relationship to Standards

N	according to VDE
(N)/X	with reference to VDE

2. Insulating materials

Y	PVC
4Y	polyamide
5Y	PTFE (teflon)
6Y	FEP (teflon)
9Y	polypropylen
11Y	polyurethan (PUR)
2X	XLPE
G	elastomer
2G	silicon
3G	EPR-rubber
4G	EVA
5G	polychloroprene
HX	LSOH

3. Cable description

A	single-core
D	solid wire
AF	single-core, fine stranded
F	flexible wire for fittings
L	fluorescent tube cable
LH	connecting cable for light mechanical load
MH	connecting cable for middle mechanical load
SH	connecting cable for, heavy mechanical load
SSH	connecting cable for special mechanical load
SL	control/welding cable
S	control cable
LS	light control cable
FL	flat cable
Si	silicon cable
Z	twin cable
GL	glass fibre
Li	stranded wires acc to. VDE 812
LiF	fine stranded wires acc. to VDE 812

4. Special constructions

T	strength member
ö	oil-resistant
u	flame resistant
w	heat-/weather resistant
FE	fire resistant
C	screen
S	steel wire armouring

5. Sheathing materials I

see 2.insulation materials

P	Polyurethan

6. Protective conductor

-J	with green/yellow core
-O	without green/yellow core

7. Number of cores

8. Cross-section of conductor

Harmonized cables acc. to VDE 0281/0282

□□□□ □□□□□

1 2 3 4 - 5 6 7 8 9

1. Relationship to Standards

H	Harmonized type (HAR)
A	authorised national standards

2. Nominal voltage

01	100 V
03	300/300 V
05	300/500 V
07	450/750 V
11	600/1000 V

3. Insulating materials

V	PVC
V2	PVC (90 oC)
V3	PVC cold-resistant
B	EPR-rubber (90 °C)
G	EVA
E	PE
R	natural or synthetic rubber
S	silicon rubber
X	XLPE
Z	LSOH -compound

4. Sheathing materials

V	PVC
V2	PVC (90 oC)
V3	PVC cold-resistant
V4	PVC cross-linked
V5	PVC oil-resistant
R	natural or synthetic rubber
N	chloroprene rubber
N2	chloroprene rubber for welding cables
N4	chloroprene rubber heat-resistant
N8	chloroprene rubber (water-resistant)
J	glass fibre braid
T	textil braid
T6	textil over each core
Q	polyurethan (PUR)
Q4	polyamide
Z	LSOH -compound

5. Special constructions

C	concentric copper conductor
C4	copper braided screen
H	flat , divisible cords
H2	flat , non divisible cords
H6	flat , non divisible cords for elevators
H7	two-layer insulating jacket
H8	helical cord

6. Conductor form

U	round, solid
R	round, stranded
K	fine stranded, (fixed installation)
F	fine stranded (flexibel cords)
H	fine stranded (highly fexible)
Y	tensil conductor
D	fine stranded for welding cables
E	fine stranded for welding cables (highly fexible)

7. Number of cores

8. Protective conductor

X	without green/yellow core
G	with green/yellow core

9. Cross-section of conductor

Telecommunication cables acc. to VDE 0815/16

□□-□□□ □X□X□ □□

1 2 3 4 5 6 7 8 9 10

1. Relationship to Standards

A	outdoor cable
G	mining cable
J	installation cable
L	equipment wire
S	switch cable
Li	equipment wire with fine stranded conductor
RD	rhenomatic-cable
RE	instrumentation cable

2. Additional specifications

B	lightning protection
J	Indukction protection
E	Industry-electronics

3. Insulating materials

Y	PVC
2Y	PE
02Y	cell-PE
02YS	foam-Skin
5Y	PTFE (teflon)
6Y	FEP (teflon)
7Y	ETFE (teflon)
P	paper

4. Special construction

F	petrol jelly filler
L	aluminium sheath
LD	corrugated Al.-sheath
(L)	laminated aluminium sheath
C	copper braided screen
(St)	screen of plastic coated Al-foil
(K)	copper tape screen
(B)	amouring
(Z)	steel wire amouring
(Zg)	strain-bearing element with glass yarn bundles
(ZN)	strain-bearing element non metalic
W	corrugated steel sheath
M	lead sheath
Mz	special lead sheath
b	amouring
c	jute jacket+ bituminous compund
E	compund with embedded tape

5. Sheathing materials

see 3.insulation materials

6. Number of elements

number of stranding elements

7. Stranding elements

1	single core
2	pair
4	quat

8. Conductor diameter

9. Typ of stranding

F	star quad (railway)
St	star quad with phantom circiut (long distance)
St I	star quad (long distance)
St III	star quad (subscriber line)
TF	star quad for carrier frequenycy
PiMF	pair in metal foil
DIMF	triple in metal foil
ViMF	quad in metal foil

10. Stranding layout

Lg	stranding in layer
Bd	stranding in unit

Power cables acc. to VDE 0276

□□□□□□□□□□ □X□

1 2 3 4 5 6 7 8 9 10 11 12

1. Relationship to Standards

N	according to VDE
(N)	with reference to VDE

2. Conductor

-	copper
A	aluminium

3. Insulating materials

Y	PVC
2Y	PE
2X	XLPE
H	LSOH compound

4. Concentric conductor

C	Concentric copper conductor
CW	Concentric copper conductor reversing lay up

5. Screen

S	common copper shield
SE	individually screened cores

6. Metal sheath

K	lead

7. Inner protection or plastic sheath

see 3.insulation materials

8. Armouring

F	flat steel wire
R	round steel wire
G	steel tape

9. Outer sheath

see 3.insulation materials

10. Protective conductor

-J	with green/yellow core
-O	without green/yellow core

11. Number of cores

12. Conductor form

RE	round, solid
RM	round, stranded
SE	sector shaped, solid
SM	sector shaped, stranded

according to VDE 0815

1. Colour coding for installation cabels
J-Y(St)Y ... Lg

For two-pair cable

pair 1: a-red, b-black
pair 2: a-white, b-yellow

For cables with more than 2 pairs

- The colour of the a-core in the first pair of each layer is red ("counting" pair), in all other pairs it is white.
- The colour of the b-core is blue, yellow, green, brown, black in repeating order as follows:

colour of b-core	Nr. of pair									
blue	1	6	11	16	21	26	31	36	41	46
yellow	2	7	12	17	22	27	32	37	42	47
green	3	8	13	18	23	28	33	38	43	48
brown	4	9	14	19	24	29	34	39	44	49
black	5	10	15	20	25	30	35	40	45	50
blue	51	56	61	66	71	76	81	86	91	96
yellow	52	57	62	67	72	77	82	87	92	97
green	53	58	63	68	73	78	83	88	93	98
brown	54	59	64	69	74	79	84	89	94	99
black	55	60	65	70	75	80	85	90	95	100

2. Colour coding for installation cabels
JE-Y(St)Y ... Bd JE-LiYCY ... Bd JE-H(St)H ... Bd JE-LIHCH ... Bd RD-Y(St)Y AJ-Y(St)YDY Bd Si

For two-pair cable

pair 1: a-blue, b-red
pair 2: a-grey, b-yellow

For cables with more than 2 pairs

Colour of basic insulation of pairs in one bunch:

Paar	1		2		3		4	
core	a	b	a	b	a	b	a	b
colour	blue	red	grey	yellow	green	brown	white	black

For identification of bunches, cores are marked with black rings and bunches are wrapped by a colored tape.

- ring group I
- ring group II
- ring group III
- ring group IV

according to VDE 0815

▶ Identification of bunches

Bunch-N°	Colour of rings	rings for bunches of 4 cores	rings for bunches of 8 cores resp. 4 pairs	tape
1	pink	I	I	-
2		I	II	-
3		II	III	-
4		II	IV	-
5	orange		I	-
6			II	-
7			III	-
8			IV	-
9	violet		I	-
10			II	-
11			III	-
12			IV	-
13	pink		I	blue
14			II	
15			III	
16			IV	
17	orange		I	red
18			II	
19			III	
20			IV	

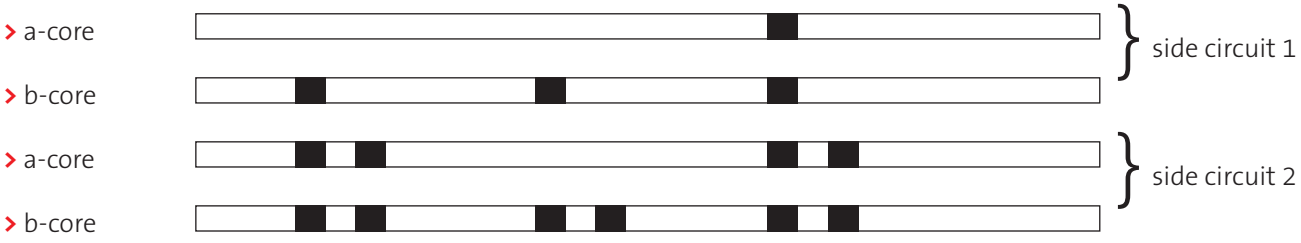
▶ 3. Colour coding for installation cables

J-YY ... Bd **J-H(St)H ... Bd** **J-2Y(St)Y St III Bd**

The five star-quads of each bunch have the following identification:

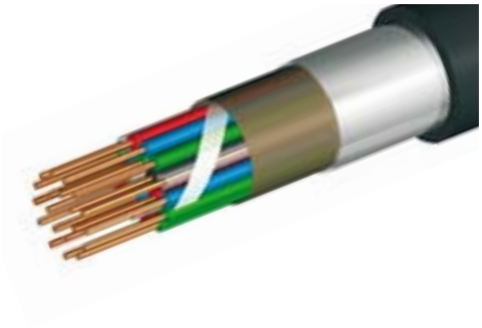
1. basic insulation of all cores rot
2. basic insulation of all cores green
3. basic insulation of all cores grey
4. basic insulation of all cores yellow
5. basic insulation of all cores white

The cores within one star-quad are marked by rings:



The counting bunch is marked by a red tape in each layer. All other bunches have a white or nature tape.

4. Core identification for outdoor telephone cables

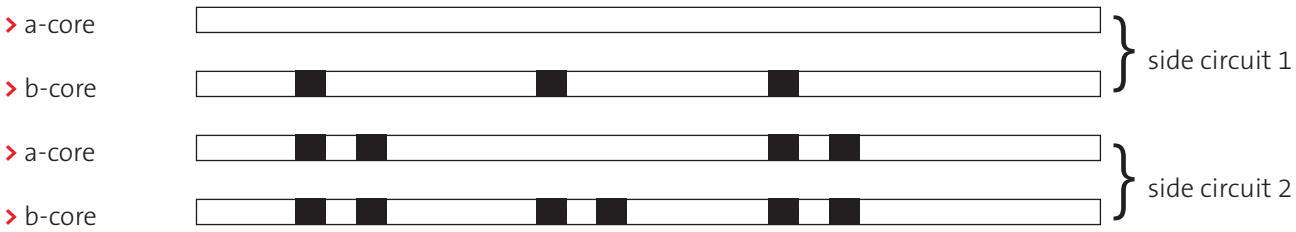


The five star-quads of each basic unit have the following identification:

Quad 1. basic insulation of all cores red
Quad 2. basic insulation of all cores green
Quad 3. basic insulation of all cores grey
Quad 4. basic insulation of all cores yellow
Quad 5. basic insulation of all cores white

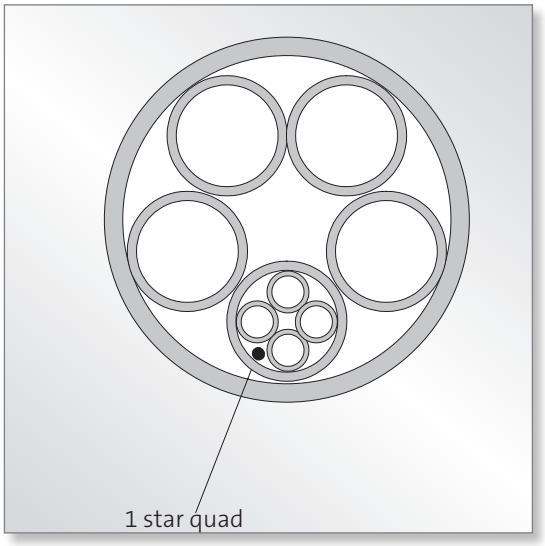
The basic insulation of spare quads is red.

The cores within one star-quad are marked by rings:

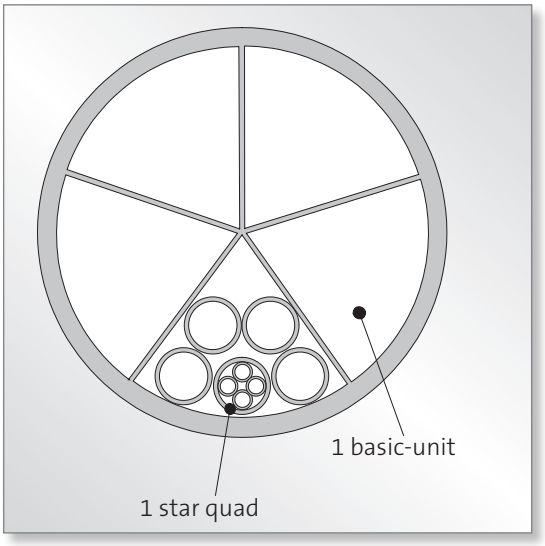


The first basic- or main-unit in each layer is to be marked by an open helix of plastic tape of red (marker). All other basic- or main-units must be wrapped with an open helix of white or uncoloured plastic tape. The quads of a basic-unit are to be counted according to the sequence of basic colours. In cables with more than 5 star quads, the basic- and main-units must be counted continuously beginning with maker-unit at inner layer towards outside.

Examples for unit stranding:



› 5 star quads stranded into basic unit



› 5 basic units each stranded into one main unit = 50 D_A

FACAB® dataline LWL colour code

The following colors are used for identification of fibers in loose tubes of standard optical cables (with reference to VDE 0888-3, IEC 60304):

Fiber-N°.	colour
1	red
2	green
3	yellow
4	blue
5	white
6	violet
7	orange
8	black
9	grey
10	brown
11	pink
12	turquoise
13	red/black
14	green/black
15	yellow/black
16	blue/black
17	white/black
18	violet/black
19	orange/black
20	natur/black
21	grey/black
22	brown/black
23	pink/black
24	turquoise/black
25	red/black/black
26	green/black/black
27	yellow/black/black
28	blue/black/black
29	white/black/black
30	violet/black/black
31	orange/black/black
32	natur/black/black
33	grey/black/black
34	brown/black/black
35	pink/black/black
36	turquoise/black/black

The first colour is the basic colour of the fiber, second and third colours are applied as rings on the fiber.

For optical cables with stranded units the following colours are used:

- 1. unit: red (counting unit)
- 2. unit: green (direction unit)
- all other units have natural colour
- blinds are black

according to DIN 47 100 & abbreviations acc. to IEC 60757

The colour code according to **table 1** without repeating colors from core 46 resp. pair 23 is used for electronic cables LiYY, LiYCY and similar types. Counting of cores starts in the outer layer of the strand and is continued through all layers in the same direction. The first colour in the table is the colour of insulation, the second and third ones are printed rings. **Table 2** contains German and English abbreviations for colors acc. to IEC 60757. The table does not correspond to any order of colors/cores in a cable!

> Table 1: Core identification acc. to DIN 47 100

Colour	stranded cores core N°	twisted pairs core	Paar-Nr.
white	1	a	1
brown	2	b	
green	3	a	2
yellow	4	b	
grey	5	a	3
pink	6	b	
blue	7	a	4
red	8	b	
black	9	a	5
violet	10	b	
grey pink	11	a	6
red blue	12	b	
white green	13	a	7
brown green	14	b	
white yellow	15	a	8
yellow brown	16	b	
white grey	17	a	9
grey brown	18	b	
white pink	19	a	10
pink brown	20	b	
white blue	21	a	11
brown blue	22	b	
white red	23	a	12
brown red	24	b	
white black	25	a	13
brown black	26	b	
grey green	27	a	14
yellow grey	28	b	
pink green	29	a	15
yellow pink	30	b	

Colour	stranded cores core N°	twisted pairs core	Paar-Nr.
green blue	31	a	16
yellow blue	32	b	
green red	33	a	17
yellow red	34	b	
green black	35	a	18
yellow black	36	b	
grey blue	37	a	19
pink blue	38	b	
grey red	39	a	20
pink red	40	b	
grey black	41	a	21
pink black	42	b	
blue black	43	a	22
red black	44	b	
white brown black	45	a	23
yellow green black	46	b	
grey pink black	47	a	24
red blue black	48	b	
white green black	49	a	25
brown green black	50	b	
white yellow black	51	a	26
yellow brown black	52	b	
white grey black	53	a	27
grey brown black	54	b	
white pink black	55	a	28
pink brown black	56	b	
white blue black	57	a	29
brown blue black	58	b	
white red black	59	a	30
brown red black	60	b	
black white	61		

> Table 2 Abbreviations of colors according to IEC 60757

colour German	German abbreviation	Colour	English abbreviation
schwarz	SW	black	BK
braun	BR	brown	BN
rot	RT	red	RD
orange	OR	orange	OG
gelb	GE	yellow	YE
grün	GN	green	GN
blau	BL	blue	BU
violett	VI	violet	VT
grau	GR	grey	GY
weiß	WS	white	WH
rosa	RS	pink	PK
gold		gold	GD
türkis	TK	turquoise	TQ
silber		silver	SR
grün-gelb	GG	green-yellow	GNYE

Identification of cores acc. to VDE 0293

1. Cables/cords with gn-ye protective conductor

old DIN VDE 0293		Version	No. of cores	new DIN VDE 0293-308:2003
fixed	flexible			fixed and flexible
gn-ye, bk, bu 	gn-ye, bn, bu 	with gn-ye	3	gn-ye, bu, bn 
gn-ye, bk, bu, bn 		(-J) or ... G ...	4	gn-ye, bn, bk, gy 
gn-ye, bk, bu, bn, bk 			5	gn-ye, bu, bn, bk, gy 

bu= blue, bn = brown, gn-ye = green-yellow, gy = grey, bk = black

2. Cables/cords without gn-ye protective conductor

old DIN VDE 0293		Version	No. of cores	new DIN VDE 0293-308:2003
fixed	flexible			fixed and flexible
bk, bu 	bn, bu 	without gn-ye	2	bu, bn 
bk, bu, bn 			3	bn, bk, gy 
bk, bu, bn, bk 			3½	bu, bn, bk, gy 
bk, bu, bn, bk 		(-O) or ... X ...	4	bu, bn, bk, gy 
bk, bu, bn, bk, bk 			5	bu, bn, bk, gy, bk 

bu= blue, bn = brown, gy = grey, bk = black

Sizes of cable drums

In addition to the below-listed drums (according to DIN 46 391) we may also use **drums made to various manufacturer standards**, with dimensions in between the listed values. In such case our **calculation of the deposit value will be based on the next DIN size up**.

Plastic drums

nominal size	flange diameter (mm)	barrel diameter (mm)	overall width (mm)	drum weight ca. kg
040	400	125	424	4
050	500	150	456	4
055	500	160	450	7
070	710	355	510	15
080	800	400	510	16
090	900	450	680	23
100	1000	500	704	32

Wooden standard drums

nominal size	flange diameter (mm)	barrel diameter (mm)	overall width (mm)	drum weight ca. kg
05	500	150	470	8
07	710	355	520	25
08	800	400	520	31
09	900	450	690	47
10	1.000	500	710	71
12	1.250	630	890	144
14	1.400	710	890	175
16	1.600	800	1.100	280
18	1.800	1.000	1.100	380
20	2.000	1.250	1.350	550
22	2.240	1.400	1.450	710
24	2.400	1.400	1.450	920
25	2.500	1.600	1.450	900
26	2.600	1.600	1.450	1.000
28	2.800	1.800	1.635	1.175

Wooden drums with armoured flanges

nominal size	flange diameter (mm)	barrel diameter (mm)	overall width (mm)	drum weight ca. kg
07	710	355	520	28
08	800	400	520	35
09	900	450	690	51
10	1.000	500	710	78
12	1.250	630	890	165
14	1.400	710	890	199
16	1.600	800	1.100	309
18	1.800	1.000	1.100	413
20	2.000	1.000	1.350	600
20	2.000	1.250	1.350	588
22	2.240	1.120	1.350	750
22	2.240	1.400	1.450	753
25	2.500	1.400	1.450	923
25	2.500	1.250	1.350	925
28	2.800	1.800	1.635	1.280

Legend of icons used in catalogue

cable conform to Low Voltage directive

cable with circuit integrity 30 min

cable with circuit integrity 90 min

screened cable

cable for direct burial

cable with function maintainance 180 min

flame retardant acc. IEC 60332-3

flame retardant acc. IEC 60332-1

cable with GOST certification

cable halogen-free

harmonised cable/wire

cable metal-free (optical)

cable with rodent protection

not for application in power circuits

cable to a large extent oil resistant

cable with low smoke

cable suitable for drag-chains

max. permitted temperature at conductor 70 °C

cable for reeling application

min. installation temperature

installation in free air only with UV-protection (cable not UV-resistant)

installation in free air without protection (cable UV-resistant)

cable with VDE-certification

cable with VdS-approval

cable for use in water

Abbreviations for colours used in FABER – catalogue

B1	dark blue - white
BE	beige
BL	blue
BR	brown
BT	brown-transparent
BW	blue-white
DB	dark blue
DG	dark green
DH	dark blue (high-grade)
DW	dark blue - white
GE	yellow
GG	green-yellow
GN	green
GR	grey
HB	light blue
KG	pine-green
MG	pink
NT	natural

OB	ocean-blue
OF	without colour
OH	orange (high grade)
OR	orange
PT	petrol
PW	white
R1	red-white
RS	pink
RT	red
SG	grey
SH	black (high grade)
SW	black
TB	turquoise
TR	clear transparent
VI	violet
VL	violet
WO	white-orange
WS	white

Delivery and payment terms

1. General:

1.1. The following terms - subject to the stipulations of Point 16 - refer exclusively to business transactions with contractors.

1.2. Our terms apply for all contracts, deliveries and other services that we provide to the purchaser.

1.3. General terms and conditions of the purchaser which vary from our terms are hereby rejected; such terms and conditions do not obligate us even if we do not again expressly reject them. We are only bound by such terms and conditions if we declare ourselves in agreement with their application in writing.

1.4. Subsidiary agreements, reservations, additions etc. require our written confirmation in order to be valid. This also applies to such agreements by which the agreed written form requirement is to be lifted.

2. Quotations, contracts:

2.1. Unless specified otherwise, our quotations are made without commitment.

3. Prices:

3.1. All prices stated by us are subject to value-added tax at the applicable prevailing rate.

3.2. Unless agreed otherwise, prices will be based on the price list issued by us, and which is in effect at the time of the conclusion of the contract.

3.3. Prices include freight charges within the Federal Republic of Germany (mainland), although without unloading and to the loading bay or door of the purchaser.

3.4. For orders below € 1,200.-- total invoice value (without VAT and before metal surcharge), delivery is chargeable. The same applies in the event that, on the instructions of the purchaser, part-deliveries are made to different addresses provided by the purchaser, and these part-deliveries or parts thereof do not exceed the amount of € 1,200.--.

4. Metal rates and calculation:

4.1. Raw material rates will be calculated on the basis of the rates published by the NE metalworkers. Unless agreed otherwise, the rates published in the daily press on the date of receipt of the order will apply for electrolyte copper for conduction purposes (DEL notice) plus purchasing costs incurred, aluminium for conduction purposes and lead in cables to DIN 17640.

4.2. List prices will be adjusted by the product of the NE metal price difference (EURO/kg). The NE metal price difference is obtained from the difference between the basic metal price and the DEL rate including purchasing costs.

5. Retention of ownership

5.1. We retain ownership of the goods supplied by us - hereafter referred to as the retained goods - until full settlement of all claims arising from the business relationship with the purchaser. The retention of ownership also remains in effect if individual claims are included in a current invoice.

5.2. The purchaser is entitled to resell the retained goods in the normal course of business. For the purposes of security, the purchaser hereby relinquishes in our favour his claims arising from the sale against his customer, up to the value of the retained goods.

As long as the purchaser fulfils his obligations toward us, he remains authorised to collect such claims, even though they have been relinquished in our favour. In the case of justifiable grounds however, and especially if the purchaser culpably fails to fulfil his contractual obligations toward us, we are entitled to cancel the above authorisation and disclose the relinquishment that has been made in our favour.

In such a case, the purchaser is obliged to provide us immediately will all information and documentation necessary to make such disclosure.

5.3. A sale in the normal course of business is not considered to have been made if the purchaser assigns the retained goods to a third party, transfers them as security and/or makes them the object of factoring and/or sale-and-lease-back transactions.

The same applies in the event that the purchaser delivers the retained goods to a customer whose terms of business exclude the relinquishment of the claims due to the purchaser.

In cases such as the above, the purchaser is at all times obliged to obtain our written consent before conducting such business.

5.4. In the event of the further reworking and/or processing of the retained goods, this is carried out at our request and on our behalf as the manufacturer in the sense of §§ 950 ff. BGB (German civil code). In this event, we retain ownership of the items created by the reworking and/or processing of the retained goods in the same ratio of the value of the retained goods to the new items created at the time of reworking and/or processing. If other goods not belonging to the purchaser are also processed at the same time, we are entitled to joint ownership of the new items created in the same ratio of the invoice value of the individually processed goods to the total finished value.

If the purchaser then resells the new items manufactured by him, the claims arising to the purchaser are also hereby relinquished in our favour, for the purposes of security, up to the value of the retained goods.

5.5. If the retained goods are damaged, destroyed, or if claims accrue to the purchaser on the grounds of reduction in value of the retained goods against third parties, and especially against insurance companies, these claims are also relinquished in our favour, in accordance with the above and the following stipulations, as security for our claims.

We must be notified immediately and in writing if such claims arise.

5.6. If the value of the securities given to us - the value being calculated on the basis of the relevant resale value, less value-added tax and any prior claims by third parties - consistently exceeds our outstanding claims by more than 50%, we are obliged, at the request of the purchaser, to release any securities no longer required at our own discretion.

5.7. If a cheque/foreign exchange transaction is carried out, payment of the claims due to us is only considered to have been made on the definitive and unreserved fulfilment of all obligations arising in connection with the above payment method, and in the case of a cheque/foreign exchange transaction only after full processing and conversion of the foreign exchange provided.

6. Payment terms:

6.1. Our invoices are payable 30 days after invoice date, without deduction.

6.2. The purchaser may only deduct settlement discount if we have agreed this with him in advance and in writing.

A further requirement for claiming settlement discount is that the purchaser is not in arrears with any of his other payment obligations, and that the invoice amount due to us is either transferred within the agreed period or we receive relevant notification of payment within the agreed period.

6.3. In the event of failure to observe the above payment terms, we are entitled to charge interest at a rate of 8% above the basic interest rate. This does not affect our right to claim further damages, particularly in the event of demonstrably higher interest rates.

6.4. Irrespective of any other payment agreements, all our outstanding claims become due for immediate payment if circumstances occur in the person of the purchaser which give grounds to assume that the payment agreements made cannot be observed (for example insolvency, application for bankruptcy proceedings etc.). In this event, we are also entitled to make delivery of further goods subject to the provision of the appropriate securities and/or advance payment.

6.5. The claiming of any rights of retention and/or reconciliation of claims against us is excluded, unless such claims are undisputed and/or have been established in law.

7. Delivery reservations:

7.1. All delivery commitments on our part, unless specifically agreed otherwise in writing, are subject to correct and timely delivery of goods to us.

7.2. If delivery cannot be made for reasons which are the responsibility of our suppliers, both we and the purchaser may withdraw from the contract, if the agreed delivery date has been, or in all probability will be, exceeded by three months.

7.3. We reserve the right at all times to make part-deliveries. In this case, no additional costs will be charged to the purchaser.

7.4. We also reserve the right to make the normal, accepted over- or under-deliveries of up to 10% of the quantity ordered.

8. Delivery schedules

8.1. Goods will only be supplied to fixed delivery schedules if these have been confirmed in advance in writing.

8.2. If we fail to meet agreed delivery schedules and/or times, the purchaser is first obliged to grant us, in writing, an appropriate supplementary period to make delivery. This supplementary period should be not less than 4 weeks. If we also fail to meet this delivery period, the purchaser is entitled to with draw from the contract.

8.3. In the event of force majeure and/or unforeseeable and extraordinary circumstances and/or other events beyond our control, even if they occur to our suppliers, any delivery date agreed by us is extended until the problems mentioned above are rectified. If this time cannot be forecast, and especially if such problems are expected to last for more than 3 months, both we and the purchaser are entitled to withdraw from the contract. In this case, claims for compensation for damages by either party are excluded. We undertake to notify the purchaser immediately if we become aware of any of the above circumstances.

8.4. If the observation of a particular delivery date is subject to our being provided with certain information and/or plans, approval declarations etc. by the purchaser, the agreed delivery time begins only from the time when the complete written information from the purchaser has been made available to us.

8.5. If delivery is postponed at the request of the purchaser beyond the contractually agreed delivery date, we are entitled, beginning 10 working days at the earliest from notification that the goods are ready for delivery, to charge the purchaser storage costs of 0.5% of the invoice amount for every month or part of a month, up to a maximum of 5% of the total invoice amount.

8.6. Return deliveries that have not been confirmed in advance by us, are made at the sole risk of the purchaser.

9. Call-off orders:

If the purchaser places a call-off order with us, and if no separate written agreements are made with respect to the call-off dates, the purchaser is obliged to notify us of the call-off dates in such a way that we have at least 14 working days between receipt of the call-off notification and delivery, and the last delivery is made 90 days after our order confirmation.

10. Size and weight information:

All information on diameter, weight, technical design, manufacture and extent of the goods to be delivered by us are subject to the reservation of variance within the normal, permitted tolerances.

We also reserve the right to make technical changes at any time in the interests of technical improvement. Colour variations and/or variances in the outer properties of goods delivered by us, which do not however impair the quality or technical features, do not constitute grounds for guarantee claims by the purchaser.

11. Transfer of risk:

11.1. Place of fulfilment for our delivery obligations is the delivery warehouse from which the goods are dispatched to the purchaser, and in the event of delivery ex-works, the works from which the deliveries are made.

11.2. The risk of the accidental damage and/or loss of the goods is transferred to the purchaser as soon as the goods are handed over to the person carrying out the delivery and/or have left our premises or the manufacturer's works for the purposes of delivery.

11.3. If the goods ordered are made ready by us for delivery, and/or delivery and/or call-off is delayed for reasons beyond our control, the risk is transferred to the purchaser on his receipt of notification that the goods are ready for delivery.

11.4. We are entitled, although not obligated, to take out separate insurance against the risks associated with transport, on behalf of and on the account of the purchaser.

12. Guarantee:

12.1. Guarantee claims by the purchaser first require that the goods delivered are checked immediately to ensure they are in order, that any obvious faults are notified to us immediately in writing, and that any concealed faults are notified to us as soon as they are detected.

12.2. If the fault is our responsibility, we are entitled, at our own discretion, to either rectify the fault or provide a replacement delivery.

12.3. If we are not prepared or not in a position to rectify the fault or provide a replacement delivery, or if such rectification is delayed beyond a reasonable time for reasons which are our responsibility, or if rectification/replacement proves unsuccessful for any reason, the purchaser is entitled, at his discretion, either to withdraw from the contract or require an appropriate reduction in the purchase price.

12.4. Unless specified otherwise below, any further claims by the purchaser, on whatever legal grounds, are excluded. We are consequently not liable for damages not sustained to the actual goods delivered; we are in particular not liable for loss of profits or other financial damages sustained by the purchaser.

12.5. The above limitation of liability does not apply if the damage is caused by deliberate or gross negligence. Nor does it apply if the purchaser claims compensation for damages due to non-fulfilment because of the lack of an assured property.

If we infringe our contractual obligations due to negligence, our liability for material and personal damages is limited to the coverage amount of our product liability insurance. The purchaser may inspect this insurance policy at his request.

12.6. The guarantee period is in accordance with legal requirements.

13. Compensation for damages/liability:

13.1. Liability for damages on our part, on whatever legal grounds, is excluded in cases of only simple negligence. This restriction does not apply if the damage occurs in or as a result of the fulfilment of any of our principal contractual obligations.

13.2. The amount of compensation for damages is restricted to instances of damage typical in such contracts and which might reasonably have been foreseen by us. Liability for atypical and/or unforeseeable damages, on whatever legal grounds, is excluded.

Our liability, on whatever legal grounds, is further restricted to 30% of the goods value invoiced, provided that the damage was caused by an occurrence which can typically result from business of the type in question.

13.3. The stipulations of Points 13.1 and 13.2 do not apply to claims under § 1.4 of product liability laws. The same applies for initial inability or culpable impossibility.

14. Cable drums:

14.1. If cable drums are delivered which were supplied by Kabeltrommel GmbH & Co. KG based in Cologne (hereinafter referred to as "KTG"), the delivery of these cable drums supplied by KTG (hereinafter referred to as KTG drums) is at all times subject to KTG's "Terms and Conditions of the Provision of Cable Drums". KTG drums are recognisable by the KTG emblem affixed to them. Moreover, the delivery of KTG drums is indicated in the order confirmation

and in the delivery note. When KTG drums are delivered by Klaus Faber AG, KTG offers the purchaser of KTG drums a contract subject to KTG's "Terms and Conditions of the Provision of Cable Drums". By accepting the KTG drum, the purchaser accepts the aforementioned offer of concluding a contract with KTG. The KTG "Terms and Conditions of the Provision of Cable Drums" are available for inspection on the premises of Klaus Faber AG and will be supplied by Klaus Faber AG or KTG, Schanzenstr. 6-20, 51063 Cologne-Mülheim, upon request. We expressly point out that in the event of delivery of KTG drums, these remain the property of KTG and Klaus Faber AG supplies these KTG drums on behalf and on the instructions of KTG. With regard to these KTG drums, KTG makes a rental charge (drum rental), which is to be borne by the purchaser (party receiving the KTG drums), should the relevant drums not be returned within the appointed time. The purchaser undertakes to Klaus Faber AG and by way of contract in favour of third parties also to KTG that it will only supply KTG drums to third parties exclusively at KTG's "Terms and Conditions of the Provision of Cable Drums" (with no modifications whatsoever).

14.2. Unless agreed otherwise, all cable drums not supplied by the firm of Kabeltrommel GmbH & Co. KG, are supplied under the following conditions, and where these do not apply, under the conditions of the firm of Kabeltrommel GmbH & Co. KG, as is normal commercial practice. Drums which do not become the property of the purchaser are supplied under the following conditions:

a) During the first 12 months following delivery, or notification of readiness for delivery, the drums are left with the purchaser free of charge.

b) From the 13th to the 17th month inclusive, the purchaser will be charged 15% of the deposit value of the drums per month.

c) If the purchaser retains the drums beyond the 17th month, the full deposit value will be charged, and the drums then become the property of the purchaser on settlement of the relevant invoice. These charges are subject to value-added tax at the prevailing rate.

d) The charge to be paid by the purchaser within the period from the 13th to the 17th month is cancelled from the time that the purchaser requests collection of the drums in writing, stating the cable drum No. Up to the time of collection, and at the latest up to 3 months after receipt of the collection request, the purchaser remains obliged to store the cable drums with the same care as if they were his own property.

e) In the event of insolvency, liquidation, closure of the company etc. of the purchaser, Klaus Faber AG shall be entitled to charge a security for the deposit value.

14.3. In case of the return of drums not belonging to us or to Kabeltrommel GmbH & Co. KG, we are liable only for the care that we would apply to our own affairs.

14.4. The return of empty cable drums will be handled by us and at our cost. If the purchaser returns a cable drum to us without our prior agreement, he acts at his own risk and cost.

14.5. On collection, the purchaser undertakes to provide the necessary loading assistance and to pay any such costs incurred. The purchaser is further obliged to insure the cable drums against the normal risks and with all due businesslike care until the end of the period defined in Point 14.2 d).

14.6. Irrespective of the above conditions, we expressly reserve the right to supply non-returnable cable drums. If non-returnable cable drums are supplied, the purchaser will be notified accordingly, and at the latest by the time of delivery. Unless otherwise agreed, non-returnable cable drums become the property of the purchaser on delivery.

15. Miscellaneous:

15.1. This contract is subject exclusively to the law of the Federal Republic of Germany. In case of international orders, the application of the stipulations of the uniform law on the international purchase of movable goods is expressly excluded.

15.2. Seat of adjudication is, at our discretion, either Saarbrücken or the court responsible for the purchaser's head offices, if the purchaser is a businessman, legal person under public law or special asset under public law or has no general seat of adjudication within Germany.

15.3. If any of the above stipulations are or become invalid, this shall not affect the validity of the remaining stipulations. In this case, and instead of the invalid stipulations, those legal stipulations shall apply which most closely approximate the commercial intent of the initial stipulation.

These terms and conditions of business replace all earlier versions.

16. Area of application for consumers:

If the purchaser is not a contractor, the above conditions apply accordingly, with the exception of the binding clause on prices quoted by us. In the latter case, we will be bound by the prices quoted (before the metal surcharge) for a period of 4 months. After the end of this period, our relevant list prices apply accordingly, unless scheduled delivery within the 4-month period could not be made for reasons that are our responsibility. The interest rate as defined in Point 6.3 and late payment interest for consumers in general is 5% above the basic interest rate.

In addition, the terms and conditions of delivery and payment published in the Internet apply at all times.

Date: May 2009

In addition, the terms and conditions of delivery and payment with the revision status published in the Internet (www. faberkabel.de) apply at all times.

Klaus Faber AG
Management & Sales
Lebacher Str. 152-156
66113 Saarbrücken
Phone: +49 681 9711-0
Fax: +49 681 9711-289
info@faberkabel.de
www.faberkabel.de

Klaus Faber AG
Distribution Centre
Hedemünden
Kirchweg 12-14
34346 Hann.Münden

Klaus Faber AG
Export & Logistic Centre
Fichtenau
Gärtnerstr. 1
74579 Fichtenau