



Anwendung

als Energiekabel in Kraftwerken, Industrie- und Schaltanlagen, in Ortsnetzen und für EVU-Bedarf, vorzugsweise im Erdreich, sowie Innenräumen, Kabelkanälen, im Freien und im Wasser.

Besonderheiten

- 0,6/1 kV Nennspannung, 4 kV Prüfspannung
- beständig gegen UV-Strahlung
- keine Erfordernis für Endverschlüsse bei Verlegung in trockenen Räumen
- LBS-frei/silikonfrei (bei Produktion)
- NYY-O ohne GNGE

Hinweise

- RoHS-konform
- konform zur 2006/95/EG-Richtlinie ("Niederspannungsrichtlinie") CE
- mit blauem Außenmantel für eigensichere Anlagen sowie als NAYY, mit Aluminiumleiter, auf Anfrage lieferbar
- Sonderausführungen, andere Abmessungen, Querschnitte, Ader- und Mantelfarben fertigen wir auf Anfrage

Aufbau & Technische Daten	
Leiter Werkstoff	Cu-Leiter blank
Leiterklasse	nach DIN VDE 0295 Klasse 1 oder 2 bzw. IEC 60228 class 1 oder 2
Aderisolationswerkstoff	PVC
Aderkennung	NYY-J: mit GNGE; mehradrig n. VDE 0207 Teil 5, bis 5 Adern n. VDE 0293-308 farbige Adern, ab 7 Adern n. DIN 0293 SW Adern mit WS Ziffern NYY-O: ohne GNGE; mehradrig n. VDE 0207 Teil 5, bis 5 Adern n. VDE 0293-308 farbige Adern, ab 7 Adern n. DIN 0293 SW Adern mit WS Ziffern
Verseilung	mehradrig in Lagen verseilt
Innenmantelwerkstoff	Füllmantel
Außenmantelwerkstoff	PVC
Mantelfarbe	schwarz
Nennspannung	Uo/U: 0,6/1 kV
Prüfspannung	4 kV
Leiterwiderstand	bei +20 °C nach DIN VDE 0295 Klasse 1 oder 2 bzw. IEC 60228 class 1 oder 2
Strombelastbarkeit	gem. DIN VDE, siehe Techn. Anhang
kleinster Biegeradius fest	einadrig : 15 x d ; mehradrig: 12 x d
Betriebstemp. fest min/max	-40 °C / +70 °C
Betriebstemp. bew. min/max	- 5 °C / +50 °C
Temperatur am Leiter max.	+ 70 °C im Betrieb; +160 °C im Kurzschlußfall
Brandverhalten	nach VDE 0472-804-B und IEC 60332-1
Standard	nach DIN VDE 0271 und IEC 60502
Approbation	VDE

Application

power cable for use in generating plants, industrial facilities, switching stations, in local networks and power supply industry. Use predominantly for laying underground, indoor- and outdoor use, cable channels and in water.

Special features

- 0,6/1 kV operating voltage, 4 kV testing voltage
- UV-resistant
- no hood termination necessary when laying in dry rooms
- free from lacquer damaging substances and silicone (during production)
- NYY-O without GNGE

Remarks

- conform to RoHS
- conform to 2006/95/EC-Guideline CE
- with blue outer sheath for intrinsically safe facilities and also as NAYY (with aluminium conductors) available upon request
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

Structure & Specifications	
conductor material	bare copper conductor
conductor class	acc. to DIN VDE 0295 class 1 or 2 resp. IEC 60228 class 1 or 2
core insulation	PVC
core identification	NYY-J: with GNGE; multi core acc. to VDE 0207 part 5, up to 5 cores acc. VDE 0293-308 coloured cores, from 7 cores black cores with white numerals NYY-O: without GNGE; multi core acc. to VDE 0207 part 5 up to 5 cores acc. VDE 0293-308 coloured cores, from 7 cores black cores with white numerals
stranding	multi cores stranded in layers
inner sheath material	filler sheath
outer sheath	PVC
sheath colour	black
rated voltage	Uo/U: 0,6/1 kV
testing voltage	4 kV
conductor resistance	at +20 °C acc. to DIN VDE 0295 class 1 or 2 resp. IEC 60228 class 1 or 2
current carrying capacity	acc. to DIN VDE, see Technical Guidelines
min. bending radius fixed	single core: 15 x d ; multi core: 12 x d
operat. temp. fixed min/max	-40 °C / +70 °C
operat. temp. moved min/max	- 5 °C / +50 °C
temp. at conductor	+ 70 °C in operation; +160 °C in case of short-circuit
burning behavior	acc. to VDE 0472-804-B and IEC 60332-1
standard	acc. to DIN VDE 0271 and IEC 60502
approvals	VDE

Abmessung n x mm ² dimension n x mm ²	Außen-Ø mm outer Ø mm	Cu-Zahl kg/km copper weight kg/km	Gewicht kg/km weight kg/km
1 X 4re	9,0	38,0	130,0
1 X 6re	10,0	58,0	136,0
1 X 10re	11,0	96,0	182,0
1 X 16re	12,0	154,0	252,0
1 X 25rm	13,0	240,0	365,0
1 X 35rm	14,0	336,0	480,0
1 X 50rm	16,0	480,0	620,0
1 X 70rm	17,0	672,0	840,0
1 X 95rm	19,0	912,0	1.100,0
1 X 120rm	21,0	1.152,0	1.320,0
1 X 150rm	23,0	1.440,0	1.610,0
1 X 185rm	25,0	1.776,0	1.980,0
1 X 240rm	28,0	2.304,0	2.550,0
1 X 300rm	30,0	2.880,0	3.200,0
1 X 400rm	34,0	3.840,0	4.000,0
1 X 500rm	38,0	4.800,0	5.100,0
3 X 1,5re	12,0	43,0	225,0
3 X 2,5re	13,0	72,0	275,0
3 X 4re	14,0	115,0	375,0
3 X 6re	15,0	173,0	480,0
3 X 10re	18,0	288,0	675,0
3 X 16re	19,0	461,0	880,0
3 X 25rm	24,0	720,0	1.390,0
3 X 35sm	25,0	1.008,0	1.600,0
3 X 50sm	28,0	1.440,0	2.000,0
3 X 70sm	31,0	2.016,0	2.700,0
3 X 95sm	35,0	2.736,0	3.600,0
3 X 120sm	39,0	3.456,0	4.400,0
3 X 150sm	44,0	4.320,0	4.910,0
3 X 185sm	49,0	5.328,0	6.520,0
3 X 240sm	53,0	6.912,0	8.290,0
3 X 25rm/16re	25,0	874,0	1.575,0
3 X 35sm/16re	26,0	1.162,0	1.700,0
3 X 50sm/25rm	30,0	1.680,0	2.325,0
3 X 70sm/35sm	35,0	2.352,0	2.900,0
3 X 95sm/50sm	37,0	3.216,0	3.900,0
3 X 120sm/70sm	42,0	4.128,0	4.900,0
3 X 150sm/70sm	47,0	4.992,0	5.800,0
3 X 185sm/95sm	51,0	6.240,0	7.400,0
3 X 240sm/120sm	59,0	8.064,0	9.700,0
3 X 300sm/150sm	66,0	10.080,0	12.000,0
4 X 1,5re	13,0	58,0	220,0
4 X 2,5re	14,0	96,0	300,0
4 X 4re	16,0	154,0	410,0
4 X 6re	17,0	230,0	520,0
4 X 10re	19,0	384,0	720,0
4 X 16re	22,0	614,0	1.050,0
4 X 25rm	26,0	960,0	1.650,0
4 X 35sm	28,0	1.344,0	1.860,0
4 X 50sm	31,0	1.920,0	2.500,0

Abmessung n x mm ² dimension n x mm ²	Außen-Ø mm outer Ø mm	Cu-Zahl kg/km copper weight kg/km	Gewicht kg/km weight kg/km
4 X 70sm	35,0	2.688,0	3.300,0
4 X 95sm	38,0	3.648,0	4.500,0
4 X 120sm	42,0	4.608,0	5.500,0
4 X 150sm	47,0	5.760,0	6.880,0
4 X 185sm	52,0	7.104,0	8.460,0
4 X 240sm	59,0	9.216,0	11.000,0
5 X 1,5re	13,0	72,0	280,0
5 X 2,5re	15,0	120,0	360,0
5 X 4re	16,0	192,0	490,0
5 X 6re	18,0	288,0	650,0
5 X 10re	20,0	480,0	870,0
5 X 16re	23,0	768,0	1.255,0
5 X 25rm	30,0	1.200,0	1.980,0
5 X 35rm	34,0	1.680,0	2.650,0
7 X 1,5re	14,0	101,0	370,0
10 X 1,5re	17,0	144,0	530,0
12 X 1,5re	18,0	173,0	580,0
14 X 1,5re	19,0	202,0	620,0
16 X 1,5re	20,0	230,0	690,0
19 X 1,5re	21,0	274,0	770,0
21 X 1,5re	22,0	302,0	850,0
24 X 1,5re	23,0	346,0	900,0
30 X 1,5re	24,0	432,0	1.030,0
40 X 1,5re	28,0	576,0	1.260,0
61 X 1,5re	32,0	878,0	1.760,0
7 X 2,5re	16,0	168,0	460,0
10 X 2,5re	19,0	240,0	650,0
12 X 2,5re	20,0	288,0	730,0
14 X 2,5re	21,0	336,0	820,0
16 X 2,5re	22,0	384,0	930,0
19 X 2,5re	23,0	456,0	1.000,0
21 X 2,5re	24,0	504,0	1.050,0
24 X 2,5re	26,0	576,0	1.120,0
30 X 2,5re	28,0	720,0	1.300,0
40 X 2,5re	30,0	960,0	1.700,0
52 X 2,5re	36,0	1.248,0	2.300,0
61 X 2,5re	38,0	1.464,0	2.600,0
7 X 4re	19,0	269,0	620,0
7 X 6re	21,0	403,0	860,0