N2XCH



Application

Halogen-free power cables with enhanced characteristics in case of fire are used for applications where harm to human life and damage to property must be prevented in the event of fire, e.g. in industrial installations, communal establishments, hotels, airports, underground stations, railway stations, hospitals department stores, banks, schools theaters, multi-storey buildings, process control centres etc. Suitable for fixed installation in dry, damp or wet environments, in, above, on and beneath plaster as well as in masonary walls and in concrete. These cables are suitable for outdoor applications and in underground by using in conduits or tubes. The concentric conductor can be used as PE- PEN conductor or as screen.

Standards

DIN VDE 0276-604:2008-02,
DIN EN 50575 VDE 0482-575:2017-02,
HD 604 S1

CE = The product is conformed with the EC Low-Voltage Directive 2014/35/EU.

Construction

Inner Conductor	bare copper conductor to DIN VDE 0295 cl. 1 or cl. 2, HD 383
Core Insulation	halogen-free, cross-linked polyethylene compound 2XI1, to HD 604 S1
Core Color	acc. to DIN VDE 0293-308 and HD 186
Stranding Elements	cores stranded in layers (for multi-corebr>cables)
Shielding	concentric conductor of plain Cu wires
Inner Sheath Material	overall filled inner sheath, covered by filling compound or wrapped tape
Overall Shielding	konzentrischer Leiter aus blanken Cu-Drähten mit Kupferbandumwicklung
Outer Insulation Material	halogen-free polymer HM4
Constant Against	UV-Strahlung

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Energiekabel 1kV
Power Cables 1kV

Technical Data

Nominal Voltage	U_0/U: 600 /1000 V
Nominal Volatage DC	U_0/U: 900 /1800 V
Test Voltage	4000 V
Bending Radius fixed (xD)	0
Operating Temperature solid	-20 °C bis 90 °C
Operating Temperature moving	-5 °C bis 50 °C
Short Circuit Temperature	250 °C
Short Circuit Duration	5 sek.
Fire Classes	auf Anfrage

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Power Cables 1kV

Prod. Nr. Prod. Nr.	Option Option	Dimensions Dimensions	Color Color	Weight (kg/km) approx. Weight (kg/km) approx.	Outer-Diameter (mm) approx. Outer-Diameter (mm) approx.
02203078		1 x 50 rm	black - black	740,0	18,0
02203082		1 x 150 rm	black - black	1.800,0	25,0
02203084		1 x 185 rm	black - black	2.200,0	26,0
02203086		1 x 240 rm	black - black	2.750,0	28,0
02203088		1 x 300 rm	black - black	3.300,0	33,0
02203089		1 x 400 rm	black - black	4.165,0	35,0
02203091		2 x 1,5re/1,5	black - black	260,0	13,0
02203092		2 x 2,5re/2,5	black - black	270,0	13,0
02203093		2 x 4re/4	black - black	320,0	14,0
10235040		3 x 1,5re/1,5	black - black	240,0	13,0
10235001		3 x 1,5re/1,5	black - black	240,0	13,0
10235041		3 x 2,5re/2,5	black - black	290,0	14,0
10235042		3 x 4re/4	black - black	380,0	15,0
10235043		3 x 6re/6	black - black	470,0	16,0
10235044		3 x 10re/10	black - black	640,0	18,0
10235045		3 x 16re/16	black - black	670,0	20,0
10235038	RM	3 x 16re/16	black - black	670,0	20,0
10235006		3 x 16re/16	black - black	670,0	20,0
10235046		3 x 25rm/16	black - black	1.600,0	27,0
10235047		3 x 35rm/16	black - black	1.750,0	24,0
10235048	RM	3 x 50rm/25	black - black	2.250,0	27,0
10235049		3 x 70sm/35	black - black	3.050,0	31,0
10235050		3 x 95sm/50	black - black	4.100,0	34,0
10235051		3 x 120sm/70	black - black	5.050,0	37,0

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10235052		3 x 150sm/70	black - black	5.700,0	41,0
10235053		3 x 185sm/95	black - black	7.550,0	45,0
10235054		3 x 240sm/120	black - black	9.900,0	51,0
10235055		4 x 1,5re/1,5	black - black	260,0	14,0
10235056		4 x 2,5re/2,5	black - black	330,0	15,0
10235057		4 x 4re/4	black - black	440,0	16,0
02203057		4 x 4re/16	black - black	542,0	16,3
10235058		4 x 6re/6	black - black	550,0	17,0
10235059		4 x 10re/10	black - black	760,0	19,0
10235060		4 x 16re/16	black - black	1.130,0	22,0
02203059		4 x 16rm/16	black - black	1.130,0	22,0
10235061		4 x 25rm/16	black - black	1.700,0	28,0
10235062		4 x 35sm/16	black - black	1.590,0	31,0
10235063		4 x 50sm/25	black - black	2.600,0	34,0
10235064		4 x 70sm/35	black - black	3.550,0	40,0
10235065		4 x 95sm/50	black - black	4.800,0	45,0
10235066		4 x 120sm/70	black - black	6.500,0	51,0
10235067		4 x 150sm/70	black - black	7.950,0	56,0
10235068		4 x 185sm/95	black - black	9.850,0	63,0
10235069		4 x 240sm/120	black - black	12.900,0	68,0
02203066		5 x 1,5re/1,5	black - black	440,0	13,0
10235077		5 x 2,5re/2,5	black - black	480,0	14,0
02203067		5 x 4re/4	black - black	560,0	16,0
02203065		5 x 6re/16	black - black	860,0	19,3

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02203072		5 x 10re/16	black - black	1.200,0	23,7
02203073		5 x 16re/16	black - black	1.475,0	26,0
10235070		7 x 1,5re/2,5	black - black	360,0	15,0
10235072		7 x 2,5re/2,5	black - black	450,0	17,0
10235075		7 x 2,5re/16	black - black	572,0	17,0
10235074		7 x 4re/4	black - black	650,0	19,0
02203054		10 x 1,5re/2,5	black - black	420,0	19,0
02203042		10 x 2,5re/4	black - black	560,0	19,0
10235071		12 x 1,5re/2,5	black - black	530,0	19,0
10235073		12 x 2,5re/4	black - black	700,0	21,0
02203033		14 x 1,5re/2,5	black - black	580,0	20,0
02203053		16 x 1,5re/2,5	black - black	686,0	20,0
02203062		16 x 2,5re/6	black - black	805,0	20,9
02203069		19 x 1,5re/16	black - black	900,0	23,0
02203043		19 x 2,5re/6	black - black	850,0	22,0
02203060		24 x 1,5re/6	black - black	950,0	25,0
02203075		24 x 1,5re/16	black - black	1.050,0	25,0
02203029		30 x 1,5re/6	black - black	1.020,0	25,0

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