(N)HXH-FE 180/E 90

Security cable, halogen-free, 0.6/1 kV







(N)HXH-FE 180/E 90

CE

Technical data

- Halogen free security cable adapted to DIN VDE 0266
- Temperature range during installation -5°C to +50°C fixed installation -30°C to +90°C
- Permissible **operating temperature** at conductor +90°C
- Nominal voltage $U_0/U 0.6/1 \text{ kV}$
- Test voltage 4000 V
- Minimum bending radius single core 15x outer Ø multi core 12x outer Ø
- Caloric load values see "Technical Information"

Cable structure

- Bare copper conductor, single wire or multi wire acc. to DIN VDE 0295 cl.1 or cl.2 / IEC 60228 cl.1 or cl.2
- Core insulation of polymer
- Core identification
 acc. to DIN VDE 0293-308
 1 core: black
 ≤ 5 cores: coloured
 ≥ 6 cores: black with continuous
 white numbering
- GN-YE conductor, 3 cores and above
- · Cores stranded in layer
- Overall core covering
- Core wrapping with glass-fibre tape as flame-protection
- Outer sheath of polyolefin
- Sheath colour: orange

Tests

- Flame test acc. to DIN VDE 0482-332-3-24 / DIN EN 60332-3-24 / IEC 60332-3-24
- Corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- Smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2

Properties

- · Halogen-free
- Flame retardant
- Self-extinguished
- No flame propagation
- Low smoke density
- FE 180: Insulation integrity for 180 minutes. Tests acc. to DIN VDE 0472-814 / IEC 60331
- E 90: Functionality of electrical cable systems for min. 90 minutes. This fulfils the demands of technical guide lines for fire protection Test method acc. to DIN 4102-12 The functionality for 90 minutes assures the functional performance of water-pressure-rising stations for the supply to avoid smoke and heat in safety-stairs and inner rooms, ladder shafts and engine rooms for fire brigade lifts, emergency lifts for sickbeds in hospitals and the fire brigade lifts.

Note

- re = round conductor, single wire rm = round conductor, multi wire
- The conductor is metrically constructed (mm²). The AWG designation is approximate and purely informative.

Application

Wherever damage to people and material must be prevented in the event of a fire due to a high concentration of material assets. Suitable for permanent installation in dry, damp and wet rooms above, on, in and under plaster, as well as in masonry and concrete. They are also suitable for laying outdoors and in the ground when laying in pipes. Laying in the pipe is permitted if precautions have been taken to prevent water from building up in the pipe.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg/km	Weight app. kg / km	AWG-No.
53180	1 x 16 rm	11,0	154,0	255,0	6
53181	1 x 25 rm	12,5	240,0	375,0	4
53182	1 x 35 rm	13,5	336,0	475,0	2
53183	1 x 50 rm	15,0	480,0	625,0	1
53184	1 x 70 rm	16,5	672,0	855,0	2/0
53185	1 x 95 rm	18.0	912.0	1140.0	3/0

Part no.	No.cores x cross-sec. mm ²		Outer Ø app. mm	Cop. weight kg/km	Weight app. kg/km	AWG-No.	
53186	1 x 120	rm	20,5	1152,0	1410,0	4/0	
53187	1 x 150	rm	22,5	1440,0	1730,0	300 kcmil	
53188	1 x 185	rm	24,5	1776,0	2140,0	350 kcmil	
53189	1 x 240	rm	27,0	2304,0	2700,0	500 kcmil	
53190	1 x 300	rm	30,0	2880,0	3420,0	600 kcmil	
53191	1 x 400	rm	33,5	3840,0	4310,0	750 kcmil	

Continuation ▶



13.10.2020 / Dimensions and specifications may be changed without prior notice.

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Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg/km	Weight app. kg/km	AWG-No.
59056	2 x 1,5 re	12,9	29,0	184,0	16
53000	3 x 1,5 re	14,0	43,0	280,0	16
53001	3 x 2,5 re	15,0	72,0	330,0	14
53002	3 x 4 re	16,0	115,0	400,0	12
53003	3 x 6 re	17,0	173,0	480,0	10
53004	3 x 10 re	19,0	288,0	650,0	8
53005	3 x 16 re	21,0	461,0	850,0	6
52990	3 x 25 rm	25,0	720,0	1300,0	4
52991	3 x 35 rm	28,0	1008,0	1700,0	2
52992	3 x 35 / 16 rm	28,0	1162,0	1850,0	2
52993	3 x 50 / 25 rm	32,0	1680,0	2500,0	1
52994	3 x 70 / 35 rm	36,0	2352,0	3350,0	2/0
52995	3 x 95 / 50 rm	42,0	3216,0	4500,0	3/0
52996	3 x 120 / 70 rm	45,0	4128,0	5600,0	4/0
52997	3 x 150 / 70 rm	49,0	4992,0	6700,0	300 kcmil
52998	3 x 185 / 95 rm	55,0	6240,0	8350,0	350 kcmil
52999	3 x 240 / 120 rm	63,0	8064,0	10000,0	500 kcmil
53006	4 x 1,5 re	15,0	58,0	325,0	16
53007	4 x 2,5 re	16,0	96,0	385,0	14
53008	4 x 4 re	17,0	154,0	470,0	12
53009	4 x 6 re	18,0	230,0	580,0	10
53010	4 x 10 re	20,0	384,0	790,0	8
53011	4 x 16 re	22,0	614,0	1100,0	6

Part no.	No.cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg/km	Weight app. kg / km	AWG-No.
53012	4 x 25 rm	27,0	960,0	1650,0	4
53013	4 x 35 rm	30,0	1344,0	2150,0	2
53014	4 x 50 rm	34,0	1920,0	2800,0	1
53030	4 x 70 rm	39,0	2688,0	3800,0	2/0
53031	4 x 95 rm	44,0	3648,0	5050,0	3/0
53070	4 x 120 rm	47,0	4608,0	6150,0	4/0
53390	4 x 150 rm	51,2	5760,0	7662,0	300 kcmil
53015	5 x 1,5 re	16,0	72,0	375,0	16
53016	5 x 2,5 re	17,0	120,0	445,0	14
53017	5 x 4 re	18,0	192,0	560,0	12
53018	5 x 6 re	20,0	288,0	690,0	10
53019	5 x 10 re	22,0	480,0	950,0	8
53020	5 x 16 rm	24,0	768,0	1300,0	6
53021	5 x 25 rm	29,0	1200,0	1980,0	4
53028	5 x 35 rm	33,0	1680,0	2350,0	2
53029	5 x 50 rm	38,0	2400,0	3100,0	1
11018801	5 x 95 rm	47,6	4560,0	6164,0	3/0
53022	7 x 1,5 re	19,0	101,0	560,0	16
53027	7 x 2,5 re	21,0	168,0	650,0	14
53025	10 x 1,5 re	23,0	144,0	750,0	16
53026	10 x 2,5 re	25,0	240,0	910,0	14
53023	12 x 1,5 re	25,0	173,0	850,0	16
53024	12 x 2,5 re	26,0	288,0	1000,0	14
59057	24 x 1,5 re	27,4	346,0	895,0	16

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