

SECURITY CABLES

NHXCH-FE 180/E 90



CE

ELETTROTEK KABEL® NHXCH-FE 180/E 90

Construction:

Conductor:	Solid or stranded red copper conductor Cl. 1 or 2, acc. to IEC 60228 DIN VDE 0259
Insulation:	double core insulation of mica tape and cross-linked polymer type HI1, to DIN VDE 0207 part 23
Colour cores:	acc. to DIN VDE 0293-308, HD 308 S2
Stranding:	cores stranded in layers
Wrapping:	glass-fibre. (also for each single core)
Screen:	red copper wires and one or two copper tape(s) applied helically
Outer sheath:	orange (RAL 2003), polymer compound DIN VDE 0207 part 24, flame retardant

Resistance:



Flame retardant acc. to:
IEC 60332-3
EN 50266-2
DIN VDE 0482 part.266-2



Halogen free acc. to:
EN 50267-2-1
IEC 60754-1
DIN VDE 0482 part.267-2-1



Low corrosiveness combustion gases acc.to:
EN 50267-2,
IEC 60754-2,
DIN VDE 0482 part.267-2



Low smoke emission acc. to:
EN 50268-2
IEC 61034-2
DIN VDE 0482 part. 268-2

Technical data:

Nominal voltage:	0,6/1 kV
Test voltage:	4 kV
Temperature range:	- 30 °C / + 70 °C
Min. bending radius:	12 x d
Radiation resistance:	up to 200x10 ⁶ cJ/kg

Features:


Security cable, 0,6/1 kV, with improved fire characteristics


Insulation integrity under flame propagation to VDE 0472 part 814 IEC 60331


Burning behavior in fire (functionality) of the complete cable system to DIN 4102 part 12 (90 min.)


FE 180: insulation integrity for 180 min. Test to DIN VDE 0472 part.814 IEC 60331

E 90: functionally for 90 min. Test to DIN 4102 part.12

 re: circular solid conductor

 rm: circular stranded conductor

 sm: sector-shaped stranded conductor

 se: sector-shaped solid conductor

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Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
49150GG2031M15	3G1,5/1,5 re	16,9	66	380	16
49150GG2031M25	3G2,5/2,5 re	18	104	430	14
49150GG2031M40	3G4/4 re	19	161	530	12
49150GG2031M60	3G6/6 re	20,1	240	640	10
49150GG2031M61	3G10/10 re	22	408	850	8
49150GG2031M62	3G16/16 rm	24	643	1150	6
49150GG2031M63	3G25/16 rm	28	902	1700	4
49150GG2031M64	3G35/16 rm	30	1190	2150	2
49150GG2031M65	3G50/25 rm	34	1723	2800	1
49150GG2031M66	3G70/35 rm	38	2410	3800	2/0
49150GG2031M67	3G95/50 rm	44	3296	5100	3/0
49150GG2031M68	3G120/70 rm	47	4236	6250	4/0
49150GG2031M69	3G150/70 rm	51	4992	6900	250 MCM
49150GG2031M70	3G185/95 rm	56	6383	8550	350 MCM
49150GG2031M71	3G240/120 rm	65	8242	11150	450 MCM
49150GG2041M15	4G1,5/1,5 re	18	81	435	16
49150GG2041M25	4G2,5/2,5 re	18,9	128	500	14
49150GG2041M40	4G4/4 re	20	200	610	12
49150GG2041M60	4G6/6 re	21	297	740	10
49150GG2041M61	4G10/10 re	23	504	1050	8
49150GG2041M62	4G16/16 re	25	796	1350	6
49150GG2041M63	4G25/16 re	30	1142	1950	4
49150GG2041M64	4G35/16 re	33	1526	2400	2
49150GG2041M65	4G50/25 rm	37	2203	3200	1
49150GG2041M66	4G70/35 rm	42	3082	4300	2/0
49150GG2041M67	4G95/50 rm	47	4208	5750	3/0
49150GG2041M68	4G120/70 rm	51	5388	7100	4/0
49150GG2041M69	4G150/70 rm	56	6540	8550	250 MCM
49150GG2041M70	4G185/95 rm	68	8159	11020	350 MCM
49150GG2041M71	4G240/120 rm	70	10546	14140	450 MCM
49150GG2051M25	5G2,5/2,5 re	-	152	480	14
49150GG0071M15	7G1,5/2,5 re	21	133	520	16
49150GG0071M25	7G2,5/2,5 re	21	200	630	14
49150GG0121M15	12G1,5/2,5 re	27	205	770	16
49150GG0121M25	12G2,5/4 re	28	334	950	14
49150GG0241M15	24G1,5/6 re	37	413	1380	16
49150GG0241M25	24G2,5/10 re	37,5	696	1750	14
49150GG0301M15	30G1,5/6 re	39	499	1360	16
49150GG0301M25	30G2,5/10 re	39,5	840	2080	14

Other dimensions and colours available on request.