

SECURITY CABLES

N2XCH-FE 180/E 90



CE

ELETTROTEK KABEL® N2XCH-FE 180/E 90

Construction:

Conductor:	Solid or stranded red copper conductor Cl. 1 or 2, acc. to IEC 60228 DIN VDE 0259
Insulation:	core insulation with cross-linked polyethylene. type 2X11 to DIN VDE 0276 PART 604. core with double insulation. flame retardant MICA-tapeover conductor.
Colour cores:	acc. to DIN VDE 0293-308, HD 308 S2
Stranding:	cores stranded in layers
Wrapping:	halogen-free filling compound, pressed
Screen:	concentric conductor of corrugated copper wires + copper tape
Outer sheath:	orange (RAL 2003), thermoplastic halogen-free polyolefine, flame retardant, type HM4 to DIN VDE 0276 part 604

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
Highest voltage:	Um 1,2 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

SECURITY CABLES

N2XCH-FE 180/E 90



CE



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. *)
49130GG3030M15	3x1,5/1,5 re	16,5	66	330	16
49130GG3030M25	3x2,5/2,5 re	17,5	104	400	14
49130GG3030M40	3x4/4 re	18,5	161	480	12
49130GG3030M60	3x6/6 re	20	240	600	10
49130GG3030M61	3x10/10 re	22	408	840	8
49130GG3030M62	3x16/16 rm	24,5	643	1130	6
49130GG3030M63	3x25/16 rm	28	902	1560	4
49130GG3030M64	3x35/16 rm	30,5	1190	1960	2
49130GG3030M65	3x50/25 rm	34	1723	2610	1
49130GG3030M66	3x70/35 rm	37,5	2410	3500	2/0
49130GG3030M67	3x95/50 rm	43	3296	4700	3/0
49130GG3030M68	3x120/70 rm	48	4236	5880	4/0
49130GG3030M69	3x150/70 rm	52	4992	7300	250 MCM
49130GG3030M70	3x185/95 rm	57,5	6383	8760	350 MCM
49130GG3030M71	3x240/120 rm	63,5	8242	11280	450 MCM
49130GG3040M15	4x1,5/1,5 re	17,5	81	390	16
49130GG3040M25	4x2,5/2,5 re	19	128	470	14
49130GG3040M40	4x4/4 re	20	200	570	12
49130GG3040M60	4x6/6 re	21,5	297	720	10
49130GG3040M61	4x10/10 rm	24	504	1010	8
49130GG3040M62	4x16/16 rm	26,5	796	1370	6
49130GG3040M63	4x25/16 rm	30,5	1142	1940	4
49130GG3040M64	4x35/16 rm	33	1526	2420	2
49130GG3040M65	4x50/25 rm	37,5	2203	3240	1
49130GG3040M66	4x70/35 rm	41,5	3082	4360	2/0
49130GG3040M67	4x95/50 rm	47,5	4208	5900	3/0
49130GG3040M68	4x120/70 rm	52,5	5388	7340	4/0
49130GG3040M69	4x150/70 rm	57,5	6540	8840	250 MCM
49130GG3040M70	4x185/95 rm	63,5	8159	11020	350 MCM
49130GG3040M71	4x240/120 rm	70	10546	14140	450 MCM
49130GG1070M15	7x1,5/2,5 re	20,5	133	520	16
49130GG1070M25	7x2,5/2,5 re	22	200	630	14
49130GG1120M15	12x1,5/2,5 re	26	205	770	16
49130GG1120M25	12x2,5/2,5 re	28,5	334	950	14
49130GG1240M15	24x1,5/6 re	35	413	1380	16
49130GG1240M25	24x2,5/10 re	37,5	696	1750	14
49130GG1300M15	30x1,5/6 re	37	499	1630	16
49130GG1300M25	30x2,5/10 re	39,5	840	2080	14

Other dimensions and colours available on request.