

## N2XCH-FE 180/E 30



CE



### Construction:

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

### Technical data:

<b>Nominal voltage:</b>	0,6/1 kV
<b>Test voltage:</b>	4 kV
<b>Temperature range:</b>	- 30 °C / + 70 °C
<b>Min. bending radius:</b>	15 x d
<b>Radiation resistance:</b>	up to 200x10 <sup>6</sup> cJ/kg

### Resistance:



**Flame retardant acc. to:**  
DIN VDE 0482 part 332-3  
IEC 60332-3



**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

### 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 (30 min.)

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

E 30: functionally for 30 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 30



CE



Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
49090GG3020M15	2x1,5/1,5 re	13	52	200	16
49090GG3020M25	2x2,5/2,5 re	14	80	250	14
49090GG3020M40	2x4/4 re	15	123	310	12
49090GG3020M60	2x6/6 re	16	182	400	10
49090GG3020M61	2x10/10 re	17,5	312	570	8
49090GG3030M15	3x1,5/1,5 re	13	66	220	16
49090GG3030M25	3x2,5/2,5 re	14	104	270	14
49090GG3030M40	3x4/4 re	15,5	161	360	12
49090GG3030M60	3x6/6 re	16,5	24	470	10
49090GG3030M61	3x10/10 re	18,5	408	680	8
49090GG3030M62	3x16/16 re	21	643	960	6
49090GG3030M63	3x25/16 rm	25,5	902	1390	4
49090GG3030M64	3x35/16 rm	29	1190	1720	4
49090GG3030M65	3x50/25 rm	31,5	1723	2320	1
49090GG3030M66	3x70/35 rm	36,5	2410	3260	2/0
49090GG3030M67	3x95/50 rm	40	3296	4310	3/0
49090GG3030M68	3x120/70 rm	46	4236	5520	4/0
49090GG3030M69	3x150/70 rm	50,5	5100	6620	250 MCM
49090GG3030M70	3x185/95 rm	55	6383	8180	350 MCM
49090GG3030M71	3x240/120 rm	61,5	8242	10620	450 MCM
49090GG3040M15	4x1,5/1,5 re	15	81	260	16
49090GG3040M25	4x2,5/2,5 re	16	128	310	14
49090GG3040M40	4x4/4 re	17	200	420	12
49090GG3040M60	4x6/6 re	18	297	540	10
49090GG3040M61	4x10/10 re	20	504	800	8
49090GG3040M62	4x16/16 re	22,5	796	1150	6
49090GG3040M63	4x25/16 re	28	1142	1670	4
49090GG3040M64	4x35/16 re	30,5	1526	2160	2
49090GG3040M65	4x50/25 re	32	2203	2860	1
49090GG3040M66	4x70/35 re	39,5	3082	3980	2/0
49090GG3040M67	4x95/50 re	43,5	4208	5300	3/0
49090GG3040M68	4x120/70 re	49,5	5388	6740	4/0
49090GG3040M69	4x150/70 re	55,5	6558	8210	250 MCM
49090GG3040M70	4x185/95 re	60	8159	10200	350 MCM
49090GG3040M71	4x240/120 re	68	10546	12900	450 MCM
49090GG1070M15	7x1,5/2,5 re	16,5	133	360	16
49090GG1120M15	30x1,5/6 re	29	499	1070	16

Other dimensions and colours available on request.