

## NHXXH-FE 180/E 30



CE

ELETTROTEK KABEL® NHXXH-FE 180/E 30

### Construction:

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

### 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:**  
IEC 60332-3-24  
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

### 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

## NHXX-FE 180/E 30



CE

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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.)*
49100GGL010M40	1x4 re	7	38	98	12
49100GGL010M60	1x6 re	7,5	58	125	10
49100GGL010M61	1x10	8	96	165	8
49100GGL010M62	1x16	9	154	230	6
49100GGL010M63	1x25	10,5	240	345	4
49100GGL010M64	1x35	11,5	336	450	2
49100GGL010M65	1x50	12	480	590	1
49100GGL010M66	1x70	15	672	800	2/0
49100GGL010M67	1x95	16,5	912	1100	3/0
49100GGL010M68	1x120	18,5	1152	1350	4/0
49100GGL010M69	1x150	20,5	1440	1650	250 MCM
49100GGL010M70	1x185	23	1776	2000	350 MCM
49100GGL010M71	1x240	25,5	2304	2650	450 MCM
49100GGL010M72	1x300	31,8	2880	3200	550 MCM
49100GG3020M25	2x2,5	12,5	48	290	14
49100GG3020M40	2x4	13,5	77	345	12
49100GG3020M60	2x6	14,5	115	410	10
49100GG3020M61	2x10	16	192	540	8
49100GG3020M62	2x16	18	307	720	6
49100GG3020M63	2x25	21	480	1100	4
49100GG3020M64	2x35	24	672	1120	2
49100GG2031M15	3G1,5	12,5	43	280	16
49100GG2031M25	3G2,5	13,5	72	330	14
49100GG2031M40	3G4	14,5	115	400	12
49100GG2031M60	3G6	15,5	173	480	10
49100GG2031M61	3G10	17	288	650	8
49100GG2031M62	3G16	19	461	850	6
49100GG2031M63	3G25	22,5	720	1300	4
49100GG2031M64	3G35	24,5	1080	1700	2
49100GG2031M65	3G50	27,5	1440	2200	1
49100GG2031M66	3G70 rm	32	2016	3000	2/0
49100GG2031M67	3G95 rm	35,5	2736	4000	3/0
49100GG2031M68	3G120 rm	39,5	3456	4850	4/0
49100GG2031M69	3G150 rm	44	4320	5950	250 MCM
49100GG2031M67	3G185 rm	49,5	5328	7450	350 MCM
49100GG2031M71	3G240 rm	60	6910	8600	450 MCM
49100GG2041M15	4G1,5 re	13,5	58	325	16
49100GG2041M25	4G2,5 re	14	96	385	14
49100GG2041M40	4G4 re	15,5	154	470	12
49100GG2041M60	4G6 re	16,5	230	580	10
49100GG2041M61	4G10 re	18,5	384	790	8
49100GG2041M62	4G16 rm	20,5	614	1100	6
49100GG2041M63	4G25 rm	24,5	960	1650	4
49100GG2041M64	4G35 rm	27	1344	2150	2
49100GG2041M65	4G50 rm	30	1920	2800	1
49100GG2041M66	4G70 rm	35	2688	3800	2/0
49100GG2041M67	4G95 rm	39,5	3648	5050	3/0
49100GG2041M68	4G120 rm	43,5	4608	6150	4/0
49100GG2041M69	4G150 rm	49	5760	7650	250 MCM
49100GG2051M15	5G1,5 re	14	72	375	16
49100GG2051M25	5G2,5 re	15	120	445	14
49100GG2051M40	5G4 re	16,5	192	560	12
49100GG2051M60	5G6 re	18	288	690	10
49100GG2051M61	5G10 re	20	480	950	8
49100GG2051M62	5G16 rm	22,5	768	1300	6
49100GG2051M63	5G25 rm	26,5	1200	1980	4
49100GG2051M64	5G35 rm	36	1680	2600	2
49100GG0071M15	7G1,5 re	15	101	365	16
49100GG0071M25	7G2,5 re	16,5	168	540	14
49100GG0101M15	10G1,5 re	18	144	580	16
49100GG0101M25	10G2,5 re	20	240	710	14
49100GG0121M15	12G1,5 re	19	173	640	16
49100GG0121M25	12G2,5 re	20,5	288	790	14

Other dimensions and colours available on request.