

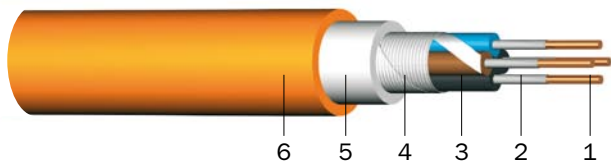
NHXH FE180/E30, (N)HXH FE180/E30

Power cables with insulation integrity FE180 and functional integrity E30

Standard: DIN VDE 0266 (NHXH), resp. adapted to DIN VDE 0266 ((N)HXH)








Usage:

For fixed installation in interior premises and in the open air and for direct burial in cable ducts and conduit. Since they are free from halogens and exhibit enhanced fire performance, these cables are used in those applications where in the event of fire, the negative effects on concentrations of people and valuable material goods must be minimised.



Construction:

- 1 Copper conductor, round solid (RE), round stranded (RM) resp. sector-shaped stranded (SM)
- 2 Flame protection by conductor taping (mica tape, only for NHXH) or by a ceramising halogen-free polymer compound
- 3 Core insulation (halogen-free polymer compound, cross linked)
- 4 Taping (halogen-free glass fabric tape)
- 5 Inner covering (halogen-free polymer compound) in case of multicore constructions
- 6 Sheath (halogen-free polyolefin compound, orange)

-  **Rated voltage:** 0.6/1 kV
-  **Test voltage:** 4000 Veff
-  **Temperature range:**
 - laying temperature: min. -5 °C
 - operating temperature: -40 °C to +80 °C
 - conductor temperature: max. +90 °C
 - short-circuit temperature: max. +250 °C/5 s
-  **Bending radius (min.):**
 - 15 x Ø of cable (single core)
 - 12 x Ø of cable (multi core)
-  **Core identification:** coloured (HD 308 S2)
-  **Fire properties:**
 - flame retardant (EN 50265-2-1, IEC 60332-1)
 - halogen-free, no corrosive combustion gases (EN 50267-2-2, IEC 60754-2)
 - reduced fire propagation (IEC 60332-3 Cat. A, EN 50266-2-2, DIN VDE 0472-804)
 - minimum smoke emission (EN 50268-2, IEC 61034)
 - insulation integrity FE180 (IEC 60331, DIN VDE 0472-814)
 - functional integrity E30 (DIN VDE 4102-12)
-  **Test certificate:** VDE Germany

Number of cores x nominal cross section (mm ²)	Max. conductor resistance (Ω/km)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/packing (m)
NHXH FE180/E30, (N)HXH FE180/E30					
1 x 16 RE	1.1500	10.0	160	230	500 T, 1000 T
1 x 25 RM	0.7270	11.0	250	340	500 T, 1000 T
1 x 35 RM	0.5240	12.0	350	440	500 T, 1000 T
1 x 50 RM	0.3870	14.0	500	620	500 T, 1000 T
1 x 70 RM	0.2680	16.0	700	850	500 T, 1000 T
1 x 95 RM	0.1930	18.0	950	1,100	500 T, 1000 T
1 x 120 RM	0.1530	19.0	1,200	1,350	500 T, 1000 T
1 x 150 RM	0.1240	22.0	1,500	1,650	500 T, 1000 T
1 x 185 RM	0.0991	24.0	1,850	2,100	500 T, 1000 T
1 x 240 RM	0.0754	27.0	2,400	2,600	500 T, 1000 T
1 x 300 RM	0.0601	30.0	3,000	3,300	500 T, 1000 T

NHXX FE180/E30, (N)HXH FE180/E30

Number of cores x nominal cross section (mm ²)	Max. conductor resistance (Ω/km)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/packing (m)
NHXX FE180/E30, (N)HXH FE180/E30					
2 x 1.5 RE	12.1000	12.0	30	200	500 T, 1000 T
3 x 1.5 RE	12.1000	13.0	45	210	500 T, 1000 T
4 x 1.5 RE	12.1000	14.0	60	280	500 T, 1000 T
5 x 1.5 RE	12.1000	15.0	75	330	500 T, 1000 T
2 x 2.5 RE	7.4100	13.0	50	220	500 T, 1000 T
3 x 2.5 RE	7.4100	13.5	75	230	500 T, 1000 T
4 x 2.5 RE	7.4100	15.0	100	350	500 T, 1000 T
5 x 2.5 RE	7.4100	17.0	125	410	500 T, 1000 T
2 x 4 RE	4.6100	14.0	80	310	500 T, 1000 T
3 x 4 RE	4.6100	15.0	120	300	500 T, 1000 T
4 x 4 RE	4.6100	17.0	160	440	500 T, 1000 T
5 x 4 RE	4.6100	18.0	200	520	500 T, 1000 T
2 x 6 RE	3.0800	15.0	120	380	500 T, 1000 T
3 x 6 RE	3.0800	16.0	180	380	500 T, 1000 T
4 x 6 RE	3.0800	18.0	240	560	500 T, 1000 T
5 x 6 RE	3.0800	20.0	300	660	500 T, 1000 T
2 x 10 RE	1.8300	17.0	200	490	500 T, 1000 T
3 x 10 RE	1.8300	18.0	300	500	500 T, 1000 T
4 x 10 RE	1.8300	20.0	400	760	500 T, 1000 T
5 x 10 RE	1.8300	21.0	500	950	500 T, 1000 T
2 x 16 RE	1.1500	19.0	320	680	500 T, 1000 T
3 x 16 RE	1.1500	20.0	480	702	500 T, 1000 T
4 x 16 RE	1.1500	23.0	640	1,100	500 T, 1000 T
5 x 16 RE	1.1500	23.0	800	1,300	500 T, 1000 T
3 x 25 RM	0.7270	24.0	750	1,200	500 T, 1000 T
4 x 25 RM	0.7270	26.0	1,000	1,600	500 T, 1000 T
5 x 25 RM	0.7270	29.0	1,250	2,000	500 T, 1000 T
3 x 35 RM	0.5240	27.0	1,050	1,520	500 T, 1000 T
4 x 35 RM	0.5240	28.0	1,400	2,100	500 T, 1000 T
3 x 50 RM	0.3870	30.0	1,500	2,100	500 T, 1000 T
4 x 50 RM	0.3870	33.0	2,000	2,900	500 T, 1000 T
3 x 70 RM	0.2680	33.0	2,100	2,700	500 T, 1000 T
4 x 70 RM	0.2680	37.0	2,800	3,900	500 T, 1000 T
3 x 95 RM	0.1930	38.0	2,850	3,700	500 T, 1000 T
4 x 95 RM	0.1930	43.0	3,800	5,200	500 T, 1000 T
3 x 120 RM	0.1530	43.0	3,600	4,600	500 T, 1000 T
4 x 120 RM	0.1530	47.0	4,800	6,300	500 T, 1000 T
3 x 150 RM	0.1240	47.0	4,500	5,800	500 T, 1000 T
4 x 150 RM	0.1240	49.0	6,000	6,450	500 T, 1000 T
3 x 185 RM	0.0991	52.0	5,550	7,200	500 T
4 x 185 RM	0.0991	53.0	7,400	8,200	500 T
3 x 240 RM	0.0754	56.0	7,200	8,300	500 T

NHXX FE180/E30, (N)HXH FE180/E30

Number of cores x nominal cross section (mm ²)	Max. conductor resistance (Ω/km)	Outer diameter (mm) ca.	Metal weight (kg/km)	Total weight (kg/km) ca.	Standard lengths/packing (m)
NHXX FE180/E30, (N)HXH FE180/E30					
4 x 240 RM	0.0754	60.0	9,600	10,700	500 T
7 x 1.5 RE	12.1000	16.0	105	380	500 T, 1000 T
10 x 1.5 RE	12.1000	20.0	150	520	500 T, 1000 T
12 x 1.5 RE	12.1000	21.0	180	580	500 T, 1000 T
14 x 1.5 RE	12.1000	22.0	210	660	500 T, 1000 T
19 x 1.5 RE	12.1000	25.0	285	850	500 T, 1000 T
24 x 1.5 RE	12.1000	29.0	360	1,050	500 T, 1000 T
30 x 1.5 RE	12.1000	30.0	450	1,200	500 T, 1000 T
7 x 2.5 RE	7.4100	20.0	175	480	500 T, 1000 T
10 x 2.5 RE	7.4100	25.0	250	680	500 T, 1000 T
12 x 2.5 RE	7.4100	26.0	300	780	500 T, 1000 T
14 x 2.5 RE	7.4100	27.0	350	900	500 T, 1000 T
19 x 2.5 RE	7.4100	29.0	475	1,100	500 T, 1000 T
24 x 2.5 RE	7.4100	34.0	600	1,350	500 T, 1000 T
30 x 2.5 RE	7.4100	36.0	750	1,650	500 T, 1000 T
7 x 4 RE	4.6100	22.0	280	640	500 T, 1000 T
10 x 4 RE	4.6100	27.0	400	900	500 T, 1000 T
12 x 4 RE	4.6100	28.0	480	1,050	500 T, 1000 T
7 x 6 RE	3.0800	23.0	420	800	500 T, 1000 T
10 x 6 RE	3.0800	29.0	600	1,150	500 T, 1000 T
12 x 6 RE	3.0800	30.0	720	1,300	500 T, 1000 T
3 x 25 + 16 RM	0.727/1.150	26.0	910	1,400	500 T, 1000 T
3 x 35 + 16 RM	0.524/1.150	27.0	1,210	1,600	500 T, 1000 T
3 x 50 + 25 RM	0.387/0.727	31.0	1,750	2,400	500 T, 1000 T
3 x 70 + 35 RM	0.268/0.524	36.0	2,450	3,200	500 T, 1000 T
3 x 95 + 50 RM	0.193/0.387	41.0	3,350	4,400	500 T, 1000 T
3 x 120 + 70 RM	0.153/0.268	46.0	4,300	5,400	500 T, 1000 T
3 x 150 + 70 RM	0.120/0.268	49.0	5,200	6,600	500 T, 1000 T
3 x 185 + 95 RM	0.0991/0.193	56.0	6,500	8,300	500 T
3 x 240 + 120 RM	0.0754/0.153	64.0	8,400	10,500	500 T

Subject to technical changes.