

NHXMH

Halogen-free installation cable

DESIGN



- 1 | Copper conductor, round solid (RE), resp. round stranded (RM)
- 2 | Core insulation (XLPE)
- 3 | Inner covering (halogen-free polymer compound)
- 4 | Sheath (halogen-free polyolefin compound, grey)

APPLICATION

As installation cable for fixed installation over, on, in and under plaster, in dry, damp and wet premises and in masonry and also in the open air but not for direct burial. 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.

TECHNICAL DATA



Standard:
DIN VDE 0250-214



Rated voltage:
300/500 V



Test voltage:
2 kV/50 Hz



Temperature range:
 laying temperature: min. +5 °C
 operating temperature
 – fixed: –40 °C to +70 °C
 – in motion: +5 °C to +70 °C
 conductor temperature: max. +70 °C
 short-circuit temperature: max. +250 °C/5 s



Bending radius (min.):
4 x Ø of cable



Core identification:
HD 308 S2



Fire properties:
 flame retardant:
 EN 60332-1-2
 halogen-free, non-corrosive combustion gases:
 EN 50267-2-2
 reduced flame propagation:
 EN 60332-3-24
 low smoke emission:
 EN 61034-2



Certificate:
VDE Germany

Number of cores x nominal cross section (mm ²)	Max. conductor resistance (Ω/km)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
NHXMH				
2 x 1.5 RE	12.100	9.1	125	500 D, 1,000 D
3 x 1.5 RE	12.100	9.5	140	500 D, 1,000 D
4 x 1.5 RE	12.100	10.1	165	500 D, 1,000 D
5 x 1.5 RE	12.100	10.8	190	500 D, 1,000 D
7 x 1.5 RE	12.100	11.6	230	500 D, 1,000 D
10 x 1.5 RE	12.100	14.0	325	500 D, 1,000 D
12 x 1.5 RE	12.100	15.0	365	500 D, 1,000 D
2 x 2.5 RE	7.410	9.9	160	500 D, 1,000 D
3 x 2.5 RE	7.410	10.3	180	500 D, 1,000 D
4 x 2.5 RE	7.410	11.1	215	500 D, 1,000 D
5 x 2.5 RE	7.410	11.9	250	500 D, 1,000 D
7 x 2.5 RE	7.410	14.0	340	500 D, 1,000 D

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Number of cores x nominal cross section (mm ²)	Max. conductor resistance (Ω/km)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/ packing (m)
NHXMH				
3 x 4 RE	4.610	11.8	255	500 D, 1,000 D
4 x 4 RE	4.610	13.1	315	500 D, 1,000 D
5 x 4 RE	4.610	14.5	385	500 D, 1,000 D
3 x 6 RE	3.080	13.3	345	500 D, 1,000 D
4 x 6 RE	3.080	14.7	430	500 D, 1,000 D
5 x 6 RE	3.080	15.9	490	500 D, 1,000 D
3 x 10 RE	1.830	15.8	520	500 D, 1,000 D
4 x 10 RE	1.830	17.1	625	500 D, 1,000 D
5 x 10 RE	1.830	18.2	735	500 D, 1,000 D
4 x 16 RM	1.150	20.3	950	500 D, 1,000 D
5 x 16 RM	1.150	22.5	1,120	500 D, 1,000 D
4 x 25 RM	0.727	25.1	1,440	500 D, 1,000 D
4 x 35 RM	0.524	28.5	1,880	500 D, 1,000 D

Subject to technical changes.