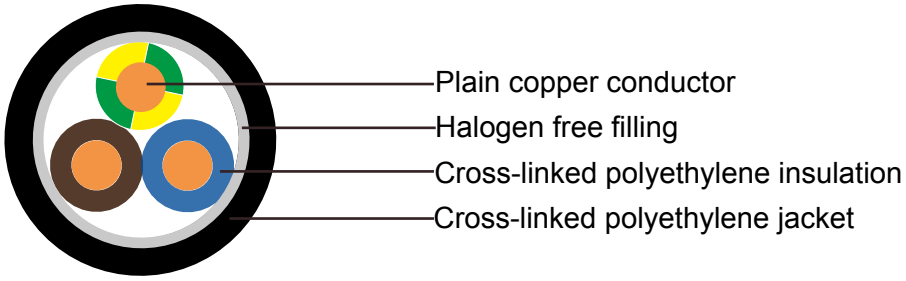
NHXMH

Application and Description

NHXMH cable is halogen free intended for fixed installation in dry and moist rooms as well as in masonry and concrete, in and under plaster; not for underground installation. NHXMH-J/O are especially used in buildings with a high concentration of persons or valuable property, where improved fire characteristics are needed. This product conforms to 73/23/EW G directive (low voltage directive) CE.

Standard and Approval

VDE 0250 (part 214), VDE 0482 (part 266-2-4, test type C), IEC 60228; IEC 60332-3-22; IEC 60754-1; IEC 60754-2, IEC 61034



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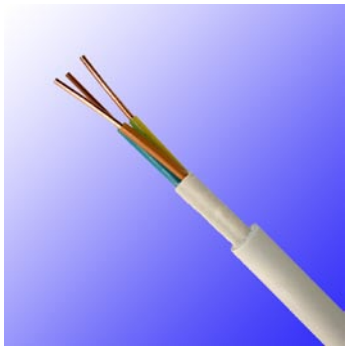

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Cable Construction

- Plain copper conductor, single conductor up to 10 mm² multi-conductor from 16-35 mm²
- To DIN VDE 0295 cl. 1 or 2, BS 6360 cl. 1 or 2 and IEC 60228 cl. 1 or 2
- Cross-linked polyethylene compound insulation 2XI1 to DIN VDE 0207 part 22
- Color coded to DIN VDE 0293-308
- Green-yellow grounding (3 conductors and above)
- Halogen free filling compound (not for single core cables)
- Flame-retardant, halogen free polyethylene compound jacket HM2 according to DIN VDE 0207 part 24

Technical Characteristics

- Working voltage: 300/500 volts
- Test voltage: 2000 volts
- Minimum bending radius: single conductor 15 x Ø
- Minimum bending radius: multi conductor 12 x Ø
- Flexing temperature: -5° C to +50° C
- Fixed installation temperature: - 30° C to +70° C
- Short circuit temperature: +250° C
- Flame-retardant to DIN VDE 0482 part 266-2/HD 405.3/BS 4066 PT3/EN 50266-2/IEC 60332-3
- Low corrosiveness of combustion gases
  to DIN VDE 0482 part 267/BS 6425 PT2/EN 50267-2-2/IEC 60754-2
- Halogen-free to DIN VDE 0482 part 267/BS 6425 PT1/EN 50267-2-1/IEC 60754-1
- Smoke density to DIN VDE 0482 part 268/HD 606/BS 7622 PT1,PT2/EN 50268-1,-2/IEC 61034-1,-2
- Insulation resistance: >100 MΩ x km

Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	Stranded Conductor Type	Nominal Overall Diameter mm	Nominal Copper Weight kg/km	Nominal Cable Weight kg/km
16	1 x 1.5	re	7	15	49
14	1 x 2.5	re	7.6	24	60
12	1 x 4.0	re	8.6	39	80
10	1 x 6.0	re	9.9	58	111
8	1 x 10.0	re	11.2	96	160
6	1 x 16.0	re	11.9	154	232
16	2 x 1.5	re	8.9	29	110
14	2 x 2.5	re	10	48	136
12	2 x 4.0	re	11.4	77	202
16	3 x 1.5	re	9.4	43	130
14	3 x 2.5	re	10.4	72	163
12	3 x 4.0	re	11.8	115	235
10	3 x 6.0	re	13.4	173	323
8	3 x 10.0	re	16	288	485
6	3 x 16.0	re	19.7	461	850
4	3 x 25.0	rm	24.3	720	1152

German Standard (VDE)

AWG	No. of Cores x Nominal Cross Sectional Area # x mm²	Stranded Conductor Type	Nominal Overall Diameter mm	Nominal Copper Weight kg/km	Nominal Cable Weight kg/km
2	3 x 35.0	sm	27.2	1008	1503
16	4 x 1.5	re	10.2	58	151
14	4 x 2.5	re	11.3	96	200
12	4 x 4.0	re	13.3	154	300
10	4 x 6.0	re	14.8	230	400
8	4 x 10.0	re	17.4	384	603
6	4 x 16.0	re	21.6	615	940
4	4 x 25.0	rm	27	960	1432
2	4 x 35.0	sm	29.9	1344	1930
16	5 x 1.5	re	10.8	72	177
14	5 x 2.5	re	11.9	120	238
12	5 x 4.0	re	14.8	192	345
10	5 x 6.0	re	16	288	475
8	5 x 10.0	re	18.9	480	720
6	5 x 16.0	re	23.8	768	1142
4	5 x 25.0	rm	29	1200	1800
2	5 x 35.0	rm	32.7	1680	2490
16	7 x 1.5	re	11.4	101	209
14	7 x 2.5	re	13.5	168	300