

NHXMH-J (O) 300/500 V

Safety and halogen-free cables



TECHNICAL INFORMATION:

Installation conductor with copper wires, with cross-linked polyethylene insulation and halogen-free material sheath, limited smoke and corrosive gas generation during combustion, with or without a protective core.

CONSTRUCTION:

Conductors	copper single-wire class 1 or multi-wire class 2, to PN-EN 60228
Insulation	cross-linked polyethylene
Insulation colour	NHXMH-O 1-conductor: black (other colours on request) 2-conductor: blue, brown 3-conductor: brown, black, grey or blue, brown, black 4-conductor: blue, brown, black, grey 5-conductor: blue, brown, black, grey, black over 5 conductors - numbered conductors NHXMH-J 3-conductor: green-yellow, blue, brown 4-conductor: yellow-green, black, brown, grey or yellow-green, blue, brown, black 5-conductor: green-yellow, blue, brown, black, grey over 5 conductors - numbered conductors, green-yellow
Filling compound	special halogen-free rubber
Sheath	special halogen-free, self-extinguishing, +flame-retardant, grey colour
Operating temperature	od -30°C do +70°C
Rated voltage	300/500 V
Bending radius	for single-conductor cables - 15 x conductor outer diameter for multi-conductor cables - 12 x conductor outer diameter
Application	halogen-free power supply conductors for installations in facilities where human life and property must be protected against fire (hotels, hospitals, schools, airports, underground and train stations, industrial installations); conductors to be laid in dry and moist rooms, over and in plasterwork, in brick walls and directly in concrete; only permanent installation possible; in outdoor or underground installations cables must be laid in cable ducts or tubes

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Test	resistance of a single cable to flame propagation (fire resistance): PN-EN 60332-1, IEC 60332-1, DIN-VDE 0482-332-1 cable installation function maintenance E30: DIN-VDE 4102-12 insulation resistance to long-term fire impact (insulation durability) FE180: IEC 60331-11, IEC 60331-21, IEC 60331-31, DIN-VDE 0472-814 resistance of a cable bundle to flame propagation: PN-EN 60332-3-24, IEC 60332-3, DIN-VDE 482-266-2 emission of corrosive gases during combustion: PN-EN 50267, IEC 60754-2, DIN-VDE 0472-813 emission of smoke density during combustion: PN-EN 61034-1(-2), IEC 61034-1(-2), DIN-VDE 0482-1034-2
Packing	drums; other containers on customer's request

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Conductor number and rated cross-section [n x mm ²]	Approximate external cable diameter [mm]	Approximate cable weight [kg/km]
1 x 1,5 RE	5,2	40
1 x 2,5 RE	5,5	52
1 x 4,0 RE	6,2	70
1 x 6,0 RE	6,7	91
1 x 10 RE	7,7	135
1 x 16 RE	8,7	202
1 x 25 RM	10,6	305
1 x 35 RM	11,8	396
2 x 1,5 RE	8,3	106
2 x 2,5 RE	9,1	136
2 x 4 RE	10,4	189
2 x 6 RE	11,4	244
2 x 10 RE	13,8	376
2 x 16 RE	16,0	558
2 x 25 RM	20,0	871
2 x 35 RM	22,7	1143
3 x 1,5 RE	8,7	121
3 x 2,5 RE	9,5	159
3 x 4 RE	10,9	225
3 x 6 RE	12,3	307
3 x 10 RE	14,5	462
3 x 16 RE	16,9	699
3 x 25 RM	21,6	1110
3 x 35 RM	24,2	1451
4 x 1,5 RE	9,3	142
4 x 2,5 RE	10,2	190
4 x 4 RE	12,2	282
4 x 6 RE	13,4	373
4 x 10 RE	16,0	580
4 x 16 RE	18,4	872
4 x 25 RM	23,8	1399

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4 x 35 RM	26,6	1816
5 x 1,5 RE	9,9	166
5 x 2,5 RE	11,0	225
5 x 4 RE	13,2	336
5 x 6 RE	14,5	447
5 x 10 RE	17,4	697
5 x 16 RE	20,7	1086
5 x 25 RM	26,1	1692
5 x 35 RM	29,4	2220
7 x 1,5 RE	11,1	212
7 x 2,5 RE	12,2	290
12 x 1,5RE	14,0	326
12 x 2,5 RE	15,7	463

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