

NHXMH

Power cable, 300/500V

halogen-free, with improved fire characteristics,
VDE 250-214



- 1 Conductor: solid/stranded
- 2 Insulation: cross-linked PE zero halogen
- 3 Filler: flame retardant zero halogen
- 4 Sheath: FRNC/LSZH



Description

For permanent installation in dry, damp or wet areas, on or behind plasterwork or in walls or concrete, except for direct embedding in cast, rammed or vibrated concrete.
Also suitable for outdoor applications.

Construction

Conductor	Bare copper, solid or stranded, IEC 60228 and EN 60228 (VDE 0295)
Core colours	CENELEC HD 308 S2, VDE 0293
Filler	Halogen-free compound
Insulation	Cross-linked Polyethylene, CENELEC HD 604 S1 and VDE 0276-604 "2X11"
Outer sheath material	Polyolefin compound, VDE 0250-214 "HM2"

General Properties

Imprint	On request
Installation temperature	5 °C - +50 °C
Operating temperature	-40 °C - +70 °C

Mechanical properties

Minimum bending during installation (multi core)	6 x D
Minimum bending radius permanent (multi core)	4 x D

Standards

Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2, AREI-RGIE Art.104-SA
Flame Propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2, AREI-RGIE Art.104-F1
Flame Spread	IEC 60332-3-24, EN 60332-3-24, AREI-RGIE Art.104-F2
Smoke Density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2, AREI-RGIE Art.104-SD

Note

Additional dimensions available on request.

Versions

Material number	Product	Diameter mm ²	Outer sheath diameter [mm]	CU rate [kg/km]	Weight [kg/km]	Fire load [kWh/m]	Conductor	Construction
154675	NHXMHO 2 x 1.5	1.5	8.5	29	100	0.33	solid	LN
154676	NHXMHO 2 x 2.5	2.5	9	48	115	0.33	solid	LN
149254	NHXMHJ 3 x 1.5	1.5	9.2	43	110	0.33	solid	LNPE
154369	NHXMHJ 3 x 2.5	2.5	10	72	145	0.38	solid	LNPE
154677	NHXMHJ 3 x 4	4	12	115	230	0.59	solid	LNPE
154678	NHXMHJ 3 x 6	6	13	173	300	0.68	solid	LNPE
173842	NHXMHJ 3 x 10	10	16	288	510	1.08	solid	LNPE
154367	NHXMHJ 4 x 1.5	1.5	9	58	130	0.38	solid	2LNPE
154679	NHXMHJ 4 x 2.5	2.5	10.5	96	200	0.46	solid	2LNPE
154680	NHXMHJ 4 x 4	4	12.5	154	290	0.70	solid	2LNPE
154681	NHXMHJ 4 x 6	6	14	230	390	0.83	solid	2LNPE
174718	NHXMHJ 4 x 10	10	17	384	620	1.25	solid	2LNPE
154368	NHXMHJ 5 x 1.5	1.5	10	72	150	0.44	solid	3LNPE
154370	NHXMHJ 5 x 2.5	2.5	11	120	205	0.50	solid	3LNPE
154371	NHXMHJ 5 x 4	4	13.5	192	340	0.81	solid	3LNPE
154372	NHXMHJ 5 x 6	6	15	288	455	0.93	solid	3LNPE
169929	NHXMHJ 5 x 10	10	18.5	480	730	1.44	solid	3LNPE
169930	NHXMHJ 5 x 16	16	22.5	768	1,150	2.06	stranded	3LNPE
154682	NHXMHJ 7 x 1.5	1.5	10.5	101	195	0.55	solid	5LPE
154683	NHXMHJ 7 x 2.5	2.5	12.5	168	285	0.74	solid	5LPE
174719	NHXMHJ 10 x 1.5	1.5	14.5	144	330	0.92	solid	9LPE
156849	NHXMHJ 12 x 1.5	1.5	15	173	345	0.95	solid	11LPE
174720	NHXMHJ 24 x 1.5	1.5	19.5	346	610	1.65	solid	23LPE