

NHXMH-O/-J

halogen-free plastic sheathed cable 300/500 V, VDE approved



NHXMH-J

CE

Technical data

- Halogen-free plastic-sheathed cable with enhanced characteristics in case of fire, acc. to DIN VDE 0250 part 214
- Max. **temperature at the conductor** during operation +70°C in case of short circuit +250°C
- **Temperature range** during installation +5°C to +70°C fixed installation -30°C to +70°C
- **Nominal voltage** U₀/U 300/500 V
- **Test voltage** 2000 V
- **Minimum bending radius** fixed installation 4x cable Ø
- **Caloric load values** see "Technical Informations"

Cable structure

- Bare copper conductor to DIN VDE 0295, BS 6360, IEC 60228 up to 10 mm² cl.1: single-wire 16-35 mm² cl.2: multi-wire
- Core insulation of cross-linked polyethylene (XLPE)
- Core identification to DIN VDE 0293-308 1-core version: BK or GN-YE
- Cores stranded in layers with optimal lay length
- Overall core sheath of halogen-free filling compound (may be omitted for single-core cables)
- Outer sheath of flame-retardant, halogen-free polymer compound type HM2 to DIN VDE 0207 part 24
- Sheath colour: grey (RAL 7035)

Note

- re = round conductor, single-wire
rm = round conductor, multi-wire
- **LS0H** = Low Smoke Zero Halogen
- AWG sizes are approximate equivalent values. The actual cross section is in mm².
- Also deliverable in screened (St) version.

Properties

- Flame-retardant
- Halogen-free, no liberation of corrosive or toxic gases
- Limited propagation of fire
- Low smoke development
- Ozone resistant

Tests

- Flame test acc. to DIN VDE 0482-332-3-24, BS 4066 part 3, DIN EN 60332-3-24, IEC 60332-3-24
- Corrosiveness of combustion gases acc. to DIN VDE 0482-754-2, DIN EN 60754-2, IEC 60754-2
- Halogen-free acc. to DIN VDE 0482-754-1, DIN EN 60754-1, IEC 60754-1
- Smoke density acc. to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2, IEC 61034-1+2, BS 7622 part 1+2
- Ozone resistant acc. to DIN VDE 0473-396, DIN EN 50396

Application

Halogen-free plastic-sheathed cables with enhanced characteristics in case of fire are used for applications where harm to human life and damage to property must be prevented in the event of fire, e. g. in industrial installations, communal establishments, hotels, airports, underground stations, railway stations, hospitals, departmental stores, banks, schools, theatres, multi-storey buildings, process control centres etc. Suitable for installation in dry, damp or wet environments, for installation above, on, in and beneath plaster as well as in masonry walls and in concrete, not however for direct embedding in vibration, compacted or tamped concrete.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

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Part no.	No. cores x cross-sec. mm ²		Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
53300	1 x 1,5	re	5,0 - 8,4	15,0	49,0	16
53306	2 x 1,5	re	7,6 - 9,2	29,0	110,0	16
53301	1 x 2,5	re	5,4 - 8,8	24,0	60,0	14
53307	2 x 2,5	re	8,4 - 10,1	48,0	136,0	14
53302	1 x 4	re	6,0 - 9,5	39,0	80,0	12
53308	2 x 4	re	9,6 - 11,6	77,0	202,0	12
53303	1 x 6	re	6,4 - 10,0	58,0	111,0	10
53304	1 x 10	re	7,4 - 11,3	96,0	160,0	8
53305	1 x 16	rm	8,5 - 12,4	154,0	232,0	6

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Part no.	No. cores x cross-sec. mm ²		Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
53350	3 G 1,5	re	8,0 - 9,6	43,0	130,0	16
53358	4 G 1,5	re	8,5 - 10,3	58,0	151,0	16
53366	5 G 1,5	re	9,1 - 11,0	72,0	177,0	16
53374	7 G 1,5	re	9,9 - 11,9	101,0	209,0	16
53351	3 G 2,5	re	8,7 - 10,6	72,0	163,0	14
53359	4 G 2,5	re	9,5 - 11,5	96,0	200,0	14
53367	5 G 2,5	re	10,4 - 12,3	120,0	238,0	14
53375	7 G 2,5	re	11,4 - 13,8	168,0	300,0	14

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Part no.	No. cores x cross-sec. mm ²		Outer Ø min. - max. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
53192	1 G 4	re	6,0 - 9,5	39,0	80,0	12
53352	3 G 4	re	10,1 - 12,2	115,0	235,0	12
53360	4 G 4	re	11,3 - 13,7	154,0	300,0	12
53368	5 G 4	re	12,5 - 15,1	192,0	345,0	12
53193	1 G 6	re	6,4 - 10,0	58,0	111,0	10
53353	3 G 6	re	11,5 - 13,9	173,0	323,0	10
53361	4 G 6	re	12,7 - 15,3	230,0	400,0	10
53369	5 G 6	re	13,7 - 16,6	288,0	475,0	10
53194	1 G 10	re	7,4 - 11,3	96,0	160,0	8
53354	3 G 10	re	13,8 - 16,7	288,0	485,0	8
53362	4 G 10	re	15,1 - 18,2	384,0	603,0	8
53370	5 G 10	re	16,3 - 19,7	480,0	720,0	8
53195	1 G 16	rm	8,5 - 12,4	154,0	232,0	6
53355	3 G 16	rm	16,5 - 20,0	461,0	850,0	6
53363	4 G 16	rm	18,0 - 21,8	615,0	940,0	6
53371	5 G 16	rm	19,7 - 23,8	768,0	1142,0	6
53356	3 G 25	rm	20,4 - 24,6	720,0	1152,0	4
53364	4 G 25	rm	22,6 - 27,3	960,0	1432,0	4
53372	5 G 25	rm	24,7 - 29,8	1200,0	1800,0	4
53357	3 G 35	rm	22,7 - 27,4	1008,0	1503,0	2
53365	4 G 35	rm	24,9 - 30,0	1344,0	1930,0	2
53373	5 G 35	rm	27,5 - 33,2	1680,0	2490,0	2

Dimensions and specifications may be changed without prior notice. (RO01)