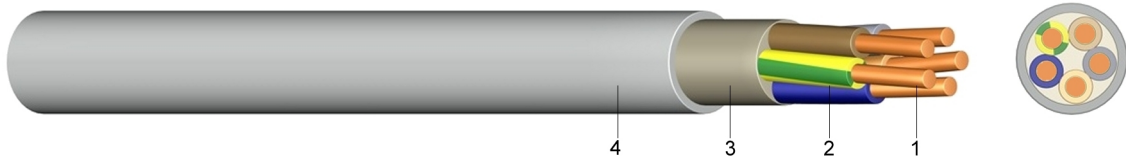


## NHXMH

## Halogen-Free Sheathed Wire with Improved Fire Behaviour

### Application:

To be installed in buildings or industrial plants where many people and goods are concentrated. As they don't develop corrosive and halogen gases under the impact of fire, and the smoke and fume generation is also minimal, the damage caused is much smaller. They are destined for the installation on, in and under the wall-surface in dry, humid and wet locations as well as in brickwork or outdoors (when protected), but not directly into the earth.



### Construction:

- 1 ..... solid or stranded bare copper
- 2 ..... core insulation of cross-linked polyethylene (2X11)
- 3 ..... core covering of a halogen-free filling compound
- 4 ..... outer sheath of halogen-free polymer (HM2), grey

### Standards:

DIN VDE 0250-214  
 DIN EN 60228 class 1 and 2 (construction)  
 HD 308 S2 (core identification)

### Technical data:

Nominal voltage U <sub>0</sub> /U		[V]	300 / 500 Volt
Test voltage		[V] <sub>AC</sub>	2000
Temperature range	in motion		-5°C till +70°C
Operating temperature	short circuit	°C	160
Short circuit time	max.	[sec]	5
Bending radius	in motion	x diameter	12
Flammability	standard		EN 50266-2-4 EN 60332-1 IEC 60332-3 Kat.C

Number of cores and nominal cross section	Copper figure	Cond. construction (appr. value)	Overall diameter	Calorific potential	Weight
mm <sup>2</sup>	kg/km	mm	appr. mm	kWh/m	appr. kg/km
1 x 4	38,4	1 x 2,25	6,0	0,42	105
1 x 6	57,6	1 x 2,76	6,4	0,44	150
1 x 10	96,0	1 x 3,56	7,4	0,53	200
1 x 16 RM	153,6	7 x 1,70	8,6	0,63	295
2 x 1,5	28,8	1 x 1,38	8,7	0,39	113
2 x 2,5	48,0	1 x 1,38	9,5	0,45	145
3 x 1,5	43,2	1 x 1,38	9,1	0,43	130
3 x 2,5	72,0	1 x 1,78	9,9	0,50	168
3 x 4	115,2	1 x 2,25	11,2	0,63	234
3 x 6	172,8	1 x 2,76	12,7	0,79	319
3 x 10	288,0	1 x 3,56	15,3	1,09	494
4 x 1,5	57,6	1 x 1,38	9,7	0,50	152
4 x 2,5	96,0	1 x 1,78	10,6	0,58	201
4 x 4	153,6	1 x 2,25	12,5	0,83	296
4 x 6	230,4	1 x 2,76	13,7	0,92	388
4 x 10	384,0	1 x 3,56	16,5	1,29	606
4 x 16 RM	614,4	7 x 1,70	19,4	1,68	917

<b>Number of cores and nominal cross section</b>	<b>Copper figure</b>	<b>Cond. construction (appr. value)</b>	<b>Overall diameter</b>	<b>Calorific potential</b>	<b>Weight</b>
<b>mm<sup>2</sup></b>	<b>kg/km</b>	<b>mm</b>	<b>appr. mm</b>	<b>kWh/m</b>	<b>appr. kg/km</b>
5 x 1,5	72,0	1 x 1,38	10,4	0,59	177
5 x 2,5	120,0	1 x 1,78	11,5	0,69	241
5 x 4	192,0	1 x 2,25	13,5	0,96	352
5 x 6	288,0	1 x 2,76	15,3	1,16	485
5 x 10 RE	480,0	1 x 3,56	18,0	1,56	731
5 x 10 RM	480,0	7 x 1,35	18,0	1,56	731
5 x 16 RM	768,0	7 x 1,70	22,2	2,23	1.168
7 x 1,5	100,8	1 x 1,38	11,1	0,65	220
7 x 2,5	168,0	1 x 1,78	12,7	0,82	311
12 x 1,5	172,8	1 x 1,38	14,8	1,11	391