

NHXMH

Halogen-Free Sheated Wire with Improved Fire Behaviour



Application

Halogen-free cable for installations, with improved fire behavior, laying on, in and under plaster, in masonry, reinforced concrete, dry, humid and wet locations

Construction

Conductor material	Copper: solid (RE) or stranded (RM)
Insulation	Core insulation 2XI1
Filling	Core covering of a halogen-free filling compound
Outer sheath	Halogen-free HM2, grey or special colours

Standards and Certifications

DIN VDE 0250-214
 DIN EN 60228 cl.1 (RE) and cl.2 (RM) - (construction)
 This cable is VDE certified



Core Identification

Accordance to HD 308 S2

JZ: One core green/yellow, other cores are black with figures

OZ: Every core is black with figures

Technical Data

Nominal voltage U ₀ /U	[V]	300 / 500 V
Test voltage	[V]AC	2000
Temperature range	in motion °C	+5°C till +70°C
	fixed °C	-40°C till +70°C
Operating temperature	short circuit °C	160°C
Short circuit time	max. [sec]	5
Bending radius	single core x diameter	4

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Fire classification CPR class

Reaction to fire EN 60332-1-2

Number of cores x Cross- section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20° C [Ω/km]
1 x 4	6.0	105	4.61
1 x 6	6.4	150	3.08
1 x 10 RE	7.4	200	1.83
1 x 10 RM	8.1	225	1.83
1 x 16 RE	8.6	295	1.15
1 x 25 RM	11.1	426	0.727
2 x 1.5	8.7	113	12.1
2 x 2.5	9.5	145	7.41
2 x 10	14.9	329	1.83
2 x 10 RM	15.8	412	1.83
2 x 16	16.7	459	1.15
2 x 25	19.2	750	0.727
2 x 35	21.7	1047	0.524
3 x 1.5	9.1	130	12.1
3 x 2.5	9.9	168	7.41
3 x 4	11.2	234	4.61
3 x 6	12.7	319	3.08
3 x 10	15.3	494	1.83
3 x 10 RM	16.1	639	1.83
3 x 16	16.9	688	1.15
3 x 25	20.8	1038	0.727
3 x 35	23.0	1357	0.524
4 x 1.5	9.7	152	12.1
4 x 2.5	10.6	201	7.41
4 x 4	12.5	296	4.61
4 x 6	13.7	388	3.08
4 x 10	16.3	606	1.83
4 x 10 RM	17.7	812	1.83

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Number of cores x Cross- section	Overall diameter (approx.) [mm]	Weight (approx.) [kg/km]	Maximum electrical resistance at 20° C [Ω/km]
4 x 16	19.4	917	1.15
4 x 25	22.6	1307	0.727
4 x 35	25.1	1718	0.524
5 x 1.5	10.4	177	12.1
5 x 2.5	11.5	241	7.41
5 x 4	13.5	352	4.61
5 x 6 RE	15.3	485	3.08
5 x 10 RM	18.0	731	1.83
5 x 16 RM	22.2	731	1.15
5 x 25 RM	25.1	1626	0.727
5 x 35 RM	27.9	2140	0.524
7 x 1.5 RE	11.1	220	12.1
7 x 2.5 RE	12.7	311	7.41

Designation

RE Solid round conductors

RM Stranded round conductors

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