



# NHXMH

Halogen-free power and signal cable 0,6/1 kV, with improved properties under fire

## APPLICATION

NHXMH cables are suitable for fixed installation in dry and damp environment, on or under plaster, on cable trays, same as in walls and concrete. Not intended for direct laying in ground or water. For outdoor application can be laid in tubes, but in that case should be taken all precautionary measures necessary to prevent water penetration into the tubes. Appropriate for application in all situations where people and material goods need to be protected in case of fire. Recommended for public buildings frequented by a lot of people, and for buildings of high material value, for industrial complexes, electric power plants, transformer stations, municipal facilities, hotels, shopping malls, hospitals, schools, airports, underground railways and similar.

## CONSTRUCTION

Conductors: Cu, class 1 or 2 according to EN 60228

Insulation: Cross-linked halogen-free polymer, type 2XI1

Bedding: Extruded halogen-free polymer or lapped glass fibres

Sheath: HFFR compound, type HM2

## CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

Single-core: ● Green/Yellow OR ● Black

2-core: ● Brown ● Blue

3-core (a): ● Green/Yellow ● Brown ● Blue

3-core (b): ● Black ● Brown ● Grey

4-core (a): ● Green/Yellow ● Brown ● Black ● Grey

4-core (b): ● Blue ● Brown ● Black ● Grey

5-core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour:

● Grey

*Other colours available on request*

## TECHNICAL CHARACTERISTICS

CPR class: Eca

Test voltage: 4 kV

Rated voltage: 0,6/1 kV

Bending radius (min): single-core- 15D;  
multicore- 12D

Min. laying temperature: -5°C

Max. conductor temperature: 90°C

Max. short-circuit temperature: 250°C

## STANDARD

DIN VDE 0250-214, HD 604 S1

## CERTIFICATION



International  
Electrotechnical  
Commission



NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm <sup>2</sup>		Ω/km	A	mm	kg/km	kg/km
1x1,5	RE	12,1	24	5,2	14,4	43
1x2,5	RE	7,41	32	5,6	24,0	55
1x4	RE	4,61	42	6,3	38,4	76
1x6	RE	3,08	53	6,8	57,6	100
1x10	RE	1,830	74	7,9	96,0	148
1x16	RM	1,150	102	8,9	153,6	215
2x1,5	RE	12,1	24	9,2	28,8	119
2x2,5	RE	7,41	32	10,0	48,0	153
2x4	RE	4,61	42	11,0	76,8	208
2x6	RE	3,08	53	12,0	115,2	269
2x10	RE	1,830	74	14,4	192,0	427
2x16	RM	1,150	102	16,2	307,2	601
2x25	RM	0,727	138	19,6	480,0	907
2x35	RM	0,524	170	22,6	672,0	1235
3x1,5	RE	12,1	24	9,7	43,2	137
3x2,5	RE	7,41	32	10,5	72,0	181
3x4	RE	4,61	42	11,6	115,2	250
3x6	RE	3,08	53	13,1	172,8	342
3x10	RE	1,830	74	15,2	288,0	527
3x16	RM	1,150	102	17,5	460,8	776
3x25	RM	0,727	138	21,2	720,0	1168
3x35	RM	0,524	170	23,9	1008,0	1570
4x1,5	RE	12,1	24	10,4	57,6	174
4x2,5	RE	7,41	32	11,3	96,0	23
4x4	RE	4,61	42	12,9	153,6	342
4x6	RE	3,08	53	14,6	230,4	469
4x10	RE	1,830	74	16,5	384,0	704
4x16	RM	1,150	102	19,1	614,4	1042
4x25	RM	0,727	138	23,5	960,0	1607
4x35	RM	0,524	170	26,2	1344,0	2127
5x1,5	RE	12,1	24	11,2	72,0	172
5x2,5	RE	7,41	32	12,2	120,0	273
5x4	RE	4,61	42	14,4	192,0	419
5x6	RE	3,08	53	15,7	288,0	555
5x10	RE	1,830	74	17,9	480,0	839
5x16	RM	1,150	102	12,1	768,0	1269
5x25	RM	0,727	138	25,6	1200,0	1928
5x35	RM	0,524	170	29,0	1680,0	2595
7x1,5	RE	12,1	24	12,0	100,8	194
7x2,5	RE	7,41	32	12,6	168,0	289