

# (N)HMH-O halogen-free for fixed installation, emission-free, 300/500V



HELUKABEL (N)HMH-O 3x1,5 / 51981 300/500 V 001042644

CE



## Technical data

- Plastic-sheathed cable, halogen-free, for fixed installation
- To DIN VDE 0250 part 215
- Permissible **working temperature** at the conductor +70 °C
- **Nominal voltage**  $U_0/U$  300/500 V
- Max. **voltage** for equipment  $U_m$  550 V
- **Power rating**
- in accordance with DIN VDE 0298 part 4, tables 3 and 4, analogous for NYM, taking the type of installation and the appropriate factors for differing ambient temperatures and build-up of cables
- rated short-circuit current of density acc. to DIN VDE 0298 part 4 table 15
- fuse rating according to DIN VDE 0100 part 430
- **Caloric load values**  
see Technical Informations

## Cable structure

- Bare Cu conductor, solid or stranded on the basis of DIN VDE 0250 part 204 with the following modifications:
- Core insulation of halogen-free thermoplastic polymer compound with optimum wall thickness
- Colour coded to DIN VDE 0293-308
- for 1 core cable  
core colour black
- Cores stranded in layer
- Extruded core insulation, halogen-free
- Outer jacket of non-cross-linked, halogen-free thermoplastic polymer compound
- Jacket colour light-grey (RAL 7035)

## Properties

- **Corrosive nature of combustion gases (halogen-free verification)**  
testing acc. to VDE 0482 part 267, DIN EN 50267-2-2, IEC 60754-2, HD 602 (equivalent DIN VDE 0472 part 813)
- **Behaviour in case of fire**  
self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- **Low smoke**  
testing acc. to DIN VDE 0472 part 818

## Note

- re = round conductor, single-wire;  
rm = round conductor, multiple-wire;
- x = without green-yellow earth core.
- O-version: single-core conductor with black core insulation. Cables between two and seven cores are without green-yellow core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

This plastic-sheathed cable of defined behaviour in case of fire is used for installations in residential dwellings, public buildings as well as in industrial constructions.

Suitable for applications in dry, damp or wet environments for installation above, on, in and beneath plaster, as well as in masonry and concrete walls, not however for embedding in vibration, compacted or tamped concrete.

The cable is also approved for outdoor applications provided these are not exposed to direct sunlight radiation. Installation of this cable in earth or in water is not permitted.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
51970	1 x 1,5 re	8,3	14,4	39,0	16
51976	2 x 1,5 re	8,9	29,0	82,0	16
51981	3 x 1,5 re	9,2	43,0	92,0	16
51983	4 x 1,5 re	9,9	58,0	115,0	16
51991	7 x 1,5 re	11,5	101,0	167,0	16
51971	1 x 2,5 re	9,0	24,0	47,0	14
51977	2 x 2,5 re	10,0	48,0	110,0	14
51982	3 x 2,5 re	10,6	72,0	128,0	14
51984	4 x 2,5 re	11,0	96,0	152,0	14
51972	1 x 4 re	9,5	38,0	62,0	12
51978	2 x 4 re	11,5	77,0	160,0	12
51985	4 x 4 re	13,4	154,0	244,0	12
51973	1 x 6 re	10,0	58,0	83,0	10
51979	2 x 6 re	12,4	115,0	208,0	10
51986	4 x 6 re	15,9	230,0	345,0	10

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
51974	1 x 10 re	11,5	96,0	125,0	8
51980	2 x 10 re	14,9	192,0	340,0	8
51987	4 x 10 re	17,5	384,0	522,0	8
51975	1 x 16 rm	12,9	154,0	188,0	6
51988	4 x 16 rm	19,9	614,0	815,0	6
51989	4 x 25 rm	27,4	960,0	1305,0	4
51990	4 x 35 rm	30,4	1344,0	1750,0	2

Dimensions and specifications may be changed without prior notice. (R001)