


ISO 9001:2015
NHXMH / 052XZ1
Installation Cable
Ref. DIN VDE 0250-214
Application :

Halogen-free installation cable suitable for application in household and industry, in facilities where human lives or valuable property need to be protected against damages caused by fire. Used as halogen-free alternative to NYM cable.

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. Laid in, on or under plaster, in walls or in concrete, directly or in cable canals, without special mechanical protection, not in dry or prestressed concrete. Suitable for dry, damp or wet environment, for internal or outdoor application (only if the cable is protected against direct sunlight).

Construction :

<i>Conductor</i>	Plain copper wire IEC 60228; DIN VDE 0295 class 1 or class 2
<i>Insulation</i>	XLPE (2X) compound - DIN VDE 0207
<i>Insulation colours</i>	
<i>Up to 5 cores</i>	Acc.to HD 308 S2, VDE 0293 - Blue, Brown, Black, Grey, G/Y
<i>Above 5 cores</i>	Black cores, white numbered TS EN 50334 - JZ - with Green/yellow core - OZ - without Green/yellow core
<i>Stranding</i>	Cores stranded in layers
<i>Bedding</i>	HFFR Compound / White
<i>Outer sheath</i>	HFFR Compound HM2 - DIN VDE 0207
<i>Outer sheath colour</i>	Grey RAL7001

Technical data (20°C) :

<i>Rated voltage</i>	300/500 V					
<i>max. Temperature of conductors</i>	+90°C					
<i>Temp.range (Fixed)</i>	-30°C/+70°C					
<i>Temp.range (Flexing)</i>	-5°C/+70°C					
<i>Test voltage</i>	2,0 kV AC 5 min.					
<i>Insulation resistance</i>	min. 1000 MΩkm					
<i>min.Bending Radius</i>	12xD					
<i>Flame retardance</i>	IEC 60332-1					
<i>Halogen amount/acidity tests</i>	TS EN 50267-2					
<i>Smoke density test</i>	TS EN 61034-2					
<i>Cross section (mm²)</i>	<u>1,5</u>	<u>2,5</u>	<u>4,0</u>	<u>6,0</u>	<u>10,0</u>	<u>16,0</u>
<i>Conductor</i>	1,36	1,76	2,20	2,70	3,50	7x1,70
<i>Insulation thickness/ mm nom.</i>	0,50	0,50	0,60	0,60	0,70	0,70
<i>Conductor resistance - max. Ω/km</i>	12,2	7,56	4,7	3,11	1,84	1,16

<i>number of cores x cross section</i>	<i>Copper weight kg/km</i>	<i>Bedding thickness mm</i>	<i>Outer sheath thickness mm</i>	<i>Outer diameter mm</i>	<i>Approx. weight kg/km</i>
3x1,5	39,6	0,40	1,40	9,0	128
5x1,5	66,0	0,40	1,40	10,3	178
3x2,5	66,2	0,40	1,40	10,0	170
5x2,5	110,4	0,40	1,40	11,7	250

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