

NHXMH-J Cable

Eland Product Group **A9N**

Application

These cables are intended for fixed installation in dry and moist rooms as well as in masonry and concrete, in and under plaster; not for underground installation. NHXMH-J/O are especially used in buildings with a high concentration of persons or valuable property, where improved fire characteristics are needed. This product conforms to 73/23/EW G directive (low voltage directive) CE.

Standards

VDE 0250 (part 214), VDE 0482 (part 266-2-4, test type C)

Conductor

Class 1 for re: solid, round plain copper conductor, single wire to VDE0295

Class 2 for rm: stranded, round plain copper conductor, multi wire to VDE0295

Class 2 for sm: stranded, sectorial plain copper conductor to VDE0295

Insulation

XLPE (Cross-linked Polyethylene)

Filler

Halogen free compound

Sheath

Halogen free thermoplastic polymer compound

Sheath Colour

Black

Voltage Rating

300/500V

Temperature Rating

0°C to +70°C

Minimum Bending Radius

4 x overall diameter

Core Identification

Up to and including 5 cores:

colour coded or number coded

7 cores and above: number coded



Dimensions

Resistance Values (ohms per kilometre)

Eland Part Numbers	No. of Cores x Nominal Cross Sectional Area # x mm ²	Conductor Type	Nominal Overall Diameter mm	Nominal Weight kg/Km
--------------------	---	----------------	-----------------------------	----------------------

NHXMH-O Cable - 1 Core

A9NHXMH-O1015	1 x 1.5	re	7.0	49.0
A9NHXMH-O1025	1 x 2.5	re	7.6	60.0
A9NHXMH-O1040	1 x 4.0	re	8.6	80.0
A9NHXMH-O1060	1 x 6.0	re	9.9	111.0
A9NHXMH-O110	1 x 10.0	re	11.2	160.0
A9NHXMH-O116	1 x 16.0	re	11.9	232.0

NHXMH-O Cable - 2 Cores

A9NHXMH-O2015	2 x 1.5	re	8.9	110.0
A9NHXMH-O2025	2 x 2.5	re	10.0	136.0
A9NHXMH-O2040	2 x 4.0	re	11.4	202.0

NHXMH-J Cable - 3 Cores

A9NHXMH-J3015	3 x 1.5	re	9.4	130.0
A9NHXMH-J3025	3 x 2.5	re	10.4	163.0
A9NHXMH-J3040	3 x 4.0	re	11.8	235.0
A9NHXMH-J3060	3 x 6.0	re	13.4	323.0
A9NHXMH-J310	3 x 10.0	re	16.0	485.0
A9NHXMH-J316	3 x 16.0	re	19.7	850.0

NHXMH-J Cable - 4 Cores

A9NHXMH-J4015	4 x 1.5	re	10.2	151.0
A9NHXMH-J4025	4 x 2.5	re	11.3	200.0
A9NHXMH-J4040	4 x 4.0	re	13.3	300.0
A9NHXMH-J4060	4 x 6.0	re	14.8	400.0
A9NHXMH-J410	4 x 10.0	re	17.4	603.0
A9NHXMH-J416	4 x 16.0	re	21.6	940.0

NHXMH-J Cable - 5 Cores

A9NHXMH-J5015	5 x 1.5	re	10.8	177.0
A9NHXMH-J5025	5 x 2.5	re	11.9	238.0
A9NHXMH-J5040	5 x 4.0	re	14.8	345.0
A9NHXMH-J5060	5 x 6.0	re	16.0	475.0
A9NHXMH-J510	5 x 10.0	re	18.9	720.0
A9NHXMH-J516	5 x 16.0	re	23.8	1142.0

NHXMH-J Cable - 7 Cores

A9NHXMH-J7015	7 x 1.5	re	11.4	209.0
A9NHXMH-J7025	7 x 2.5	re	13.5	300.0

re = round conductor, single wire; rm = round conductor, multi wire; sm = sectorial conductor

Conductors

Class 1 solid conductors for Single Core and Multi-Core cables

Nominal Cross Sectional Area mm ²	2	
	Maximum Resistance of Conductor at 20°C	
	Circular, Annealed Copper Conductors	
	Plain ohms/Km	
1.50	12.1000	
2.50	7.4100	
4.00	4.6100	
6.00	3.0800	
10.00	1.8300	
16.00	1.1500	

Table in accordance with BS EN 60228:2005 (previously BS6360)

Datasheet Continues »

Class 2 stranded conductors for Single Core and Multi-Core cables

1	2	4	6	8
Nominal Cross Sectional Area mm ²	Minimum Number of Wires in the Conductor			Maximum Resistance of Conductor at 20°C
	Circular	Circular Compacted	Shaped	Annealed Copper Conductor
	Cu	Cu	Cu	Plain Wires ohms/Km
1.00	7	-	-	18.1000
1.50	7	6	-	12.1000
2.50	7	6	-	7.4100
4.00	7	6	-	4.6100
6.00	7	6	-	3.0800
10.00	7	6	-	1.8300
16.00	7	6	-	1.1500

Table in accordance with BS EN 60228:2005 (previously BS6360)

Electrical Characteristics

Current Carrying Capacity (amperes)

Nominal Cross Sectional Area mm ²	Current Carrying Capacity A	Voltage Drop
1.50	19	43.67
2.50	25	34.48
4.00	34	29.31
6.00	43	24.71
10.00	61	17.24
16.00	79	17.02