

NHXH FE I 80/E90

2 to 10C, 1.5&2.5SQMM, LSZH/HFFR Sheath

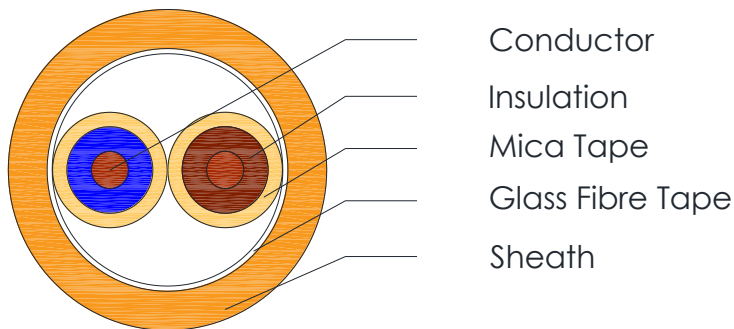


C5852 to C5887

Applications

NHXH 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, Suitable for electric installations with marked fire-fighting and function preserving requirements, for alarm systems, fire sensors, evacuation elevators and other supply systems in an emergency.

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Bare Copper wire
Wrapping Tape	Mica Tape
Insulation	Cross-linked halogen-free
Overall wrapping Tape	Glass fibre Tape
Sheath Material	Cross-linked Halogen Free Flame-Retardant (LSZH/HFFR) Standard Colour: Orange
Standard Put Up Length	305 and 500 metres

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Color Scheme

Number of Cores	NHXH-J	NHXH-O
2	-	Blue, Brown
3	Green/Yellow, Blue, Brown	Brown, Black, Grey
4	Green/Yellow, Brown, Black, Grey	Blue, Brown, Black, Grey
5	Green/Yellow, Blue, Brown, Black, Grey	Blue, Brown, Black, Grey, Black
More than 5 cores	Green/Yellow, Black cores with white numbers	Black cores with white numbers

Physical Characteristics

NHXH-J Part Number	C5852	C5853	C5854	C5855	C5856	C5857	C5858	C5859	C5860
NHXH-O Part Number	C5870	C5871	C5872	C5873	C5874	C5875	C5876	C5877	C5878
No of cores x cross section in sqmm (mm ²)	2 x 1.5	3 x 1.5	4 x 1.5	5 x 1.5	6 x 1.5	7 x 1.5	8 x 1.5	9 x 1.5	10 x 1.5
Nom. Diameter Conductor (mm)	1 x 1.38								
Nom. Insulation Diameter (mm)	3.40								
Nom. Overall Diameter (mm)	11.0	11.5	12.4	13.4	14.4	15.6	15.8	16.6	17.8
Cable weight (kg/km)	178	200	234	278	320	351	388	433	457
Min. Bending Radius (mm)	15 x OD								
Temperature Range (during installation)	-15 to 50								
Temperature Range (fixed installed)	-15 to 90								
At short circuit of max.5s (°C)	Up to 250								

NHXH-J Part Number	C5861	C5862	C5863	C5864	C5865	C5866	C5867	C5868	C5869
NHXH-O Part Number	C5879	C5880	C5881	C5882	C5883	C5884	C5885	C5886	C5887
No of cores x cross section in sqmm (mm ²)	2 x 2.5	3 x 2.5	4 x 2.5	5 x 2.5	6 x 2.5	7 x 2.5	8 x 2.5	9 x 2.5	10 x 2.5
Nom. Diameter Conductor (mm)	1 x 1.78								
Nom. Insulation Diameter (mm)	3.80								
Nom. Overall Diameter (mm)	11.8	12.4	13.4	14.5	15.6	16.9	17.7	18.1	19.4
Cable weight (kg/km)	217	250	296	353	408	426	499	562	593
Min. Bending Radius (mm)	15 x OD								
Temperature Range (during installation) (°C)	-15 to 50								
Temperature Range (fixed installed) (°C)	-15 to 90								
At short circuit of max.5s (°C)	Up to 250								

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Electrical Characteristics at 20°C

Part Number	1.5sqmm	2.5sqmm
Max. DC Resistance Conductor (Ω /km)	12.1	7.41
Max. Current load clipped direct-three-phase AC (A)	22	30
Max. Current load (at perforated cable tray or in air)-three-phase AC (A)	23	32
Max. Operating Voltage (Vrms)	600/1000	
Test Voltage (KV)	4	

Reference Standards

IEC 60228	IEC 60754-1&-2
IEC 60332-3-24	IEC 61034-1&-2
IEC 60331-21 FE180	RoHS Directives
DIN 4102part12, 90Min.	