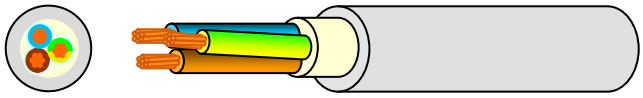

# NHXMH-J/O

◁VDE▷ CE 0051 EAC

## Reaction to Fire CPR: Cca-s1,d2,a1

**LS0H sheathed multicore cables with improved properties in the event of fire, with solid or stranded conductor for fixed wiring.**

### Rated voltage
Uo/U 300/500 V

### Standards
DIN VDE 0250-214, VDE 0295 cl.1 or cl.2, EN 50267-2-1 (DIN VDE 0482-267-2-1),
EN 50267-2-2 (DIN VDE 0482-267-2-2), EN IEC 61034-1 (DIN VDE 0482-1034-1),
EN IEC 61034-2 (DIN VDE 0482-1034-2), EN IEC 60332-1-2 (DIN VDE 0482-332-1-2),
EN IEC 60332-3-24 (Kat.C), (DIN VDE 0482-332-3-24 (Kat.C)), EN 50575:2014+A1:2016.

### Regulation Construction Products
305/2011 EU.

### European directives
2014/35/UE (LVD) - 2011/65/CE e 2015/863/EU (RoHS).

### Conductor
Annealed plain copper, solid (RE) class 1 or stranded (RM) class 2 EN 60228.

### Insulation
Cross-linked Polyethylene type 2XI1. Colours:
Two-cores : blue-brown (NHXMH-O);
Three-cores : green/yellow-blue-brown (NHXMH-J) or brown-black-grey (NHXMH-O);
Four-cores : green/yellow-brown-black-grey (NHXMH-J) or blue-brown-black-grey (NHXMH-O);
Five-cores : green/yellow-blue-brown-black-grey (NHXMH-J)
or blue-brown-black-grey-black (NHXMH-O).

### Sheath
Thermoplastic halogen-free compound type HM2. Colour: light grey.

### Marking
Continuous marking on the sheath: « I.C.E.L. NHXMH-J or NHXMH-O nominal cross section 300/500 V ◁VDE▷ production date ». Progressive meter marking.

### Guidance for Use
To be installed in buildings or industrial plants where many people and goods are present. As these cables don't develop corrosive and halogen gases in the event of fire, and also the smoke generation is limited and not opaque, the damage caused in case of fire is limited. They can be installed on, in and under the wall-surface, in dry, humid and wet locations, indoors or outdoors but can not be buried directly into the earth.

According to CPR EN 50399

EN 60332-1-2

Minimum installation and handling temp -5 °C

Maximum operating temperature on the conductor
70 °C

Maximum short circuit temperature (max 5 sec)
250 °C

Minimum usage temperature -30 °C

Maximum tensile stress 5 kg/mm²

Minimum internal bending radii 10 times the overall diameter
r

low emission of smoke LS0H

Low emission toxic and corrosive gas LS0H
ATOSSICO

According to RoHS
RoSH free

Icel conduttori di energie

# NHXMH-J/O

◁VDE▷ CE 0051 EAC

| Number and nominal cross-sectional area of conductors | Thickness of insulation specified value | Thickness of sheath specified value | Mean overall dimensions | | Indicative Cable weight | Maximum resistance of conductors at 20 °C | Minimum insulation resistance at 70 °C |
|---|---|---|---|---|---|---|---|
| | | | MIN | MAX | | | |
| mm² | mm | mm | mm | mm | g/m | ohm/km | Mohm•km |
| 2 x 1,5 RE | 0,5 | 1,4 | 7,6 | 9,2 | 93 | 12,1 | 0,008 |
| 2 x 2,5 RE | 0,5 | 1,4 | 8,4 | 10,1 | 125 | 7,41 | 0,007 |
| 2 x 4 RE | 0,6 | 1,4 | 9,6 | 11,6 | 183 | 4,61 | 0,006 |
| 3 x 1,5 RE | 0,5 | 1,4 | 8,0 | 9,6 | 104 | 12,1 | 0,008 |
| 3 x 2,5 RE | 0,5 | 1,4 | 8,7 | 10,6 | 137 | 7,41 | 0,007 |
| 3 x 4 RE | 0,6 | 1,4 | 10,1 | 12,2 | 204 | 4,61 | 0,006 |
| 3 x 6 RE | 0,6 | 1,6 | 11,5 | 13,9 | 292 | 3,08 | 0,006 |
| 3 x 10 RE | 0,7 | 1,6 | 13,8 | 16,7 | 450 | 1,83 | 0,005 |
| 4 x 1,5 RE | 0,5 | 1,4 | 8,5 | 10,3 | 133 | 12,1 | 0,008 |
| 4 x 2,5 RE | 0,5 | 1,4 | 9,5 | 11,5 | 174 | 7,41 | 0,007 |
| 4 x 4 RE | 0,6 | 1,6 | 11,3 | 13,7 | 274 | 4,61 | 0,006 |
| 4 x 6 RE | 0,6 | 1,6 | 12,7 | 15,3 | 354 | 3,08 | 0,006 |
| 4 x 10 RE | 0,7 | 1,6 | 15,1 | 18,2 | 554 | 1,83 | 0,005 |
| 4 x 16 RM | 0,7 | 1,6 | 18,0 | 21,8 | 857 | 1,15 | 0,004 |
| 4 x 25 RM | 0,9 | 1,8 | 22,6 | 27,3 | 1310 | 0,727 | 0,004 |
| 4 x 35 RM | 0,9 | 1,8 | 24,9 | 30,0 | 1730 | 0,524 | 0,003 |
| 5 x 1,5 RE | 0,5 | 1,4 | 9,1 | 11,0 | 141 | 12,1 | 0,008 |
| 5 x 2,5 RE | 0,5 | 1,4 | 10,2 | 12,3 | 203 | 7,41 | 0,007 |
| 5 x 4 RE | 0,6 | 1,6 | 12,5 | 15,1 | 324 | 4,61 | 0,006 |
| 5 x 6 RE | 0,6 | 1,6 | 13,7 | 16,6 | 437 | 3,08 | 0,006 |
| 5 x 10 RE | 0,7 | 1,6 | 16,3 | 19,7 | 670 | 1,83 | 0,005 |
| 5 x 16 RM | 0,7 | 1,8 | 19,7 | 23,8 | 1060 | 1,15 | 0,004 |
| 5 x 25 RM | 0,9 | 1,8 | 24,7 | 29,8 | 1620 | 0,727 | 0,004 |

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