

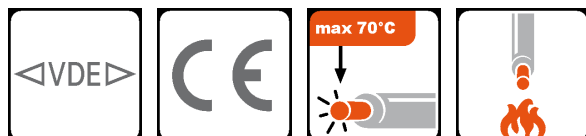
# Sheathed Building Wire NYM-J/-O acc. to VDE 0250-204



|                                                |                                                                    |                                                    |
|------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------|
| <b>conductor material:</b>                     | bare copper                                                        |                                                    |
| <b>insulation:</b>                             | PVC TI1                                                            |                                                    |
| <b>sheathing material:</b>                     | PVC TM1                                                            |                                                    |
| <b>colour of outer sheath:</b>                 | gray RAL 7035                                                      |                                                    |
| <b>flame retardant:</b>                        | VDE 0482-332-1-2/IEC 60332-1                                       |                                                    |
| <b>max. operating temperature, fixed:</b>      | 70 °C                                                              |                                                    |
| <b>temperature, moved/during installation:</b> | 5 - 70 °C                                                          |                                                    |
| <b>nominal voltage U<sub>0</sub>:</b>          | 300 V                                                              | 300 V                                              |
| <b>nominal voltage U:</b>                      | 500 V                                                              | 500 V                                              |
| <b>test voltage:</b>                           | 2 kV                                                               | 2 kV                                               |
| <b>core identification:</b>                    | colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers | colored acc. to HD 308; more than 5 cores: numbers |

**Application:** For installation in, on or under plaster, in dry, damp or wet rooms as well as in walls and concrete. Also suitable for installation outdoors if protected against direct sun irradiation.

|                  |         |
|------------------|---------|
| <b>Denmark:</b>  | N05VV-U |
| <b>Finnland:</b> | MMJ F2  |
| <b>Norway:</b>   | PFXP    |
| <b>Austria:</b>  | YM      |



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics

| p/n    | part name          |    | R <sub>l</sub><br>[Ω/km] | I <sub>bl</sub><br>[A] | R <sub>bv</sub><br>[mm] | D <sub>A</sub><br>[mm] | Cu<br>[kg/km] | G<br>[kg] |
|--------|--------------------|----|--------------------------|------------------------|-------------------------|------------------------|---------------|-----------|
| 020003 | NYM-J 01X2,5 GR    | RE | 7,41                     |                        | 23,2                    | 5,8                    | 24            | 70        |
| 020004 | NYM-J 01X4 GR      | RE | 4,61                     |                        | 25,6                    | 6,4                    | 38            | 80        |
| 020005 | NYM-J 01X6 GR      | RE | 3,08                     |                        | 27,2                    | 6,8                    | 58            | 105       |
| 020001 | NYM-J 01X10 GR     | RE | 1,83                     |                        | 32                      | 8                      | 96            | 155       |
| 020002 | NYM-J 01X16 GR     | RM | 1,15                     |                        | 36,4                    | 9,1                    | 154           | 230       |
| 020150 | NYM-J 01X25 GR     | RM | 0,727                    |                        | 49,2                    | 12,3                   | 240           | 330       |
| 020006 | NYM-J 03X1,5 GR    | RE | 12,1                     | 19,5                   | 32,8                    | 8,2                    | 43            | 135       |
| 020007 | NYM-J 03X1,5/TR GR | RE | 12,1                     | 19,5                   | 32,8                    | 8,2                    | 43            | 135       |
| 020009 | NYM-J 03X2,5 GR    | RE | 7,41                     | 27                     | 37,6                    | 9,4                    | 72            | 190       |
| 020166 | NYM-J 03X2,5/TR GR | RE | 7,41                     | 27                     | 37,6                    | 9,4                    | 72            | 190       |
| 020010 | NYM-J 03X4 GR      | RE | 4,61                     | 36                     | 43,2                    | 10,8                   | 115           | 265       |
| 020044 | NYM-J 03X6 GR      | RE | 3,08                     | 46                     | 48,8                    | 12,2                   | 173           | 315       |
| 020050 | NYM-J 03X10 GR     | RE | 1,83                     | 63                     | 58,8                    | 14,7                   | 288           | 465       |
| 020011 | NYM-J 04X1,5 GR    | RE | 12,1                     | 19,5                   | 35,2                    | 8,8                    | 58            | 160       |
| 020012 | NYM-J 04X1,5/TR GR | RE | 12,1                     | 19,5                   | 35,2                    | 8,8                    | 58            | 160       |
| 020015 | NYM-J 04X2,5 GR    | RE | 7,41                     | 24                     | 40,8                    | 10,2                   | 96            | 230       |
| 020169 | NYM-J 04X2,5/TR GR | RE | 7,41                     | 24                     | 40,8                    | 10,2                   | 96            | 230       |

| p/n    | part name          |    | R <sub>l</sub><br>[Ω/km] | I <sub>bl</sub><br>[A] | R <sub>bv</sub><br>[mm] | D <sub>A</sub><br>[mm] | Cu<br>[kg/km] | G<br>[kg] |
|--------|--------------------|----|--------------------------|------------------------|-------------------------|------------------------|---------------|-----------|
| 020018 | NYM-J 04X4 GR      | RE | 4,61                     | 32                     | 48,4                    | 12,1                   | 154           | 330       |
| 020019 | NYM-J 04X6 GR      | RE | 3,08                     | 41                     | 53,2                    | 13,3                   | 230           | 460       |
| 020013 | NYM-J 04X10 GR     | RE | 1,83                     | 57                     | 64,4                    | 16,1                   | 384           | 690       |
| 020014 | NYM-J 04X16 GR     | RM | 1,15                     | 76                     | 76                      | 19                     | 614           | 1090      |
| 020016 | NYM-J 04X25 GR     | RM | 0,727                    | 96                     | 93,6                    | 23,4                   | 960           | 1640      |
| 020017 | NYM-J 04X35 GR     | RM | 0,524                    | 119                    | 102,8                   | 25,7                   | 1344          | 2090      |
| 020020 | NYM-J 05X1,5 GR    | RE | 12,1                     | 17,5                   | 38                      | 9,5                    | 72            | 190       |
| 020021 | NYM-J 05X1,5/TR GR | RE | 12,1                     | 17,5                   | 38                      | 9,5                    | 72            | 190       |
| 020024 | NYM-J 05X2,5 GR    | RE | 7,41                     | 24                     | 44                      | 11                     | 120           | 270       |
| 020170 | NYM-J 05X2,5/TR GR | RE | 7,41                     | 24                     | 44                      | 11                     | 120           | 270       |
| 020026 | NYM-J 05X4 GR      | RE | 4,61                     | 32                     | 52,8                    | 13,2                   | 192           | 410       |
| 020027 | NYM-J 05X6 GR      | RE | 3,08                     | 41                     | 58                      | 14,5                   | 288           | 540       |
| 020022 | NYM-J 05X10 GR     | RE | 1,83                     | 57                     | 70,8                    | 17,7                   | 480           | 850       |
| 020023 | NYM-J 05X16 GR     | RM | 1,15                     | 76                     | 84,8                    | 21,2                   | 768           | 1350      |
| 020025 | NYM-J 05X25 GR     | RM | 0,727                    | 96                     | 102,8                   | 25,7                   | 1200          | 1990      |
| 020295 | NYM-J 05X35 GR     | RM | 0,524                    | 119                    | 134                     | 33,5                   | 1680          | 2160      |
| 020028 | NYM-J 07X1,5 GR    | RE | 12,1                     | 19,5                   | 42                      | 10,5                   | 101           | 235       |
| 020029 | NYM-J 07X2,5 GR    | RE | 7,41                     | 27                     | 50,4                    | 12,6                   | 168           | 350       |
| 020300 | NYM-J 08X1,5 GR    | RE | 12,1                     | 19,5                   | 50                      | 12,5                   | 115           | 237       |
| 020030 | NYM-J 10X1,5 GR    | RE | 12,1                     | 19,5                   | 57,2                    | 14,3                   | 144           | 330       |
| 020045 | NYM-J 12X1,5 GR    | RE | 12,1                     | 19,5                   | 57,6                    | 14,4                   | 173           | 400       |
| 020307 | NYM-J 16X1,5 GR    | RE | 12,1                     | 19,5                   |                         | 15,8                   | 230           | 457       |
| 020294 | NYM-J 12X2,5 GR    | RE | 7,41                     | 27                     |                         | 15,4                   | 288           | 660       |

Table: Technical characteristics

| p/n    | part name          |    | R <sub>l</sub><br>[Ω/km] | I <sub>bl</sub><br>[A] | R <sub>bv</sub><br>[mm] | D <sub>A</sub><br>[mm] | Cu<br>[kg/km] | G<br>[kg] |
|--------|--------------------|----|--------------------------|------------------------|-------------------------|------------------------|---------------|-----------|
| 020031 | NYM-O 01X1,5 GR    | RE | 12,1                     | 19,5                   | 20,8                    | 5,2                    | 14,4          | 45        |
| 020043 | NYM-O 01X2,5 GR    | RE | 7,41                     | 27                     | 23,2                    | 5,8                    | 24            | 70        |
| 020178 | NYM-O 01X4 GR      | RE | 4,61                     | 36                     | 25,6                    | 6,4                    | 38            | 80        |
| 020177 | NYM-O 01X6 GR      | RE | 3,08                     | 46                     | 27,2                    | 6,8                    | 58            | 105       |
| 020032 | NYM-O 01X10 GR     | RE | 1,83                     | 63                     | 32                      | 8                      | 96            | 155       |
| 020033 | NYM-O 01X16 GR     | RM | 1,15                     | 85                     | 36,4                    | 9,1                    | 154           | 230       |
| 020034 | NYM-O 02X1,5 GR    | RE | 12,1                     | 19,5                   | 31,2                    | 7,8                    | 29            | 115       |
| 020167 | NYM-O 02X1,5/TR GR | RE | 12,1                     | 19,5                   | 31,2                    | 7,8                    | 29            | 115       |
| 020035 | NYM-O 02X2,5 GR    | RE | 7,41                     | 27                     | 35,6                    | 8,9                    | 48            | 157       |
| 020168 | NYM-O 02X2,5/TR GR | RE | 7,41                     | 27                     | 35,6                    | 8,9                    | 48            | 157       |
| 020036 | NYM-O 03X1,5 GR    | RE | 12,1                     | 17,5                   | 32,8                    | 8,2                    | 43            | 135       |
| 020174 | NYM-O 03X1,5/TR GR | RE | 12,1                     | 17,5                   | 32,8                    | 8,2                    | 43            | 135       |
| 020037 | NYM-O 04X1,5 GR    | RE | 12,1                     | 17,5                   | 35,2                    | 8,8                    | 58            | 160       |
| 020175 | NYM-O 04X1,5/TR GR | RE | 12,1                     | 17,5                   | 35,2                    | 8,8                    | 58            | 160       |
| 020046 | NYM-O 04X6 GR      | RE | 3,08                     | 32                     | 53,2                    | 13,3                   | 230           | 460       |
| 020038 | NYM-O 04X10 GR     | RE | 1,83                     | 57                     | 64,4                    | 16,1                   | 384           | 690       |
| 020039 | NYM-O 04X16 GR     | RM | 1,15                     | 76                     | 76                      | 19                     | 614           | 1090      |
| 020040 | NYM-O 04X25 GR     | RM | 0,727                    | 96                     | 93,6                    | 23,4                   | 960           | 1640      |
| 020041 | NYM-O 04X35 GR     | RM | 0,524                    | 119                    | 102,8                   | 25,7                   | 1344          | 2090      |
| 020042 | NYM-O 07X1,5 GR    | RE | 12,1                     | 19,5                   | 42                      | 10,5                   | 101           | 235       |
| 020326 | NYM-O 12X1,5 GR    | RE | 12,1                     | 19,5                   |                         | 14,4                   | 173           | 400       |

|     |                                    |
|-----|------------------------------------|
| RI  | conductor resistance               |
| Ibl | ampacity (in air)                  |
| Rbv | bending radius, fixed installation |
| DA  | outer diameter                     |
| Cu  | copper                             |
| G   | weight                             |