

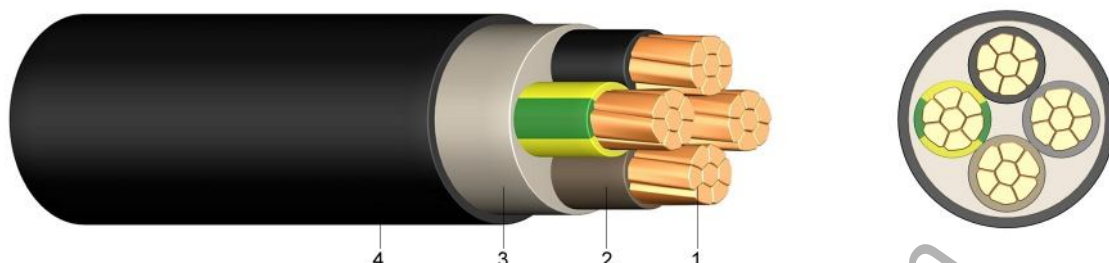
## Datasheet N2XH

Version 1/2009

## Halogen-Free Cable with Improved Fire Behaviour

### Application:

Safety cables are used in all locations where a high degree of protection against fire and fire-damage has to be provided for human life and equipment and are, therefore, subject to high security requirements. These cables may be used indoors and outdoors. They may not be installed directly into the ground and into the water. This cable conforms to Safety Class II standards.



### Construction:

- 1 ..... solid or stranded bare copper
- 2 ..... core insulation of halogen-free, cross-linked polyethylene
- 3 ..... core covering of a halogen-free compound
- 4 ..... outer sheath of halogen-free, cross-linked polymer compound, black

### According to:

DIN VDE 0276-604  
HD 604 S1 part 1 + part 5 G  
DIN EN 60228 class 1 and 2 (construction)  
HD 308 S2 (core identification)

### Technical data:

Nominal voltage U<sub>0</sub>/U

[V]

600 / 1000 Volt

Test voltage

[V]<sub>AC</sub>

4000

Temperature range

in motion

°C

-5 °C till +90 °C

Operating temperature

short circuit

[sec]

250

Short circuit time

max.

[sec]

5

Bending radius

single core style

x diameter

15

multi core style

x diameter

12

Flammability

EN 50266-2-4

EN 60332-1

IEC 60332-3 Kat.C

| Number of cores<br>and nominal<br>cross section<br>mm <sup>2</sup> | Copper<br>figure<br>kg/km | Overall<br>diameter<br>appr.<br>mm | Calorific<br>potential<br>kWh / m | Weight<br>appr.<br>kg / km |
|--------------------------------------------------------------------|---------------------------|------------------------------------|-----------------------------------|----------------------------|
| 1 x 6 RE                                                           | 60                        | 7,8                                | 0,33                              | 112                        |
| 1 x 16 RM                                                          | 160                       | 9,8                                | 0,46                              | 226                        |
| 1 x 25 RM                                                          | 250                       | 11,4                               | 0,62                              | 327                        |
| 1 x 35 RM                                                          | 350                       | 12,6                               | 0,71                              | 429                        |
| 1 x 50 RM                                                          | 500                       | 13,8                               | 0,82                              | 555                        |
| 1 x 70 RM                                                          | 700                       | 15,7                               | 1,00                              | 765                        |
| 1 x 95 RM                                                          | 950                       | 17,4                               | 1,14                              | 1.024                      |
| 1 x 120 RM                                                         | 1.200                     | 19,0                               | 1,32                              | 1.263                      |
| 1 x 150 RM                                                         | 1.500                     | 20,9                               | 1,59                              | 1.542                      |
| 1 x 185 RM                                                         | 1.850                     | 23,1                               | 1,91                              | 1.918                      |
| 1 x 240 RM                                                         | 2.400                     | 25,6                               | 2,24                              | 2.466                      |
| 1 x 300 RM                                                         | 3.000                     | 28,1                               | 2,58                              | 3.065                      |

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|--------------------------------------------------------------------|-------|--|-------------------------------|------------------------------------|---------------------------------------|--------------------------------|
| 2 x 1,5                                                            | RE    |  | 30                            | 9,3                                | 0,45                                  | 125                            |
| 2 x 2,5                                                            | RE    |  | 50                            | 10,1                               | 0,52                                  | 158                            |
| 3 x 1,5                                                            | RE    |  | 45                            | 9,7                                | 0,51                                  | 142                            |
| 3 x 2,5                                                            | RE    |  | 75                            | 10,6                               | 0,59                                  | 184                            |
| 3 x 4                                                              | RE    |  | 120                           | 11,7                               | 0,70                                  | 247                            |
| 3 x 6                                                              | RE    |  | 180                           | 12,8                               | 0,80                                  | 322                            |
| 3 x 10                                                             | RE    |  | 300                           | 14,9                               | 1,02                                  | 480                            |
| 3 x 16                                                             | RM    |  | 480                           | 17,7                               | 1,36                                  | 732                            |
| 3 x 25                                                             | RM    |  | 750                           | 24,0                               | 2,25                                  | 1.200                          |
| 3 x 35                                                             | RM    |  | 1.050                         | 27,0                               | 2,56                                  | 1.600                          |
| 3 x 50                                                             | RM    |  | 1.500                         | 29,0                               | 3,19                                  | 1.800                          |
| 3 x 50/25                                                          | SM/RM |  | 1.750                         | 32,0                               | 3,53                                  | 2.200                          |
| 3 x 70/35                                                          | SM/RM |  | 2.450                         | 37,0                               | 4,31                                  | 2.950                          |
| 3 x 95/50                                                          | SM    |  | 3.216                         | 41,0                               | 5,58                                  | 3.900                          |
| 3 x 120/70                                                         | RM    |  | 4.300                         | 45,0                               | 6,58                                  | 4.800                          |
| 3 x 150/70                                                         | RM    |  | 5.200                         | 49,0                               | 7,64                                  | 5.750                          |
| 3 x 185/95                                                         | RM    |  | 6.500                         | 55,0                               |                                       | 7.200                          |
| 3 x 240/120                                                        | RM    |  | 8.400                         | 62,0                               |                                       | 9.150                          |
| 4 x 1,5                                                            | RE    |  | 60                            | 10,4                               | 0,60                                  | 166                            |
| 4 x 2,5                                                            | RE    |  | 100                           | 11,4                               | 0,69                                  | 220                            |
| 4 x 4                                                              | RE    |  | 160                           | 12,6                               | 0,84                                  | 298                            |
| 4 x 6                                                              | RE    |  | 240                           | 13,8                               | 0,95                                  | 391                            |
| 4 x 10                                                             | RE    |  | 400                           | 16,3                               | 1,26                                  | 599                            |
| 4 x 16                                                             | RM    |  | 640                           | 19,2                               | 1,63                                  | 908                            |
| 4 x 25                                                             | RM    |  | 1.000                         | 23,9                               | 2,48                                  | 1.413                          |
| 4 x 35                                                             | RM    |  | 1.400                         | 26,7                               | 2,93                                  | 1.863                          |
| 4 x 50                                                             | SM    |  | 2.000                         | 29,1                               | 3,76                                  | 2.362                          |
| 4 x 70                                                             | SM    |  | 2.800                         | 32,2                               | 4,55                                  | 3.151                          |
| 4 x 95                                                             | SM    |  | 3.800                         | 37,2                               | 5,72                                  | 4.339                          |
| 4 x 120                                                            | SM    |  | 4.800                         | 40,8                               | 6,36                                  | 5.332                          |
| 4 x 150                                                            | SM    |  | 6.000                         | 50,0                               | 7,14                                  | 6.350                          |
| 5 x 1,5                                                            | RE    |  | 75                            | 11,2                               | 0,71                                  | 195                            |
| 5 x 2,5                                                            | RE    |  | 125                           | 12,3                               | 0,84                                  | 260                            |
| 5 x 4                                                              | RE    |  | 200                           | 13,7                               | 1,00                                  | 357                            |
| 5 x 6                                                              | RE    |  | 300                           | 15,4                               | 1,21                                  | 486                            |
| 5 x 10                                                             | RE    |  | 500                           | 17,8                               | 1,52                                  | 723                            |
| 5 x 16                                                             | RE    |  | 800                           | 21,6                               | 2,17                                  | 1.138                          |
| 5 x 16                                                             | RM    |  | 800                           | 21,6                               | 2,17                                  | 1.138                          |
| 5 x 25                                                             | RM    |  | 1.250                         | 27,0                               | 3,14                                  | 1.420                          |
| 5 x 35                                                             | RM    |  | 1.750                         | 37,0                               | 3,95                                  | 2.400                          |
| 7 x 1,5                                                            | RE    |  | 105                           | 12,0                               | 0,80                                  | 239                            |
| 12 x 1,5                                                           | RE    |  | 180                           | 16,0                               | 1,29                                  | 395                            |
| 19 x 1,5                                                           | RE    |  | 285                           | 18,6                               | 1,80                                  | 557                            |
| 24 x 1,5                                                           | RE    |  | 360                           | 22,2                               | 2,35                                  | 736                            |
| 30 x 1,5                                                           | RE    |  | 450                           | 24,0                               | 2,72                                  | 900                            |
| 7 x 2,5                                                            | RE    |  | 175                           | 15,0                               | 1,31                                  | 400                            |
| 12 x 2,5                                                           | RE    |  | 300                           | 19,0                               | 2,00                                  | 600                            |
| 19 x 2,5                                                           | RE    |  | 475                           | 22,0                               | 2,69                                  | 840                            |
| 24 x 2,5                                                           | RE    |  | 600                           | 25,0                               | 3,28                                  | 1.050                          |
| 7 x 4                                                              | RE    |  | 280                           | 14,9                               | 1,48                                  | 457                            |