

POWER CABLES AND OVERHEAD LINES 0.6/1 kV

# N2XH – B2ca/Cca/ Dca

XLPE/FRNC copper energy cable, halogen-free



## TECHNICAL DATA



**Standard**  
DIN VDE 0276-604



**Rated Voltage**  
0.6/1 kV



**Test Voltage**  
core/core 4 kV / 50 Hz



**Bending radius (min.)**  
12 x  $\phi$  of cable



**Core identification**  
HD 308 S2



**Fire properties**  
EN 60332-1-2: self-extinguishing  
EN 60754-2: halogen-free, non-corrosive  
combustion gases  
EN 61034-2: low smoke emission  
EN 60332-3-22: reduced flame propagation  
EN 13501-6: fire classification  
CPR: B2ca s1 d1/d2 a1



**Certificate**  
VDE Germany



**Temperature range**  
Laying temperature: min. -5°C  
Operating temperature: -50°C up to 90°C  
Conductor temperature: max. 90°C  
Short circuit temperature: max. 250°C

## DESIGN



1 Copper conductor, round solid (RE), round stranded (RM)  
resp. sector-shaped stranded (SM)



2 Core insulation (XLPE)



3 Inner covering (halogen-free tape and halogen free  
polymer compound)



4 Sheath (halogen-free polymer compound black)

| Number of cores x nominal cross-section (mm <sup>2</sup> ) | Max. conductor resistance (Ω/km) | Current rating in the air (A) | Outer diameter appr. (mm) | Total weight appr. (kg/km) | CPR Classification |
|------------------------------------------------------------|----------------------------------|-------------------------------|---------------------------|----------------------------|--------------------|
| 2 x 1.5 RE                                                 | 12.1                             | 28                            | 10.1                      | 139                        | B2ca, Dca          |
| 3 x 1.5 RE                                                 | 12.1                             | 24                            | 10.5                      | 156                        | B2ca, Dca          |
| 4 x 1.5 RE                                                 | 12.1                             | 24                            | 11.2                      | 180                        | B2ca, Dca          |
| 5 x 1.5 RE                                                 | 12.1                             | 18                            | 11.9                      | 202                        | B2ca, Dca          |
| 7 x 1.5 RE                                                 | 12.1                             | 16                            | 12.8                      | 246                        | Dca                |
| 10 x 1.5 RE                                                | 12.1                             | 13                            | 16.9                      | 408                        | Dca                |
| 12 x 1.5 RE                                                | 12.1                             | 12                            | 17.4                      | 442                        | Dca                |
| 14 x 1.5 RE                                                | 12.1                             | 12                            | 18.1                      | 485                        | Dca                |
| 2 x 2.5 RE                                                 | 7.41                             | 37                            | 10.8                      | 172                        | B2ca, Dca          |
| 3 x 2.5 RE                                                 | 7.41                             | 32                            | 11.3                      | 197                        | B2ca, Dca          |
| 4 x 2.5 RE                                                 | 7.41                             | 32                            | 12.1                      | 230                        | B2ca, Dca          |
| 5 x 2.5 RE                                                 | 7.41                             | 24                            | 13.3                      | 273                        | B2ca, Dca          |
| 7 x 2.5 RE                                                 | 7.41                             | 21                            | 14.1                      | 333                        | Dca                |
| 10 x 2.5 RE                                                | 7.41                             | 18                            | 18.5                      | 532                        | Dca                |
| 12 x 2.5 RE                                                | 7.41                             | 16                            | 19.0                      | 584                        | Dca                |
| 14 x 2.5 RE                                                | 7.41                             | 16                            | 19.8                      | 645                        | Dca                |
| 2 x 4 RE                                                   | 4.61                             | 48                            | 11.6                      | 210                        | B2ca, Dca          |
| 3 x 4 RE                                                   | 4.61                             | 42                            | 12.3                      | 251                        | B2ca, Dca          |
| 4 x 4 RE                                                   | 4.61                             | 42                            | 13.4                      | 304                        | B2ca, Dca          |
| 5 x 4 RE                                                   | 4.61                             | 32                            | 14.4                      | 356                        | B2ca, Dca          |
| 7 x 4 RE                                                   | 4.61                             | 27                            | 15.4                      | 442                        | Dca                |
| 12 x 4 RE                                                  | 4.61                             | 21                            | 21.1                      | 789                        | Dca                |
| 14 x 4 RE                                                  | 4.61                             | 21                            | 22.0                      | 878                        | Dca                |
| 2 x 6 RE                                                   | 3.08                             | 60                            | 12.5                      | 266                        | B2ca, Dca          |
| 3 x 6 RE                                                   | 3.08                             | 53                            | 13.5                      | 329                        | B2ca, Dca          |
| 4 x 6 RE                                                   | 3.08                             | 53                            | 14.4                      | 391                        | B2ca, Dca          |
| 5 x 6 RE                                                   | 3.08                             | 39                            | 15.8                      | 467                        | B2ca, Dca          |
| 7 x 6 RE                                                   | 3.08                             | 34                            | 16.9                      | 590                        | Dca                |
| 2 x 10 RE                                                  | 1.83                             | 85                            | 15.8                      | 438                        | B2ca, Dca          |
| 3 x 10 RE                                                  | 1.83                             | 74                            | 16.6                      | 528                        | B2ca, Dca          |
| 4 x 10 RE                                                  | 1.83                             | 74                            | 17.8                      | 637                        | B2ca, Dca          |
| 5 x 10 RE                                                  | 1.83                             | 49                            | 19.6                      | 773                        | B2ca, Dca          |
| 5 x 10 RM                                                  | 1.83                             | 49                            | 20.1                      | 798                        | B2ca, Dca          |
| 7 x 10 RE                                                  | 1.83                             | 49                            | 21.0                      | 971                        | Dca                |
| 1 x 16 RM                                                  | 1.15                             | 131                           | 12.7                      | 297                        | B2ca, Cca          |
| 2 x 16 RE                                                  | 1.15                             | 113                           | 17.6                      | 595                        | B2ca, Dca          |
| 3 x 16 RE                                                  | 1.15                             | 98                            | 18.5                      | 733                        | B2ca, Dca          |
| 3 x 16 RM                                                  | 1.15                             | 98                            | 19.0                      | 758                        | B2ca               |
| 4 x 16 RE                                                  | 1.15                             | 98                            | 20.3                      | 911                        | B2ca, Dca          |
| 4 x 16 RM                                                  | 1.15                             | 98                            | 20.9                      | 941                        | B2ca, Dca          |
| 5 x 16 RE                                                  | 1.15                             | 74                            | 22.0                      | 1092                       | B2ca, Dca          |
| 5 x 16 RM                                                  | 1.15                             | 74                            | 22.6                      | 1119                       | Dca                |
| 1 x 25 RM                                                  | 0.727                            | 177                           | 14.3                      | 409                        | B2ca, Cca          |
| 3 x 25 RM                                                  | 0.727                            | 133                           | 23.2                      | 1153                       | B2ca, Dca          |



| Number of cores x nominal cross-section (mm <sup>2</sup> ) | Max. conductor resistance (Ω/km) | Current rating in the air (A) | Outer diameter appr. (mm) | Total weight appr. (kg/km) | CPR Classification |
|------------------------------------------------------------|----------------------------------|-------------------------------|---------------------------|----------------------------|--------------------|
| 3 x 25 + 16 RM/RM                                          | 0.727 / 1.15                     | 133                           | 24.3                      | 1317                       | B2ca, Dca          |
| 4 x 25 RM                                                  | 0.727                            | 133                           | 25.2                      | 1415                       | B2ca, Dca          |
| 5 x 25 RM                                                  | 0.727                            | 100                           | 27.6                      | 1718                       | B2ca, Dca          |
| 1 x 35 RM                                                  | 0.524                            | 217                           | 15.5                      | 520                        | B2ca, Cca          |
| 3 x 35 RM                                                  | 0.524                            | 162                           | 25.5                      | 1488                       | B2ca, Dca          |
| 3 x 35 + 16 SM/RM                                          | 0.524 / 1.15                     | 162                           | 25.4                      | 1552                       | B2ca, Cca          |
| 4 x 35 RM                                                  | 0.524                            | 162                           | 27.9                      | 1853                       | B2ca, Dca          |
| 4 x 35 SM                                                  | 0.524                            | 162                           | 25.4                      | 1665                       | B2ca, Cca          |
| 5 x 35 RM                                                  | 0.524                            | 122                           | 30.5                      | 2237                       | B2ca, Dca          |
| 1 x 50 RM                                                  | 0.387                            | 265                           | 16.9                      | 655                        | B2ca, Cca          |
| 3 x 50 + 25 SM/RM                                          | 0.387 / 0.727                    | 197                           | 28.7                      | 2046                       | B2ca, Cca          |
| 4 x 50 SM                                                  | 0.387                            | 197                           | 28.9                      | 2186                       | B2ca, Cca          |
| 4 x 50 RM                                                  | 0.387                            | 197                           | 31.5                      | 2429                       | B2ca, Dca          |
| 5 x 50 RM                                                  | 0.387                            | 148                           | 34.8                      | 2984                       | B2ca, Dca          |
| 1 x 70 RM                                                  | 0.268                            | 336                           | 18.9                      | 875                        | B2ca, Cca          |
| 3 x 70 SM                                                  | 0.268                            | 250                           | 29.9                      | 2361                       | B2ca, Cca          |
| 3 x 70 + 35 SM/RM                                          | 0.268 / 0.524                    | 250                           | 32.6                      | 2845                       | B2ca, Cca          |
| 4 x 70 SM                                                  | 0.268                            | 250                           | 32.6                      | 3049                       | B2ca, Cca          |
| 5 x 70 RM                                                  | 0.268                            | 188                           | 39.9                      | 4115                       | Dca                |
| 1 x 95 RM                                                  | 0.193                            | 415                           | 20.6                      | 1136                       | B2ca, Cca          |
| 3 x 95 SM                                                  | 0.193                            | 308                           | 32.7                      | 3131                       | B2ca, Cca          |
| 3 x 95 + 50 SM/RM                                          | 0.193 / 0.387                    | 308                           | 37.0                      | 3800                       | B2ca, Cca          |
| 4 x 95 SM                                                  | 0.193                            | 308                           | 37.0                      | 4080                       | B2ca, Cca          |
| 1 x 120 RM                                                 | 0.153                            | 485                           | 22.3                      | 1397                       | B2ca, Cca          |
| 3 x 120 SM                                                 | 0.153                            | 359                           | 35.5                      | 3848                       | B2ca, Cca          |
| 3 x 120 + 70 SM/RM                                         | 0.153 / 0.268                    | 359                           | 40.5                      | 4748                       | B2ca, Cca          |
| 4 x 120 SM                                                 | 0.153                            | 359                           | 40.9                      | 5111                       | B2ca, Cca          |
| 1 x 150 RM                                                 | 0.124                            | 557                           | 24.2                      | 1684                       | B2ca, Cca          |
| 3 x 150 SM                                                 | 0.124                            | 412                           | 39.7                      | 4753                       | B2ca, Cca          |
| 3 x 150 + 70 SM/RM                                         | 0.124 / 0.268                    | 412                           | 45.5                      | 5774                       | B2ca, Cca          |
| 4 x 150 SM                                                 | 0.124                            | 412                           | 45.7                      | 6253                       | B2ca, Cca          |
| 1 x 185 RM                                                 | 0.099                            | 646                           | 26.5                      | 2068                       | B2ca, Cca          |
| 3 x 185 SM                                                 | 0.099                            | 475                           | 43.5                      | 5863                       | B2ca, Cca          |
| 3 x 185 + 95 SM/SM                                         | 0.099 / 0.193                    | 475                           | 46.0                      | 6881                       | B2ca, Cca          |
| 4 x 185 SM                                                 | 0.099                            | 475                           | 51.1                      | 7790                       | B2ca, Cca          |
| 1 x 240 RM                                                 | 0.075                            | 774                           | 29.1                      | 2629                       | B2ca, Cca          |
| 3 x 240 SM                                                 | 0.075                            | 564                           | 48.5                      | 7583                       | B2ca, Cca          |
| 3 x 240 + 120 SM/SM                                        | 0.075 / 0.153                    | 564                           | 51.8                      | 8851                       | B2ca, Cca          |
| 4 x 240 SM                                                 | 0.075                            | 564                           | 56.5                      | 10018                      | B2ca, Cca          |
| 1 x 300 RM                                                 | 0.060                            | 901                           | 31.6                      | 3219                       | B2ca, Cca          |
| 1 x 400 RM                                                 | 0.047                            | 1060                          | 35.3                      | 4058                       | B2ca, Cca          |
| 1 x 500 RM                                                 | 0.037                            | 1252                          | 39.1                      | 5132                       | B2ca, Cca          |



**CONTACT PERSON**

**Ing. Štěpán Laštůvka**  
Product Supervisor  
+420 732 912 682  
[stepan.lastuvka@prakab.com](mailto:stepan.lastuvka@prakab.com)

