## NHXCH E 30

# Halogen-free Cable with Concentric Conductor and Circuit Integrity of 30 Minutes

according to DIN VDE 0266-2 and DIN 4102-12

**Construction**

Solid or stranded bare copper conductor, insulation of a halogen-free cross-linked polymeric compound, common core covering, concentric conductor formed by copper wires with counter helix of copper tape, outer sheath of flame retardant and halogen-free polymer compound, orange.

**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. Safety cables are considered as protectively insulated.
Circuit integrity of 30 minutes (system) and insulation integrity of 180 minutes.

**Temperature range**

| | |
|---|---|
| During laying | - 5°C till + 70°C |
| After laying | - 40°C till + 70°C |
| Admissible conductor temperature | + 90°C |

| Number of cores and nominal cross section | Price | Copper figure | Conductor construction (approx. value) | Overall diameter | Weight |
|---|---|---|---|---|---|
| mm² | EUR / km | kg / km | mm | ca. mm | ca. kg / km |
| **NHXCH E 30** 0,6/1 KV | | | | | |
| 2 x 1,5 RE / 1,5 | **5.857,55** | 54 | 1 x 1,38 | 15,0 | 250 |
| 2 x 2,5 RE / 2,5 | **6.529,82** | 83 | 1 x 1,78 | 16,0 | 280 |
| 3 x 1,5 RE / 1,5 | **6.699,82** | 73 | 1 x 1,38 | 15,0 | 250 |
| 3 x 2,5 RE / 2,5 | 7.271,59 | 113 | 1 x 1,78 | 16,0 | 320 |
| 3 x 4 RE / 4 | 8.903,84 | 168 | 1 x 2,25 | 17,0 | 400 |
| 3 x 6 RE / 6 | 11.426,70 | 250 | 1 x 2,76 | 18,0 | 500 |
| 3 x 10 RE / 10 | 14.089,97 | 425 | 1 x 3,56 | 20,0 | 750 |
| 3 x 16 RE / 16 | 17.824,81 | 670 | 1 x 4,51 | 23,0 | 1100 |
| 3 x 25 RM / 16 | 24.641,81 | 940 | 7 x 2,13 | 27,0 | 1500 |
| 3 x 35 RM / 16 | 32.382,37 | 1240 | 7 x 2,52 | 30,0 | 1900 |
| 3 x 50 RM / 25 | 40.243,49 | 1795 | 19 x 1,83 | 33,0 | 2300 |
| 3 x 70 RM / 35 | 52.894,86 | 2510 | 19 x 2,17 | 38,0 | 3200 |
| 3 x 95 RM / 50 | 67.658,88 | 3433 | 19 x 2,52 | 44,0 | 4200 |
| 3 x 120 RM / 70 | 85.473,87 | 4413 | 37 x 2,03 | 48,0 | 5350 |
| 3 x 150 RM / 70 | 98.816,26 | 5313 | 37 x 2,27 | 53,0 | 6400 |
| 3 x 185 RM / 95 | 122.671,01 | 6649 | 37 x 2,52 | 58,0 | 7900 |
| 3 x 240 RM / 120 | 136.990,97 | 8585 | 61 x 2,24 | 65,0 | 9800 |

| Number of cores and nominal cross section | Price | Copper figure | Conductor construction (approx. value) | Overall diameter | Weight |
|---|---|---|---|---|---|
| mm² | EUR / km | kg / km | mm | ca. mm | ca. kg / km |
| **NHXCH E 30** 0,6/1 KV | | | | | |
| 4 x 1,5 RE / 1,5 | 7.548,30 | 88 | 1 x 1,38 | 17,0 | 300 |
| 4 x 2,5 RE / 2,5 | 8.327,70 | 138 | 1 x 1,78 | 18,0 | 400 |
| 4 x 4 RE / 4 | 10.308,48 | 208 | 1 x 2,25 | 19,0 | 470 |
| 4 x 6 RE / 6 | 12.757,73 | 309 | 1 x 2,76 | 21,0 | 600 |
| 4 x 10 RE / 10 | 18.428,73 | 525 | 1 x 3,56 | 23,0 | 850 |
| 4 x 16 RE / 16 | **24.306,78** | 829 | 1 x 4,51 | 26,0 | 1250 |
| 4 x 25 RM / 16 | **30.981,19** | 1190 | 7 x 2,13 | 30,0 | 1800 |
| 4 x 35 RM / 16 | **37.407,43** | 1590 | 7 x 2,52 | 33,0 | 2300 |
| 4 x 50 RM / 25 | **45.269,59** | 2295 | 19 x 1,83 | 37,0 | 3000 |
| 4 x 70 RM / 35 | **55.945,41** | 3210 | 19 x 2,17 | 42,0 | 4200 |
| 4 x 95 RM / 50 | **74.700,39** | 4383 | 19 x 2,52 | 47,0 | 5700 |
| 4 x 120 RM / 70 | **97.413,70** | 5613 | 37 x 2,03 | 53,0 | 7200 |
| 4 x 150 RM / 70 | 114.792,84 | 6813 | 37 x 2,27 | 58,0 | 8700 |
| 4 x 185 RM / 95 | 141.217,86 | 8499 | 37 x 2,52 | 65,0 | 10500 |
| 4 x 240 RM / 120 | 168.940,97 | 10985 | 61 x 2,24 | 70,0 | 14000 |
| 7 x 1,5 RE / 2,5 | 10.724,90 | 139 | 1 x 1,38 | 18,0 | 480 |
| 10 x 1,5 RE / 2,5 | 14.708,74 | 183 | 1 x 1,38 | 22,0 | 630 |
| 12 x 1,5 RE / 2,5 | 17.224,89 | 214 | 1 x 1,38 | 22,0 | 700 |
| 16 x 1,5 RE / 4 | 21.406,14 | 280 | 1 x 1,38 | 23,0 | 850 |
| 21 x 1,5 RE / 4 | 27.810,60 | 384 | 1 x 1,38 | 25,0 | 1050 |
| 24 x 1,5 RE / 6 | 31.703,14 | 430 | 1 x 1,38 | 29,0 | 1200 |
| 30 x 1,5 RE / 6 | 35.483,50 | 520 | 1 x 1,38 | 31,0 | 1400 |
| 7 x 2,5 RE / 2,5 | 12.739,32 | 208 | 1 x 1,78 | 20,0 | 600 |
| 10 x 2,5 RE / 4 | 16.853,64 | 298 | 1 x 1,78 | 24,0 | 800 |
| 12 x 2,5 RE / 4 | 19.541,08 | 348 | 1 x 1,78 | 24,0 | 900 |
| 16 x 2,5 RE / 6 | 23.421,14 | 470 | 1 x 1,78 | 26,0 | 1100 |
| 21 x 2,5 RE / 6 | 29.039,14 | 595 | 1 x 1,78 | 29,0 | 1350 |
| 24 x 2,5 RE / 10 | 35.195,31 | 725 | 1 x 1,78 | 32,0 | 1500 |
| 30 x 2,5 RE / 10 | 41.473,32 | 875 | 1 x 1,78 | 34,0 | 1800 |

**Remark:** Insulation integrity under the impact of flames > 180 min. according to DIN VDE 0472-814 / 8.83
function integrity of electrical cable installations > 30 min. according to DIN 4102-12.
in compliance with VDE 0107 and 0108.