

FRNC rubber cable NSHXAFOE

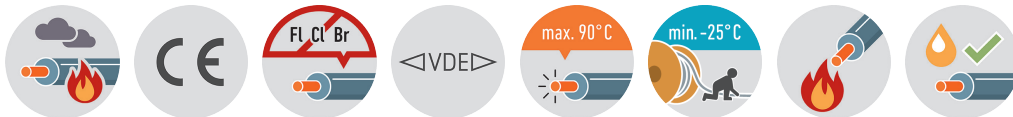


Application: This insulated wire is designed for application in buses and rail-borne vehicles. If used in distribution or switching appliances up to 1000 V, it is considered to be short circuit-proof and earth leakage-proof. The cable is halogen-free, flame-retardant and resistant to most oils and grease.

Remark on REACH: The following substances from the REACH candidate list are used for all products on this datasheet with a proportion of more than 0.1 %:
CAS 85535-85-9

Construction and technical data:

| | |
|--|--------------------------------|
| CPR-classification according to EN 50575: | Eca |
| Standard: | VDE 0250 T. 606 |
| Conductor material: | tinned copper |
| Conductor construction: | Class 5 = flexible |
| Insulation: | rubber (EPR) 3GI3 |
| Sheathing material: | FRNC-compound HM3 |
| Flame-retardant: | VDE 0482-332-1-2/IEC 60332-1-2 |
| Smoke density: | DIN EN 61034/IEC 61034 |
| Halogen-free: | DIN EN 50267/IEC 60754 |
| Oil-resistant: | EN 60811-404 |
| Max. temperature at conductor, °C: | 90 °C |
| Permitted outer cable temperature, fixed, °C: | -40 - +70 °C |
| Permitted outer cable temperature, moved, °C: | -25 - +70 °C |



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.

NSHXAFOE 1.8/3 kV**Nominal voltage U_o:** 1.8 kV**Nominal voltage U:** 3 kV**Max. operating voltage DC (core-earth/core-core):** 2,7/5,4 kV**Test voltage:** 6 kV

| part no. | part name | RI [Ohm/km] | Ibl [A] | Ik [kA] | Rbv [mm] | Rbb [mm] | Ø [mm] | Fzv [N] | Cu | G [kg] |
|----------|---------------------------|-------------|---------|---------|----------|----------|--------|---------|-------|--------|
| 050476 | 1X1.5 | 13.7 | 30 | 0.21 | 36 | 60 | 6 | 21 | 14.4 | 60 |
| 050477 | 1X2.5 | 8.21 | 41 | 0.35 | 39 | 65 | 6.5 | 41 | 24 | 70 |
| 050379 | 1X4 | 5.09 | 55 | 0.57 | 42 | 70 | 7 | 60 | 38.4 | 85 |
| 050380 | 1X6 | 3.39 | 70 | 0.85 | 45 | 75 | 7.5 | 90 | 57.6 | 110 |
| 050381 | 1X10 | 1.95 | 98 | 1.43 | 54 | 90 | 9 | 150 | 96 | 160 |
| 050382 | 1X16 | 1.24 | 132 | 2.28 | 63 | 105 | 10.5 | 240 | 153.6 | 240 |
| 050383 | 1X25 | 0.795 | 176 | 3.57 | 75 | 125 | 12.5 | 375 | 240 | 365 |
| 050376 | 1X35 | 0.565 | 219 | 5 | 81 | 135 | 13.5 | 525 | 336 | 494 |
| 050377 | 1X50 | 0.393 | 276 | 7.15 | 93 | 155 | 15.5 | 750 | 480 | 656 |
| 050353 | 1X70 | 0.277 | 347 | 10.01 | 105 | 175 | 17.5 | 1050 | 672 | 880 |
| 050356 | 1X95 | 0.21 | 416 | 13.58 | 123 | 205 | 20.5 | 1425 | 912 | 1090 |
| 050355 | 1X120 | 0.164 | 488 | 17.16 | 129 | 215 | 21.5 | 1800 | 1152 | 1340 |
| 050384 | 1X150 | 0.132 | 566 | 21.45 | 141 | 235 | 23.5 | 2250 | 1440 | 1640 |
| 050385 | 1X185 | 0.108 | 644 | 26.45 | 153 | 255 | 25.5 | 2775 | 1776 | 2160 |
| 050386 | 1X240 | 0.0817 | 775 | 34.32 | 168 | 280 | 28 | 3600 | 2304 | 2570 |
| 050654 | 1X300 | 0.0654 | 898 | 42.9 | 189 | 315 | 31.5 | 4500 | 2890 | 3470 |
| 050892 | 1X500 (with reference to) | 0.0391 | 1250 | 71.5 | 261 | 435 | 43.5 | 7500 | 4800 | 5860 |

| | |
|-----|--|
| RI | Conductor resistance |
| Ibl | Ampacity in air (30 °C) |
| Ik | Short-circuit current (1 s) |
| Rbv | Bending radius, fixed installation |
| Rbb | Bending radius, moving application |
| Ø | outer diameter approx. |
| Fzv | Tensile strength (during installation) |
| Cu | Copper weight (GER) |
| G | net weight per 1000 |