# SE-N1XE-U

## Copper power cable

## 0,6/1 (1,2) kV

EN 50575 CPR F ca

## Application

Copper power cable for fixed installations indoors and outdoors. May be buried directly in soil, also by ploughing. The conductor insulation must be protected against UV-radiation. Installations must be in accordance with national regulations and rules of installations. The cable is halogen-free, but without fire protection.

## Design

| | |
|---|---|
| **Standards** | SEK TS 424 14 18-1, HD 603 5 O |
| **Reaction to fire** | Fca; EN 13501-6, EN 50575:2014+A1:2016 |
| **Conductor** | Circular solid copper, EN/IEC 60228 class 1 |
| **Insulation** | Cross-linked polyethylene XLPE |
| **Core Identification** | Yellow-green, brown, black, grey<br>Yellow-green, blue, brown, black, grey |
| **Inner covering** | Plastic tape |
| **Oversheath** | UV-protected polyethylene compound PELLD , Black |

## Temperature limits

| | |
|---|---|
| **Max. conductor temperature °C** | 90 |
| **Max. cond. temp. short circuit max. 5 s °C** | 250 |
| **Min. cable temperature during operation °C** | -40 |
| **Min. cable temperature during handling °C** | -15 |
| **Min. cable temperature during transport °C** | -40 |

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| Technical information | 5G10 BK |
|---|---|
| **Product code** | **1255296** |
| Nominal cable diameter mm | 19 |
| Nominal cable weight kg/km | 728 |
| Nominal weight of copper kg/km | 442 |
| Nominal Insulation thicness mm | 0,7 |
| Nominal thickness of oversheath mm | 1,8 |
| **Maximum forces during installation when pulling by** | |
| Max. pulling force by pulling-eye kN | 2,5 |
| Max. pulling force by pulling-stocking kN | 0,8 |
| **Minimum bending radii** | |
| Minimum bending radius, handling mm | 227 |
| Minimum bending radius, final bending mm | 159 |
| **Minimum bending radii** | |
| During handling and installation, cable cm | 23 |
| In final installation, cable cm | 16 |
| **Minimum bending radii** | |
| During handling and installation, cable m | 0,23 |
| In final installation, cable m | 0,16 |
| **DC resistance** | |
| Max. DC resistance of conductor at 20 °C Ω/km | 1,83 |

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| Technical information | 5G10 BK |
|---|---|
| **Current ratings** | |
| **Cables in air (25 °C)** | |
| two loaded conductor, conductor 70 °C A | 73 |
| three loaded conductor, conductor 70 °C A | 62 |
| two loaded conductor, conductor 90 °C A | 89 |
| three loaded conductor, conductor 90 °C A | 78 |
| **Cables in air (30 °C)** | |
| two loaded conductor, conductor 70 °C A | 70 |
| three loaded conductor, conductor 70 °C A | 60 |
| two loaded conductor, conductor 90 °C A | 86 |
| three loaded conductor, conductor 90 °C A | 75 |
| **Cables in the ground (15 °C and 1,0 K.m/W), Installation depth 0,7 m** | |
| Cables in the ground, conductor 65 °C A | 77 |
| **Cables in the ground (20 °C and 2,5 K.m/W), Installation depth 0,7 m** | |
| Cables in the ground, conductor 90 °C A | 65 |
| **Maximum thermal short circuit current during 1 s** | |
| Phase (initial 65 °C, final 250 °C) kA | 1,6 |
| Phase (initial 90 °C, final 250 °C) kA | 1,4 |

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| STANDARD PACKAGES | 5G10 BK |
|---|---|
| Product code | 1255296 |
| GTIN code | 6438176218938 |
| Package | 500 K9 |

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