

CU/XLPE/PVC BS 7889

Type Approved Certificates

BASEC

0.6/1 kV

Application

These cables have a low dielectric loss, used in energy networks with sudden load changes. Installed mainly in residential or industrial areas. May be laid outdoors, underground or in ducts. General wiring.

Max core temperature : 90°C

Design

1 Conductor

Stranded annealed bare copper Class 2

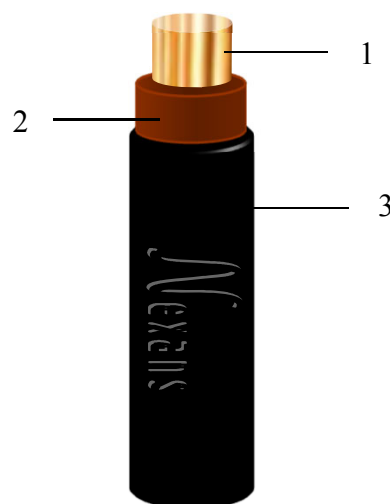
2 Insulation

XLPE

3 Outer sheath

PVC

Black



Marking:

ELECTRIC CABLE 600/1000 V BS 7889 H NEXANS i Nb. of cores x cross section "YEAR" BASEC

Core identification

1x: Brown, blue

Standards

BS 7889
EN 60228
IEC 60332-1-2



Bendign radius: 6D



Flame retardant
IEC 60332-1-2



Max conductor
temp: 90°C



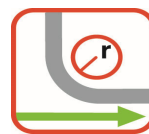
-20 °C +60 °C

| Cables | Diameter (mm) | Current Ratings (A) | | Voltage Drop (V/A/km) | Weight (kg/km) |
|-------------------------------------|---------------|---------------------|--------|-----------------------|----------------|
| | Outer | Air | Ground | DC | |
| CU/XLPE/PVC 1x1.5 mm ² | 5.6 | --- | 23 | 30.8 | 45 |
| CU/XLPE/PVC 1x2.5 mm ² | 6 | --- | 30 | 18.9 | 55 |
| CU/XLPE/PVC 1x4 mm ² | 6.6 | --- | 39 | 11.8 | 75 |
| CU/XLPE/PVC 1x6 mm ² | 7.2 | --- | 49 | 7.9 | 100 |
| CU/XLPE/PVC 1x10 mm ² | 7.8 | --- | 65 | 4.7 | 140 |
| CU/XLPE/PVC 1x16 mm ² | 8.8 | --- | 84 | 2.9 | 200 |
| CU/XLPE/PVC 1x25 mm ² * | 10.4 | 135 | 107 | 1.85 | 300 |
| CU/XLPE/PVC 1x25 mm ² | 10.3 | 135 | 107 | 1.85 | 300 |
| CU/XLPE/PVC 1x35 mm ² * | 11.4 | 169 | 129 | 1.34 | 400 |
| CU/XLPE/PVC 1x35 mm ² | 11.3 | 169 | 129 | 1.34 | 400 |
| CU/XLPE/PVC 1x50 mm ² * | 12.8 | 207 | 153 | 0.99 | 500 |
| CU/XLPE/PVC 1x50 mm ² * | 13.6 | 207 | 153 | 0.99 | 550 |
| CU/XLPE/PVC 1x50 mm ² | 12.7 | 207 | 153 | 0.99 | 500 |
| CU/XLPE/PVC 1x70 mm ² * | 14.6 | 268 | 188 | 0.68 | 700 |
| CU/XLPE/PVC 1x70 mm ² | 14.5 | 268 | 188 | 0.68 | 700 |
| CU/XLPE/PVC 1x95 mm ² * | 17.2 | 328 | 226 | 0.49 | 1000 |
| CU/XLPE/PVC 1x95 mm ² | 16.2 | 328 | 226 | 0.49 | 950 |
| CU/XLPE/PVC 1x120 mm ² * | 19.2 | 383 | 257 | 0.39 | 1200 |
| CU/XLPE/PVC 1x120 mm ² | 18 | 383 | 257 | 0.39 | 1200 |
| CU/XLPE/PVC 1x150 mm ² * | 21.3 | 444 | 287 | 0.32 | 1500 |
| CU/XLPE/PVC 1x150 mm ² | 19.8 | 444 | 287 | 0.32 | 1500 |
| CU/XLPE/PVC 1x185 mm ² | 21.8 | 510 | 324 | 0.25 | 1800 |
| CU/XLPE/PVC 1x240 mm ² | 24.7 | 607 | 375 | 0.19 | 2500 |
| CU/XLPE/PVC 1x240 mm ² * | 26.1 | 607 | 375 | 0.19 | 2500 |
| CU/XLPE/PVC 1x300 mm ² | 27.2 | 703 | 419 | 0.15 | 3000 |
| CU/XLPE/PVC 1x300 mm ² * | 28.8 | 703 | 419 | 0.15 | 3000 |
| CU/XLPE/PVC 1x400 mm ² | 30.6 | 823 | 464 | 0.12 | 3750 |
| CU/XLPE/PVC 1x400 mm ² * | 32.3 | 823 | 464 | 0.12 | 3750 |
| CU/XLPE/PVC 1x500 mm ² | 34.4 | 946 | 524 | 0.09 | 4750 |
| CU/XLPE/PVC 1x500 mm ² * | 36.3 | 946 | 524 | 0.09 | 5000 |
| CU/XLPE/PVC 1x630 mm ² | 39.1 | 1088 | 595 | 0.07 | 6250 |
| CU/XLPE/PVC 1x630 mm ² * | 41.6 | 1088 | 595 | 0.07 | 6250 |
| CU/XLPE/PVC 1x800 mm ² | 46.4 | 1119 | 625 | 0.06 | 8250 |
| CU/XLPE/PVC 1x1000 mm ² | 51.3 | 1214 | --- | 0.04 | 10000 |

Current rating general conditions

The data are indicated for continuous duty operation and apply to

- Maximum conductor temperature = 90 °C
- Nominal frequencies =50 or 60 Hz
- One cable in free air (on perforated trays)
- Ambient temperature = 30 °C



Minimum Bending Radius

After placed in position, fixed: 6 x D

During installation: 6 x D

Voltage drop

The data are based on cos q=1

And refer to BS 7671

For other laying conditions refer to the above standard

*Special conductor diameters