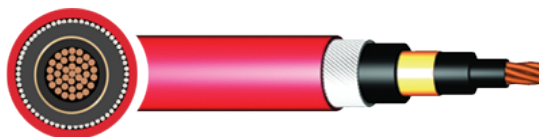


## BS6622 Single Core Mains Cable 11kV - CU, XLPE, AWA, PVC - 50mm<sup>2</sup> to 630mm<sup>2</sup>



### Description

Armoured Cable, 11KV single copper core power cable - Suitable for power networks, underground, outdoors and installation in cable ducting. Please note: the red outer sheath can be prone to fading when exposed to UV rays.

### Key Features



#### Voltage Rating

6.35/11kV Tested To Voltage And Duration of BS 6622



#### Minimum Bending Radius

15 x Overall Diameter



#### Flame Retardancy

BS EN 60332-1-2



#### Temperature Limits

Maximum conductor operating temperature: 90°C

Initial temperature at S.C.C for metallic screen: 80°C

Maximum conductor temperature during short circuit: 250°C

### Core Colours

Sheath Colour: Red or Black

#### Single Core

Brown

### Standards

- BS6622
- IEC 60502-2
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228

### Construction

- **Conductor:** Class 2 stranded copper conductor
- **Insulation:** Cross Linked polyethylene (XLPE)
- **Insulation Screen:** Strippable Extruded Semi Conductor
- **Bedding:** Polyvinyl Chloride (PVC)
- **Metallic Screen:** Individual or overall copper tape screen
- **Separator:** Copper Tape with 10% overlap
- **Armour:** Aluminium Wire Armour (AWA)
- **Outer Sheath:** Polyvinyl Chloride (PVC)

### QA Lab

#### Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



### CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



### Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



#### ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis

BS6622 Single Core Mains Cable 11kV - CU, XLPE, AWA, PVC - 50mm² to 630mm² - Dimensions

| Reference | Conductor Size (mm2) | No Of Cores | Stranding(mm) | Overall Diameter(mm) | Weight(Kg/Km) | Trefoil Cleat | Nylon Cleat Size |
|-----------|----------------------|-------------|---------------|----------------------|---------------|---------------|------------------|
| 10001     | 50                   | 1           | 19/1.78       | 28.7                 | 1200          | 376AC04       | 12               |
| 10002     | 70                   | 1           | 19/2.14       | 30.5                 | 1461          | 376AC05       | 14               |
| 10003     | 95                   | 1           | 19/2.52       | 32.2                 | 1761          | 376AC06       | 14               |
| 10004     | 120                  | 1           | 37/2.03       | 33.8                 | 2049          | 376AC07       | 14               |
| 10005     | 150                  | 1           | 37/2.25       | 36.2                 | 2451          | 376AC08       | 16               |
| 10006     | 185                  | 1           | 37/2.52       | 37.9                 | 2848          | 376AC09       | 16               |
| 10007     | 240                  | 1           | 61/2.25       | 40.4                 | 3470          | 376AC11       | 16               |
| 10008     | 300                  | 1           | 61/2.52       | 42.6                 | 4103          | 376AC12       | 18               |
| 10009     | 400                  | 1           | 61/2.85       | 45.6                 | 4995          | 376AC14       | 18               |
| 10010     | 500                  | 1           | 61/3.20       | 50                   | 6320          | 376AC17       | 20               |
| 10011     | 630                  | 1           | 127/2.52      | 54                   | 7840          | 376AC19       | TC9              |



11KV SINGLE CORE ELECTRICAL CHARACTERISTICS

| CONDUCTOR SIZE  | MAX DC RESISTANCE AT 20°C | CONDUCTOR AC RESISTANCE AT MAX OPERATING TEMPERATURE AND 50hz | CAPACITANCE | CHARGING CURRENT | DIELECTRIC LOSSES | RESISTANCE AT 50HZ | CONDUCTOR S.C.C FOR 1 SEC | SCREEN S.C.C FOR 1 SEC | CURRENT RATING |              |                  |
|-----------------|---------------------------|---|-------------|------------------|-------------------|--------------------|---------------------------|------------------------|----------------|--------------|------------------|
|                 |                           |   |             |                  |                   |                    |                           |                        | LAID IN GROUND | LAID IN DUCT | LAID IN FREE AIR |
| MM <sup>2</sup> | (Ω/km)                    | (Ω/km)  | mf/km       | (A/km)           | (W/km)            | (Ω/km)             | (KA)                      | (KA)                   | AMPS           | AMPS         | AMPS             |
| 70              | 0.268                     | 0.342   | 0.303       | 0.605            | 15.35             | 0.127              | 10.01                     | 0.3                    | 277            | 227          | 313              |
| 95              | 0.193                     | 0.247   | 0.332       | 0.662            | 16.81             | 0.122              | 13.585                    | 0.3                    | 329            | 277          | 376              |
| 120             | 0.153                     | 0.196   | 0.362       | 0.723            | 18.37             | 0.119              | 17.16                     | 0.3                    | 370            | 308          | 430              |
| 150             | 0.124                     | 0.159   | 0.397       | 0.793            | 20.15             | 0.115              | 21.45                     | 0.4                    | 412            | 345          | 484              |
| 185             | 0.0991                    | 0.128   | 0.43        | 0.859            | 21.81             | 0.111              | 26.455                    | 0.4                    | 460            | 390          | 546              |
| 240             | 0.0754                    | 0.098   | 0.483       | 0.964            | 24.47             | 0.107              | 34.32                     | 0.4                    | 520            | 451          | 629              |
| 300             | 0.0601                    | 0.078   | 0.535       | 1.068            | 27.13             | 0.103              | 42.9                      | 0.5                    | 571            | 507          | 708              |
| 400             | 0.047                     | 0.062   | 0.592       | 1.181            | 30                | 0.101              | 57.2                      | 0.5                    | 609            | 564          | 777              |
| 500             | 0.0366                    | 0.049   | 0.666       | 33.76            | 33.76             | 0.097              | 71.5                      | 0.6                    | 661            | 631          | 863              |
| 630             | 0.0283                    | 0.039   | 0.76        | 1.516            | 38.51             | 0.095              | 90.09                     | 0.6                    | 707            | 698          | 945              |
| 800             | 0.0221                    | 0.032   | 0.849       | 1.694            | 43.03             | 0.092              | 114.4                     | 0.7                    | 750            | 764          | 1032             |

**Electrical Data:**

Maximum conductor operating temperature:  
Maximum screen operating temperature:  
Maximum conductor temperature during S.C.:

90°C  
80°C  
250°C

**Laying conditions at trefoil formation are as below:**

Soil thermal resistivity: 120°C. Cm/Watt  
Burial depth: 0.5m  
Ground temperature: 15°C  
Air temperature: 25°C  
Frequency: 50Hz

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.