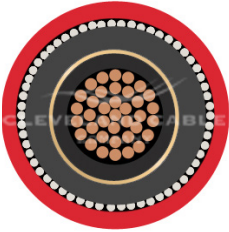


BS6622 11KV PVC SINGLE CORE COPPER SCREENED CABLE



APPLICATION

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.

CABLE STANDARDS

BS 6622

IEC 60502

Flame propagation to BS EN60332

CONSTRUCTION

Conductor: Stranded Plain Annealed Circular Compacted Copper Conductors

Insulation: Cross Link Polyethylene (XLPE)

Metallic Screen: Individual or overall copper tape screen

Separator: Copper Tape with 10% overlap

Bedding: PVC

Armouring: Aluminium Wire Armour

Sheath: PVC outer sheath

Sheath Colour: ■ Red ■ Black

CHARACTERISTICS

Voltage Rating: 6350/11000 Volts (12KV)
Tested to Voltage and Duration of BS 6622

Temperature Limits: -15°C to 90°C

Minimum Bending Radius: As per cable manufacturer datasheet

Should not be installed at temperatures below 0°C or above +60°C

BS6622 11KV PVC SINGLE CORE COPPER SCREENED CABLE - DIMENSIONS

| CCC CODE | CONDUCTOR SIZE (MM ²) | STRANDING (MM) | NO. OF CORES | WEIGHT (KG/KM) | APPROX OVERALL DIAMETER (MM) | | | NYLON CLEAT SIZE | TREFOIL |
|----------|-----------------------------------|----------------|--------------|----------------|------------------------------|-------------|------------|------------------|---------|
| | | | | | UNDER ARMOUR | OVER ARMOUR | OVERALL MM | | |
| 10001 | 50 | 19/1.78 | 1 | 1200 | 21.7 | 24.9 | 28.5 | 12 | 376AC04 |
| 10002 | 70 | 19/2.14 | 1 | 1461 | 23 | 26.2 | 30.0 | 14 | 376AC05 |
| 10003 | 95 | 19/2.52 | 1 | 1761 | 24.7 | 27.9 | 31.7 | 14 | 376AC06 |
| 10004 | 120 | 37/2.03 | 1 | 2049 | 26.7 | 29.9 | 33.9 | 14 | 376AC07 |
| 10005 | 150 | 37/2.25 | 1 | 2451 | 27.5 | 31.5 | 35.7 | 16 | 376AC08 |
| 10006 | 185 | 37/2.52 | 1 | 2848 | 29.3 | 33.3 | 37.5 | 16 | 376AC09 |
| 10007 | 240 | 61/2.25 | 1 | 3470 | 31.6 | 35.6 | 40.0 | 16 | 376AC11 |
| 10008 | 300 | 61/2.52 | 1 | 4103 | 34.6 | 38.6 | 43.0 | 18 | 376AC12 |
| 10009 | 400 | 61/2.85 | 1 | 4995 | 37 | 41.0 | 45.8 | 18 | 376AC14 |
| 10010 | 500 | 61/3.20 | 1 | 6320 | 40.5 | 45.5 | 50.5 | 20 | 376AC17 |
| 10011 | 630 | 127/2.52 | 1 | 7840 | 44.6 | 49.6 | 54.8 | TC9 | 376AC19 |

BS6622 11KV PVC SINGLE CORE SCREENED CABLE – ELECTRICAL CHARACTERISTICS

| CONDUCTOR SIZE | MAXIMUM CONDUCTOR DC RESISTANCE AT (20°C Ω/Km) | CONDUCTOR AC RESISTANCE AT MAX OPERATING TEMPERATURE AND 50HZ (20°C Ω/KM) | CAPACITANCE mF/Km | CHARGING CURRENT (A/Km) | DIELECTRIC LOSSES (W/Km) | RESISTANCE AT 50HZ (Ω/KM) | CONDUCTOR S.C.C FOR 1 SEC (KA) | SCREEN S.C.C FOR 1 SEC (KA) | CURRENT RATING | | |
|----------------|--|---|-------------------|-------------------------|--------------------------|---------------------------|--------------------------------|-----------------------------|-------------------|-----------------|---------------------|
| | | | | | | | | | LAI D IN GROUND A | LAI D IN DUCT A | LAI D IN FREE AIR A |
| 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 | 30.00 | 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 |

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

ELECTRICAL DATA:

Maximum conductor operating temperature: 90°C
Maximum screen operating temperature: 80°C
Maximum conductor temperature during S.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.