



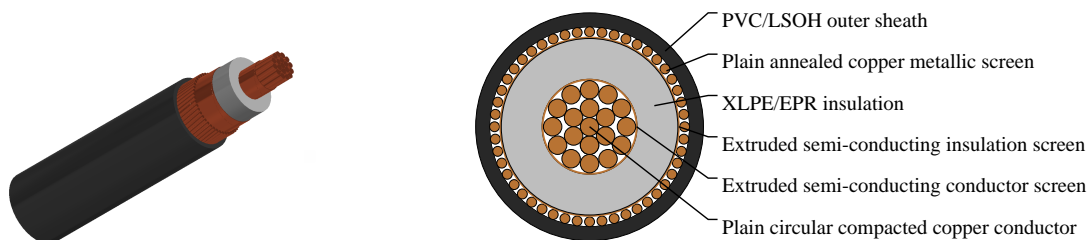
Caledonian

Industrial Cables (Australian Standard Medium Voltage)

www.caledonian-cables.com

marketing@caledonian-cables.com

12.7/22kV Single Core Screened & PVC Sheathed (Cu Conductor) Heavy Duty 1C95



APPLICATIONS

These cables are designed to be used for the supply of electrical energy in fixed applications up to the rated voltages at a nominal power frequency between 49Hz and 61Hz., they are suitable for use in distribution installation, electrical power station , they are applied for installation, outdoors, underground where subject to mechanical damage.

STANDARDS

AS/NZS 1429.1

VOLTAGE RATING

12.7/22kV

CABLE CONSTRUCTION

CONDUCTOR: Plain circular compacted copper to AS/NZS1125

Maximum Continuous Operating Temperature: 90°C

CONDUCTOR SCREEN: Extruded semi-conducting compound, bonded to the insulation and applied in the same operation as the insulation

INSULATION: Cross Linked Polyethylene (XLPE) – standard

Ethylene Propylene Rubber (EPR) – alternative

INSULATION SCREEN: Extruded semi-conducting compound

METALLIC SCREEN: Plain annealed copper wire: 10kA for nominal 1 second(HEAVY DUTY)

SHEATH: Black 5V-90 polyvinyl chloride (PVC) – standard

Orange 5V-90 PVC inner plus black high density polyethylene (HDPE) outer – alternative

Low smoke zero halogen (LSOH) – alternative

TECHNICAL CHARACTERISTICS

| NonMax. Conduc | Cond. | Cond. | Inductive | Inductive | Inductive | Insulation | Conductor | Max. | Current | Current | Current |
|----------------|----------|----------|-----------|-----------|-----------|------------|------------|------------|----------|---------|---------|
| Cross- | DC | AC | AC | reactance | reactance | reactance | Resistance | dielectric | Ratings | Ratings | Ratings |
| Section | Resistan | Resistan | Resistan | @50Hz | @50Hz | @50Hz | @20°C | stress | Unenclos | (Buried | (Buried |
| Area | @20°C | @50Hz | @50Hz | and | and | and | capacitanc | | In Air) | Direct) | In |
| | | and | and | 90°C | 90°C | 90°C | | | | | Ducts) |
| | | 90°C | 90°C | (Trefoil | (flat | (flat | | | | | |
| | | (Trefoil | (flat | touching) | touching) | spaced) | | | | | |



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| | | or Flat touching) | | | | | | | | | | |
|-----------------|------------|----------------------|------------|------------|------------|---------------|-------|------------|------------|-----|-----|-----|
| mm ² | Ohm/ km | Ohm/ km | Ohm/ km | Ohm/ km | Ohm/ km | Ohm/Meg km | Ohm.k | μF × km | kV × mm | A | A | A |
| 95 | 0.193 | 0.247 | 0.247 | 0.132 | 0.147 | 0.193 | 11000 | 0.216 | 3.16 | 365 | 311 | 269 |

DIMENSION AND PARAMETERS

| Nominal Cross- sectional Area | Conductor Diameter | Nominal Insulation Thickness | Nominal Diameter over Insulation | Screen Area on Each core | No. Diameter of Screened Wires | Nom. Diameter Over Screened Wires | Nom. Overall Diameter | Approx. Weight |
|--|-----------------------|------------------------------------|---|--------------------------------|---|---|-----------------------------|-------------------|
| mm ² | mm | mm | mm | mm ² | no x mm | mm | mm | kg/km |
| 95 | 11.5 | 5.5 | 23.8 | 68.7 | 48x1.35 | 28.1 | 32.4 | 215 |