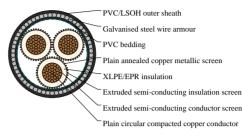


# Caledonian

Industrial Cables (Australian Standard Medium Voltage) www.caledonian-cables.com marketing@caledonian-cables.com

#### 6.35/11kV Three Core Individual Screened & PVC/SWA/PVC Sheathed(Cu Conductor) 3C120





#### **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

6.35/11kV

#### 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) BEDDING: PVC ARMOURING: Galvanised steel wires 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. InductivensulatioConducto Max. ChargindDielectric Screen Armour Zero Zero AC reactand Resistanc Cross-DC diaelectric current DC DC to loss sequence seq. SectiorResistanResistanc @50Hz @20°C screen stress per per resistancesistance react. @50Hz phrase at 20°C at 20°C at 20°C Area @20°C capacitand phase at 50Hz and 90°C



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| mm  | ² Ohm/<br>km | Ohm/<br>km | Ohm/M<br>km | egOhm.k | μF ×<br>km | kV ×<br>mm | A × km | W ×<br>km | Ohm/<br>km |       |       | Ohm/<br>km |
|-----|--------------|------------|-------------|---------|------------|------------|--------|-----------|------------|-------|-------|------------|
| 120 | 0.153        | 0.196      | 0.102       | 7000    | 0.346      | 2.25       | 0.689  | 17.5      | 0.265      | 0.451 | 0.655 | 0.0543     |

## DIMENSION AND PARAMETERS

|           | Conducto<br>Diameter |           |            |         |      | No.<br>Diamter    |          | Diameter | Nom.<br>Diameter  | Nom.     | Approx.<br>Weight |
|-----------|----------------------|-----------|------------|---------|------|-------------------|----------|----------|-------------------|----------|-------------------|
| sectional |                      | Thickness | over       | over    | Each | of                | Wire     | Armour   |                   | Diameter | U                 |
| Area      |                      |           | Insulation | Bedding | core | Screenec<br>Wires | Diameter |          | Screened<br>Wires |          |                   |
| mm²       | mm                   | mm        | mm         | mm      | mm²  | no x<br>mm        | mm       | mm       | mm                | mm       | kg/km             |
| 120       | 13.1                 | 3.4       | 21         | 56.4    | 68.1 | 40x0.85           | 2.5      | 61.4     | 24.3              | 67.9     | 910               |