



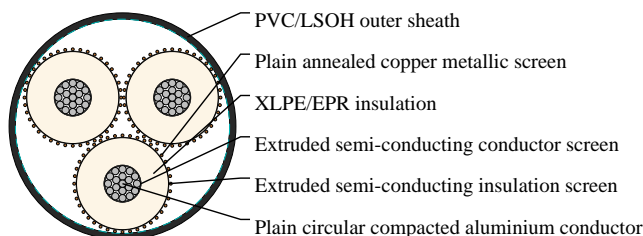
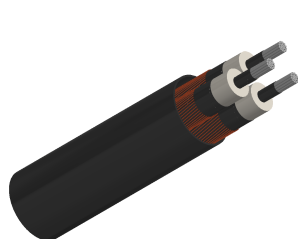
Caledonian

Industrial Cables (Australian Standard Medium Voltage)

www.caledonian-cables.com

marketing@caledonian-cables.com

19/33kV Three Core Individual Screened & PVC Sheathed (Al Conductor) Light Duty 3C70



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

19/33kV

CABLE CONSTRUCTION

CONDUCTOR: Plain circular compacted aluminium 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: 3kA for nominal 1 second(LIGHT 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

| Nom. Cross-Section Area | Max. Conduct DC Resistance @20°C | Cond. AC Resistance @50Hz and 90°C | Inductive reactance @50Hz | Insulation Resistance @20°C | Conductor to screen capacitance | Max. dielectric stress | Current Ratings (Unenclosed In Air) | Current Ratings (Buried Direct) | Current Ratings (Buried In Ducts) |
|-------------------------|----------------------------------|------------------------------------|---------------------------|-----------------------------|---------------------------------|------------------------|-------------------------------------|---------------------------------|-----------------------------------|
| mm ² | Ohm/km | Ohm/km | Ohm/km | MegOhm.km | µF × km | kV × mm | A | A | A |
| 70 | 0.443 | 0.568 | 0.136 | 16000 | 0.148 | 3.81 | 203 | 189 | 163 |



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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 |
| 70 | 9.6 | 8 | 37.2 | 10.2 | 18x0.85 | 27.6 | 70.4 | 367 |