



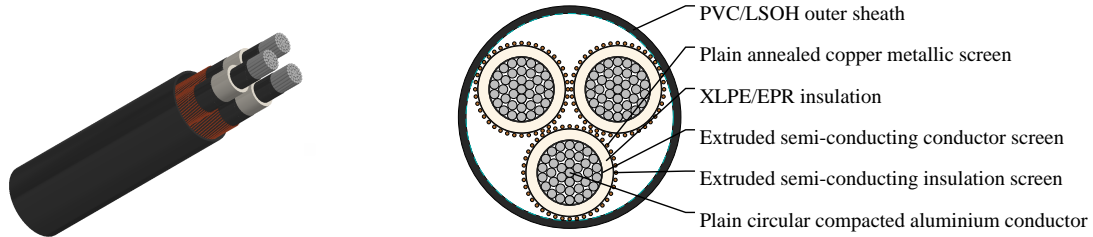
Caledonian

Industrial Cables (Australian Standard Medium Voltage)

www.caledonian-cables.com

marketing@caledonian-cables.com

3.8/6.6kV Three Core Individual Screened & PVC Sheathed (Al Conductor) Heavy Duty 3C150



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

3.8/6.6kV

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: 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

| 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 |
| 150 | 0.206 | 0.265 | 0.0948 | 5100 | 0.477 | 1.72 | 293 | 306 | 254 |



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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 |
| 150 | 14.2 | 2.5 | 20.3 | 22.7 | 40x0.85 | 23.6 | 57.3 | 340 |