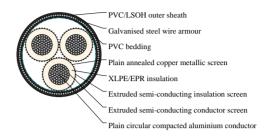


Caledonian

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

19/33kV Three Core Individual Screened & PVC/SWA/PVC Sheathed(Al Conductor) 3C500





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: 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

| Ν | onMa | x.Conduc | Cond. | Inductive | nsulatio | Conducto | Max. | Charging | Dielectric | Screen | Armour | Zero | Zero |
|----|--------|-------------------|----------|-----------|-----------|-----------|-------------|----------|------------|----------|----------|-----------|--------|
| Cr | oss- | DC | AC i | reactande | lesistanc | to (| diaelectric | current | loss | DC | DC : | sequence | seq. |
| Se | ctiorR | lesistan B | esistand | @50Hz | @20°C | screen | stress | per | per r | esistano | esistana | esistance | react. |
| Α | rea | @20°C | @50Hz | | Ca | apacitano | | phase | phrase | at 20°C | at 20°C | at 20°C | at |
| | | | and | | | | | | | | | | 50Hz |
| | | | 90°C | | | | | | | | | | |



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| mm² | Ohm/ km | Ohm/ km | Ohm/M km | egOhm.k | μF × km | | A × km | W × km | | Ohm/ km | | Ohm/ km |
|-----|------------|------------|-------------|---------|------------|------|--------|-----------|-------|------------|-------|------------|
| 500 | 0.0617 | 0.0819 | 0.099 | 8100 | 0.297 | 2.93 | 1.77 | 135 | 0.265 | 0.215 | 0.419 | 0.0524 |

DIMENSION AND PARAMETERS

| Nominal Cross-sectional | Diameter | | Diameter | | | No. Diamter of | Nominal Armour Wire | | Diameter | Nom. Overall Diameter | Approx. Weight |
|-------------------------|----------|----|----------|---------|------|----------------------|---------------------------|-------|-------------------|-----------------------------|-------------------|
| Area | | | | Bedding | | Screened Wires | | | Screened Wires | | |
| mm² | mm | mm | mm | mm | mm² | no x mm | mm | mm | mm | mm | kg/km |
| 500 | 26.5 | 8 | 44.2 | 109 | 68.1 | 40x0.85 | 3.15 | 115.3 | 47.7 | 125.2 | 1960 |