

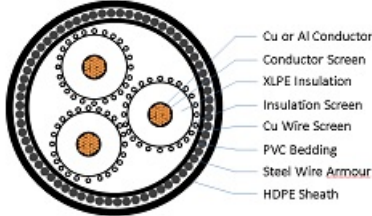
THREE CORE, 19/33kV HEAVY DUTY SCREENED ARMoured

MEDIUM VOLTAGE POWER CABLES

# XLPE INSULATED COPPER WIRE SCREENED SWA AND HDPE SHEATHED CABLE TO AS/NZS 1429.1

CABLE APPLICATION

**Description**  
Mains enclosed in conduit, buried or underground ducts for industrial plants, buildings and transformers where mechanical protection is required.



CABLE DESIGN

**Conductor**  
Plain Annealed Copper or Aluminium to AS/NZS 1125  
**Insulation**  
X-90 XLPE to AS/NZS 3808  
**Sheath**  
HDPE to AS/NZS 3808

**Note**  
\*\* items can be supplied with compacted conductors to AS/NZS 1125  
\*\* items can be supplied with alternative stranding construction to AS/NZS 1125 - 7/19/37/61 strands  
\*\* overall dimensions may vary due to compacted conductors

COPPER CONDUCTOR, HIGH FAULT LEVEL

Part Number	Conductor			Cable						Conductor resistance (Max)		Short Circuit Rating	
	Nom. Area mm <sup>2</sup>	Nom. Dia. mm	Min. Nom. Ins. Thickness mm	Nom. Insulation Dia. mm	Nom. Armour Wire Dia. mm	Nom. Screen Area mm <sup>2</sup>	Nom. Sheath Thickness mm	Nom. Overall Dia. mm	Approx. Cable Weight Kg/m	DC at 20°C Ohm/km	AC at 90°C Ohm/km	Phase Conductor (one sec.) kA	Copper Wire Screen (one sec.) kA
SHV19178C3C33HDPE 50**	8.2	8.0	26.2	3.15	3.15	16	3.5	81.9	10.0	0.387	0.494	7.2	7.1
SHV19214C3C33HDPE 70**	9.8	8.0	27.8	3.15	3.15	23	3.6	88.2	11.7	0.268	0.342	10.0	10.3

19/33kV 3C SWA, CU

ALUMINIUM CONDUCTOR, HIGH FAULT LEVEL

Part Number	Conductor			Cable						Conductor resistance (Max)		Short Circuit Rating	
	Nom. Area mm <sup>2</sup>	Nom. Dia. mm	Min. Nom. Ins. Thickness mm	Nom. Insulation Dia. mm	Nom. Armour Wire Dia. mm	Nom. Screen Area mm <sup>2</sup>	Nom. Sheath Thickness mm	Nom. Overall Dia. mm	Approx. Cable Weight Kg/m	DC at 20°C Ohm/km	AC at 90°C Ohm/km	Phase Conductor (one sec.) kA	Copper Wire Screen (one sec.) kA
SHV19178A3C33HDPE 50**	8.2	8.0	26.2	3.15	3.15	11	3.5	81.9	9.0	0.641	0.822	4.7	4.8
SHV19214A3C33HDPE 70**	9.8	8.0	27.8	3.15	3.15	15	3.6	86.8	9.9	0.443	0.568	6.6	6.3

19/33kV 3C SWA, AL

**CMI Head Office NSW** | (02) 9807 6155 | F3, 3-29 Birnie Ave, Lidcombe, NSW, 2141 | [nswsales@cmielectrical.com.au](mailto:nswsales@cmielectrical.com.au)  
**CMI QLD-Brisbane**  
(07) 3863 0749  
485A Zillmere Road,  
Zillmere QLD 4034  
[southqldsales@cmielectrical.com.au](mailto:southqldsales@cmielectrical.com.au)

**CMI QLD - Rockhampton**  
(07) 4921 0978  
Shop 3 at 76 Hollingsworth Street,  
North Rockhampton Qld 4701  
[northqldsales@cmielectrical.com.au](mailto:northqldsales@cmielectrical.com.au)

**CMI VIC**  
(03) 9532 1233  
3 Dissik Street,  
Cheltenham VIC 3192  
[vic-sales@cmielectrical.com.au](mailto:vic-sales@cmielectrical.com.au)

**CMI WA**  
(08) 9358 1788  
36 Division Street,  
Welshpool WA 6106  
[walesales@cmielectrical.com.au](mailto:walesales@cmielectrical.com.au)