

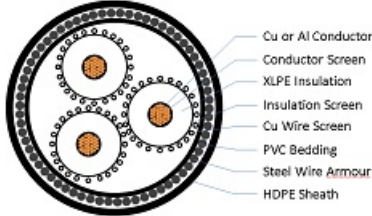
THREE CORE, 19/33kV HEAVY DUTY SCREENED ARMoured

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

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