

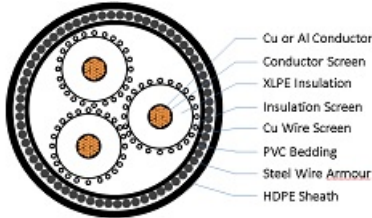
THREE CORE, 6.35/11kV HEAVY DUTY SCREENED ARMoured

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	Nom. Insulation 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
SHV19153C3C11HDPE 35**	7.1	3.4	15.5	2.5	2.5	12	2.6	54.8	5.2	0.524	0.668	5.0	5.1
SHV19178C3C11HDPE 50**	8.2	3.4	16.6	2.5	2.5	16	2.7	58.7	6.0	0.387	0.494	7.2	7.2
SHV19214C3C11HDPE 70**	9.8	3.4	18.2	2.5	2.5	23	2.8	62.8	7.2	0.268	0.342	10.0	10.3
SHV37178C3C11HDPE 95**	11.5	3.4	19.9	2.5	2.5	31	2.9	66.8	8.7	0.193	0.247	13.6	13.5
SHV37203C3C11HDPE 120**	12.9	3.4	21.3	2.5	2.5	31	3.1	70.3	9.8	0.153	0.196	17.2	13.5
SHV37225C3C11HDPE 150**	14.3	3.4	22.7	2.5	2.5	31	3.2	73.7	11.0	0.124	0.159	21.5	13.5
SHV37252C3C11HDPE 185**	16.1	3.4	24.5	3.15	3.15	31	3.3	79.0	13.3	0.0991	0.128	26.5	13.5
SHV61225C3C11HDPE 240**	18.3	3.4	26.7	3.15	3.15	31	3.5	85.2	15.9	0.1754	0.0984	34.3	13.5

6.35/11kV 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	Nom. Insulation 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
SHV19153A3C11HDPE 35**	7.1	3.4	15.5	2.5	2.5	9	2.6	54.8	4.6	0.868	1.11	3.3	3.3
SHV19178A3C11HDPE 50**	8.2	3.4	16.6	2.5	2.5	11	2.7	58.7	4.9	0.641	0.822	4.7	4.3
SHV19214A3C11HDPE 70**	9.8	3.4	18.2	2.5	2.5	15	2.8	62.8	5.7	0.443	0.568	6.6	6.3
SHV37178A3C11HDPE 95**	11.5	3.4	19.9	2.5	2.5	21	2.9	66.8	6.5	0.320	0.411	9.0	8.9
SHV37203A3C11HDPE 120**	12.9	3.4	21.3	2.5	2.5	23	3.1	70.3	7.2	0.253	0.325	11.3	10.3
SHV37225A3C11HDPE 150**	14.3	3.4	22.7	2.5	2.5	26	3.2	73.7	7.9	0.206	0.265	14.2	10.3
SHV37252A3C11HDPE 185**	16.1	3.4	24.5	3.15	3.15	31	3.3	79.0	9.5	0.164	0.211	17.5	13.5
SHV61225A3C11HDPE 240**	18.3	3.4	26.7	3.15	3.15	31	3.5	85.2	10.9	0.125	0.162	22.7	13.5

6.35/11kV 3C SWA, AL

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