

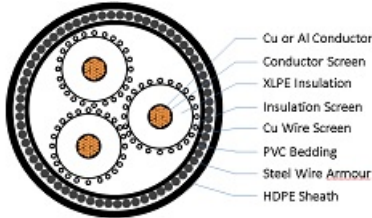
THREE CORE, 12.7/22kV HEAVY DUTY SCREENED ARMoured

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 ²	Nom. Dia. mm	Nom. Insulation Thickness mm	Nom. Insulation Dia. mm	Nom. Armour Wire Dia. mm	Nom. Screen Area mm ²	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
SHV19153C3C22HDPE 35**	7.1	5.5	19.9	2.5	12	2.9	65.3	6.4	0.524	0.668	5.0	5.1
SHV19178C3C22HDPE 50**	8.2	5.5	21.0	2.5	16	3.0	69.3	7.4	0.387	0.494	7.2	7.2
SHV19214C3C22HDPE 70**	9.8	5.5	22.6	2.5	23	3.2	73.5	8.6	0.268	0.342	10.0	10.3
SHV37178C3C22HDPE 95**	11.5	5.5	24.3	3.15	31	3.3	78.7	11.0	0.193	0.247	13.6	13.5
SHV37203C3C22HDPE 120**	12.9	5.5	25.7	3.15	31	3.4	82.1	12.2	0.153	0.196	17.2	13.5
SHV37225C3C22HDPE 150**	14.3	5.5	27.1	3.15	31	3.5	86.4	13.6	0.124	0.159	21.5	13.5
SHV37252C3C22HDPE 185**	16.1	5.5	28.9	3.15	31	3.7	90.6	15.3	0.0991	0.128	26.5	13.5
SHV61225C3C22HDPE 240**	18.3	5.5	31.1	3.15	31	3.7	94.0	17.3	0.0754	0.099	34.3	13.5

12.7/22kV 3C SWA, CU

ALUMINIUM CONDUCTOR, HIGH FAULT LEVEL

Part Number	Conductor			Cable				Conductor resistance (Max)		Short Circuit Rating		
	Nom. Area mm ²	Nom. Dia. mm	Nom. Insulation Thickness mm	Nom. Insulation Dia. mm	Nom. Armour Wire Dia. mm	Nom. Screen Area mm ²	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
SHV19153A3C22HDPE 35**	7.1	5.5	19.9	2.5	9	2.9	65.3	5.8	0.868	1.11	3.3	3.8
SHV19178A3C22HDPE 50**	8.2	5.5	21.0	2.5	11	3.0	67.9	6.2	0.641	0.822	4.7	4.3
SHV19214A3C22HDPE 70**	9.8	5.5	22.6	2.5	15	3.1	72.0	7.0	0.443	0.568	6.6	6.3
SHV37178A3C22HDPE 95**	11.5	5.5	24.3	3.15	21	3.3	78.7	8.9	0.320	0.411	9.0	8.9
SHV37203A3C22HDPE 120**	12.9	5.5	25.8	3.15	23	3.4	82.3	9.7	0.253	0.325	11.3	10.3
SHV37225A3C22HDPE 150**	14.3	5.5	27.1	3.15	26	3.5	86.4	10.5	0.206	0.265	14.2	10.3
SHV37252A3C22HDPE 185**	15.9	5.5	28.7	3.15	31	3.7	90.2	11.3	0.164	0.211	17.5	13.5

12.7/22kV 3C SWA, AL

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

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

CMI VIC
 (03) 9532 1233
 3 Dissik Street,
 Cheltenham VIC 3192
 vicsales@cmielectrical.com.au

CMI WA
 (08) 9358 1788
 36 Division Street,
 Welshpool WA 6106
 wasales@cmielectrical.com.au