

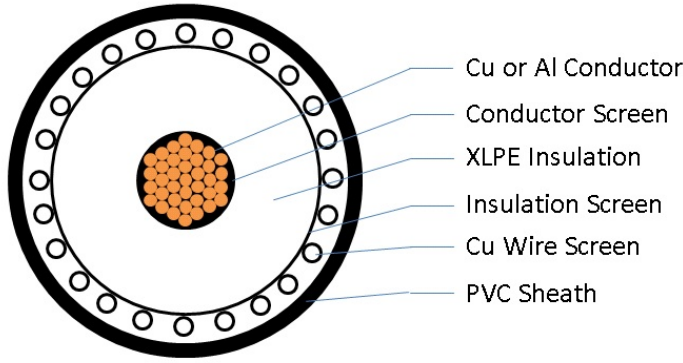
SINGLE CORE, 12.7/22kV HEAVY DUTY SCREENED UNARMoured

MEDIUM VOLTAGE POWER CABLES

XLPE INSULATED COPPER WIRE SCREENED AND PVC 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 not subject to mechanical damage.



CABLE DESIGN

Conductor
Plain Annealed Copper or Aluminium to AS/NZS 1125
Insulation
X-90 XLPE to AS/NZS 3808
Sheath
5V-90 PVC 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. 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
HV19153C22PVC 35**	7.1	5.5	19.9	35	1.8	28.9	1.2	0.524	0.668	5.0	4.9
HV19178C22PVC 50**	8.2	5.5	21.0	50	1.8	29.9	1.5	0.387	0.494	7.2	7.1
HV19214C22PVC 70**	9.8	5.5	22.6	70	1.9	32.7	1.9	0.268	0.342	10.0	10.0
HV37178C22PVC 95**	11.5	5.5	24.3	91	1.9	34.4	2.4	0.193	0.247	13.6	13.5
HV37203C22PVC 120**	12.9	5.5	25.7	91	2.0	36.0	2.7	0.153	0.196	17.2	13.5
HV37225C22PVC 150**	14.3	5.5	27.1	91	2.0	37.8	3.0	0.124	0.159	21.5	13.5
HV37252C22PVC 185**	16.1	5.5	28.9	91	2.1	39.8	3.4	0.0991	0.128	26.5	13.5
HV61225C22PVC 240**	18.3	5.5	31.1	91	2.2	42.2	4.0	0.0754	0.0977	34.3	13.5
HV61252C22PVC 300**	20.8	5.5	33.8	91	2.2	44.9	4.7	0.0601	0.0788	42.9	13.5
HV61285C22PVC 400**	23.5	5.5	37.0	91	2.4	47.0	5.7	0.0470	0.0627	57.2	13.5
HV61320C22PVC 500**	26.6	5.5	40.1	91	2.4	53.0	6.7	0.0366	0.0503	71.5	13.5
HV12725C22PVC 630**	30.2	5.5	43.7	91	2.6	57.0	8.2	0.0283	0.0408	90.1	13.5

12.7/22kV 1C, 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. 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
HV19153A22PVC 35**	7.1	5.5	19.9	23	1.8	28.4	0.8	0.868	1.11	3.3	3.3
HV19178A22PVC 50**	8.2	5.5	21.0	32	1.8	29.9	1.0	0.641	0.822	4.7	4.4
HV19214A22PVC 70**	9.8	5.5	22.6	46	1.9	32.7	1.2	0.443	0.568	6.6	6.4
HV37178A22PVC 95**	11.5	5.5	24.3	63	1.9	34.4	1.5	0.320	0.411	9.0	8.8
HV37203A22PVC 120**	12.9	5.5	25.7	79	2.0	36.1	1.8	0.253	0.325	11.3	10.0
HV37225A22PVC 150**	14.3	5.5	27.1	91	2.0	37.8	2.1	0.206	0.265	14.2	13.5
HV37252A22PVC 185**	16.1	5.5	28.9	91	2.1	39.6	2.2	0.164	0.211	17.5	13.5
HV61225A22PVC 240**	18.3	5.5	31.1	91	2.2	42.2	2.5	0.125	0.161	22.7	13.5
HV61252A22PVC 300**	20.8	5.5	33.8	91	2.2	44.9	2.8	0.100	0.130	28.3	13.5
HV61285A22PVC 400**	23.5	5.5	37.0	91	2.4	48.5	3.2	0.0778	0.101	37.8	13.5
HV61320A22PVC 500**	26.6	5.5	40.1	91	2.4	52.0	3.6	0.0605	0.0799	47.2	13.5

12.7/22kV 1C, AL