

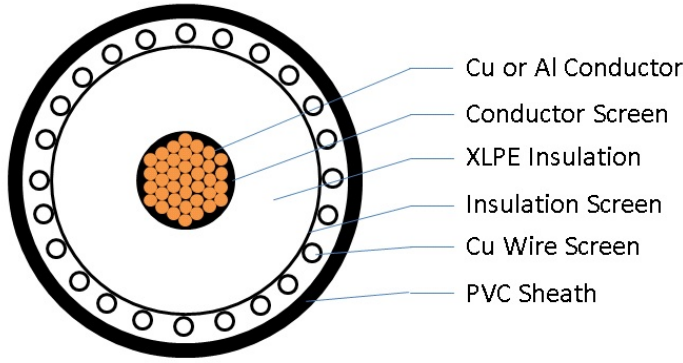
SINGLE CORE, 6.35/11kV HEAVY DUTY SCREENED UNARMoured

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
HV19153C11PVC 35**	7.1	3.4	15.5	35	1.8	24.5	1.0	0.524	0.668	5.0	4.9
HV19178C11PVC 50**	8.2	3.4	16.6	50	1.8	25.5	1.3	0.387	0.494	7.2	7.1
HV19214C11PVC 70**	9.8	3.4	18.2	70	1.8	28.1	1.7	0.268	0.342	10.0	10.0
HV37178C11PVC 95**	11.5	3.4	19.9	91	1.8	29.8	2.0	0.193	0.247	13.6	13.5
HV37203C11PVC 120**	12.9	3.4	21.3	91	1.8	31.2	2.2	0.153	0.196	17.2	13.5
HV37225C11PVC 150**	14.3	3.4	22.7	91	1.9	32.8	2.5	0.124	0.159	21.5	13.5
HV37252C11PVC 185**	16.1	3.4	24.5	91	1.9	34.6	2.9	0.0991	0.128	26.5	13.5
HV61225C11PVC 240**	18.3	3.4	26.7	91	2.0	37.4	3.5	0.0754	0.098	34.3	13.5
HV61252C11PVC 300**	20.8	3.4	29.4	91	2.1	40.3	4.2	0.0601	0.079	42.9	13.5
HV61285C11PVC 400**	23.5	3.4	32.6	91	2.2	43.7	5.1	0.0470	0.0631	57.2	13.5
HV61320C11PVC 500**	26.6	3.4	35.7	91	2.3	47.0	6.1	0.0366	0.0508	71.5	13.5

6.35/11kV 1C, CU

ALUMINIUM CONDUCTOR, HIGH FAULT LEVEL

Part Number	Nom. Area mm ²	Nom. Dia. mm	Min. Nom. Ins. Thickness mm	Nom. Insulation Dia. mm	Nom. Screen Area mm ²	Nom. Sheath Thickness mm	Nom. Overall Dia. mm	Approx. Cable Weight Kg/Km	DC at 20°C Ohm/km	AC at 90°C Ohm/km	Phase Conductor (one sec.) kA	Copper Wire Screen (one sec.) kA
	HV19153A11PVC 35**	7.1	3.4	15.5	23	1.8	24.0	0.7	0.888	1.11	3.3	3.3
HV19178A11PVC 50**	8.2	3.4	16.6	32	1.8	25.5	0.8	0.641	0.822	4.7	4.4	
HV19214A11PVC 70**	9.8	3.4	18.2	46	1.8	28.1	1.0	0.443	0.568	6.6	6.4	
HV37178A11PVC 95**	11.5	3.4	19.9	63	1.8	29.8	1.3	0.320	0.411	9.0	8.8	
HV37203A11PVC 120**	12.9	3.4	21.3	79	1.8	31.3	1.5	0.253	0.325	11.3	10.0	
HV37225A11PVC 150**	14.3	3.4	22.7	91	1.9	32.8	1.6	0.206	0.265	14.2	13.5	
HV37252A11PVC 185**	16.1	3.4	24.5	91	1.9	34.4	1.8	0.164	0.211	17.5	13.5	
HV61225A11PVC 240**	18.3	3.4	26.7	91	2.0	37.4	2.0	0.125	0.161	22.7	13.5	
HV61252A11PVC 300**	20.8	3.4	29.4	91	2.1	40.3	2.3	0.100	0.130	28.3	13.5	
HV61285A11PVC 400**	23.5	3.4	32.6	91	2.2	43.7	2.7	0.0778	0.102	37.8	13.5	
HV61320A11PVC 500**	26.6	3.4	35.7	91	2.3	47.0	3.0	0.0605	0.0802	47.2	13.5	

6.35/11kV 1C, AL