

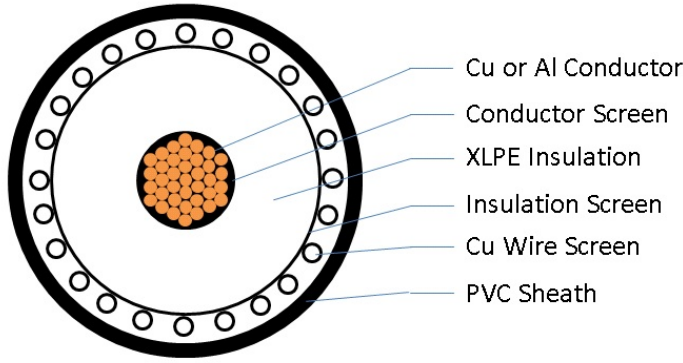
SINGLE CORE, 19/33kV HEAVY DUTY SCREENED UNARMoured

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
HV19178C33PVC 50**	8.2	8.0	26.2	50	2.0	35.5	1.7	0.387	0.494	7.2	7.1
HV19214C33PVC 70**	9.8	8.0	27.8	70	2.1	38.7	2.2	0.268	0.342	10.0	10.0
HV37178C33PVC 95**	11.5	8.0	29.5	91	2.1	40.4	2.7	0.193	0.247	13.6	13.5
HV37203C33PVC 120**	12.9	8.0	30.9	91	2.2	42.0	3.0	0.153	0.196	17.2	13.5
HV37225C33PVC 150**	14.3	8.0	32.3	91	2.2	43.4	3.3	0.124	0.159	21.5	13.5
HV37252C33PVC 185**	16.1	8.0	34.1	91	2.3	45.4	3.8	0.0991	0.127	26.5	13.5
HV61225C33PVC 240**	18.3	8.0	36.3	91	2.3	47.6	4.4	0.0754	0.0976	34.3	13.5
HV61252C33PVC 300**	20.8	8.0	39.0	91	2.4	50.9	5.1	0.0601	0.1785	42.9	13.5
HV61285C33PVC 400**	23.5	8.0	42.2	91	2.5	54.3	6.1	0.0470	0.1624	57.2	13.5
HV61320C33PVC 500**	26.6	8.0	45.3	91	2.6	57.6	7.1	0.0366	0.1499	71.5	13.5

19/33kV 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
HV19178A33PVC 50**	8.2	8.0	26.2	32	2.0	35.5	1.3	0.641	0.822	4.7	4.4
HV19214A33PVC 70**	9.8	8.0	27.8	46	2.1	38.7	1.5	0.443	0.568	6.6	6.8
HV37178A33PVC 95**	11.5	8.0	29.5	63	2.1	40.4	1.8	0.320	0.411	9.0	8.8
HV37203A33PVC 120**	12.9	8.0	31.0	79	2.2	42.1	2.1	0.253	0.325	11.3	10.0
HV37225A33PVC 150**	14.3	8.0	32.3	91	2.2	43.4	2.4	0.206	0.265	14.2	13.5
HV37252A33PVC 185**	15.9	8.0	34.1	91	2.3	45.4	2.6	0.164	0.211	17.5	13.5
HV61225A33PVC 240**	18.3	8.0	36.3	91	2.3	47.6	2.9	0.125	0.161	22.7	13.5
HV61252A33PVC 300**	20.8	8.0	39.0	91	2.4	50.9	3.2	0.100	0.129	28.3	13.5
HV61285A33PVC 400**	23.5	8.0	42.2	91	2.5	54.3	3.6	0.0778	0.101	37.8	13.5
HV61320A33PVC 500**	26.6	8.0	45.3	91	2.6	57.6	4.7	0.0605	0.0797	47.2	13.5

19/33kV 1C, AL