

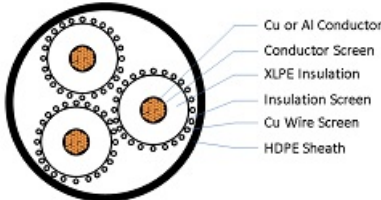
THREE CORE , 19/33 kV HEAVY DUTY SCREENED UNARMoured

MEDIUM VOLTAGE POWER CABLES

XLPE INSULATED COPPER WIRE SCREENED 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 not subject to mechanical damage.



CABLE DESIGN

Conductor
Plain Annealed Copper or Aluminium to AS 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	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/m	DC at 20°C Ohm/km	AC at 90°C Ohm/km	Phase Conductor (one sec.) kA
HV19178C3C33HDPE 50**	8.2	8.0	26.2	16	3.2	71.1	5.2	0.387	0.494	7.2	7.1
HV19214C3C33HDPE 70**	9.8	8.0	27.8	23	3.3	77.0	6.3	0.268	0.342	10.0	10.3
HV37178C3C33HDPE 95**	11.5	8.0	29.5	31	3.4	80.9	7.6	0.193	0.247	13.6	13.5
HV37203C3C33HDPE 120**	12.9	8.0	30.9	31	3.5	84.1	8.7	0.153	0.196	17.2	13.5
HV37225C3C33HDPE 150**	14.3	8.0	32.3	31	3.6	87.4	9.7	0.124	0.159	21.5	13.5
HV37252C3C33HDPE 185**	16.1	8.0	34.1	31	3.7	91.4	11.1	0.0991	0.128	26.5	13.5
HV61225C3C33HDPE 240**	18.3	8.0	36.3	31	3.9	96.5	13.4	0.0754	0.0978	34.3	13.5
HV61252C3C33HDPE 300**	20.8	8.0	39.0	31	4.1	103.6	15.6	0.0601	0.0788	42.9	13.5

19/33kV 3C, CU

ALUMINIUM CONDUCTOR, HIGH FAULT LEVEL

Part Number	Conductor		Cable					Conductor resistance (Max)		Short Circuit Rating	
	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/m	DC at 20°C Ohm/km	AC at 90°C Ohm/km	Phase Conductor (one sec.) kA
HV19178A3C33HDPE 50**	8.2	8.0	26.2	11.0	3.2	71.1	4.2	0.641	0.822	4.7	4.8
HV19214A3C33HDPE 70**	9.8	8.0	27.8	15.0	3.3	77.0	4.8	0.443	0.568	6.6	6.3
HV37178A3C33HDPE 95**	11.5	8.0	29.5	21.0	3.4	80.9	5.5	0.320	0.411	9.0	8.6
HV37203A3C33HDPE 120**	12.9	8.0	31.0	23.0	3.5	84.3	6.2	0.253	0.325	11.3	10.3
HV37225A3C33HDPE 150**	14.3	8.0	32.3	26.0	3.6	87.4	6.9	0.206	0.265	14.2	10.3
HV37252A3C33HDPE 185**	16.1	8.0	34.1	31.0	3.7	91.4	7.6	0.164	0.211	17.5	13.5
HV61225A3C33HDPE 240**	18.3	8.0	36.3	31.0	3.9	96.5	8.8	0.125	0.161	22.7	13.5
HV61252A3C33HDPE 300**	20.8	8.0	39.0	31.0	4.1	103.6	9.9	0.100	0.130	28.3	13.5

19/33kV 3C, AL

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