

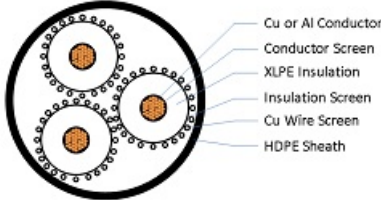
THREE CORE , 19/33 kV HEAVY DUTY SCREENED UNARMoured

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 <sup>2</sup>	Nom. Dia. mm	Min. Nom. Ins. Thickness mm	Nom. Insulation Dia. mm	Nom. Screen Area mm <sup>2</sup>	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 <sup>2</sup>	Nom. Dia. mm	Min. Nom. Ins. Thickness mm	Nom. Insulation Dia. mm	Nom. Screen Area mm <sup>2</sup>	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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