XLPE Armoured Mains

Wire & Cable Specification

Construction	
Standard	AS/NZS 5000.1
Voltage	0.6/1 kV
Conductor	Copper
Insulation	XLPE
Bedding	PVC
Armour	Galvanised steel wire
Sheath	PVC

Item Codes

Material No.	Old Code	Cores x Area mm²	Sheath	Nom Dia mm	Gland Size CW or E1FW	Approx Mass kg/m
Four Core						
HEMP15AA004CXEM	3578	4 x 16 *	BK	25.1	25	1.39
-	5789	4 x 25	BK	28.3	32	2.03
HEMV35AA004CXEM	8874	4 x 35	BK	29.9	32	2.47
-	1346	4 x 50	BK	33.0	32	3.11
HEMV20AA004CXEM	7912	4 x 70	BK	38.3	40	4.41
-	1225	4 x 150	BK	54.1	63S	8.85
HEMV25AA004CXEM	6541	4 x 185	BK	57.6	63S	10.55

Note: Conductors 25 mm² and above are shaped stranded.

* Circular stranded

continued

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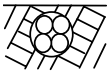
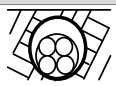
LOW VOLTAGE

Technical Information (Current Rating)

Conductor Size mm^2	Unenclosed		Buried Direct	Underground Ducts	Three Phase Voltage Drop mV/A.m
	Spaced from Surface	Touching			
					
Three Phase					
16	97	91	118	89	2.550
25	132	121	155	118	1.610
35	160	149	182	144	1.170
50	198	187	219	171	0.868
70	253	237	268	214	0.609
95	314	292	321	257	0.450
120	363	336	369	294	0.366
150	413	385	412	332	0.307
185	479	446	465	380	0.259
240	572	528	535	449	0.216

Note:

The values in this table have been obtained from AS/NZS 3008.1.2:1998 for typical New Zealand installation conditions of:-

Ambient Air Temperature	30°C
Soil Temperature	15°C
Soil Thermal Resistivity	1.2 K.m/W
Depth of Burial	0.5 m

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