




Varolex® Variable Speed Drive Cables



Wire & Cable Specification

Construction	
Standard	AS/NZS 5000.1
Voltage	0.6/1 kV
Conductor	Copper
Insulation	XLPE
Bedding	PVC
Screen	Copper tape screen
Sheath	PVC
Pack Sizes	Cut to length

Characteristics

Operating Temperature	Electromagnetic Compatibility
 Fixed -40°C to +90°C	 Designed for applications with EMC requirements

Application

Varolex® is a range of screened cables designed to significantly reduce interferences from electrical noise, particularly in Variable Speed Drive (VSD) applications.

Item Codes

Code	Cores x Area mm ² (combined earth size)	Nom Dia mm	Gland Size (Gland Type)	Approx Mass kg/m
6175	3 x 2.5 + 2.5 E [†]	14.6	25 (VSD)	0.32
4005	3 x 4 + 4.5 SE	16.6	25 (VSD)	0.44
5206	3 x 6 + 4.5 SE	17.5	25 (A4)	0.51
6307	3 x 10 + 4.5 SE	18.5	32 (A4)	0.62
1196	3 x 16 + 7.5 SE	20.6	32 (A4)	0.86
7408	3 x 25 + 12 SE	22.8	32 (A4)	1.21
8451	3 x 35 + 18 SE	25.6	40 (A4)	1.60
2200	3 x 50 + 30 SE	28.8	40 (A4)	2.11
4466	3 x 70 + 30 SE	32.0	50S (A4)	2.77
9651	3 x 95 + 48 SE	38.0	50 (A4)	3.90
3569	3 x 120 + 48 SE	43.2	50 (A4)	4.67
6548	3 x 150 + 75 SE	47.3	63S (A4)	5.85
5985	3 x 185 + 75 SE	52.0	63S (A4)	7.11
4015	3 x 240 + 105 SE	58.9	75S (A4)	9.18

continued

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



Core Colours

No. Cores	Colour
4	RD, WH, BU, GNYE

Note: Conductors are circular stranded, sizes 16 mm² and above are compact circular stranded.

† Single Earth

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					
2.5	31	29	42	32	16.40
4	42	39	55	41	10.20
6	53	50	67	51	6.800
10	73	68	91	68	4.050
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

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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