



## Versolex<sup>®</sup> Heavy Duty Multicore Flexible Cords & Cables



### Wire & Cable Specification

Construction	
Standard	AS/NZS 3191 (cords) and where applicable AS/NZS 5000.1 (cables)
Voltage	0.6/1 kV
Conductor	Copper
Insulation	Flexible XLPE
Sheath	TPE
Pack Sizes	Cut to length

#### Characteristics

<p><b>Flexibility</b> Doesn't kink</p>	<p><b>Operating Temperature</b> Fixed -40°C to +90°C</p>	<p><b>Water Immersion</b> Submersible to 500m</p>	<p><b>Physical Toughness</b> Durable and resistant to crush and abrasion</p>	<p><b>Oils / Fuels / Solvents</b> Resistant to common oils and solvents</p>	<p><b>Acids / Bases</b> Resistant to common acid and alkaline chemicals</p>	<p><b>Heat Environment</b> Flame retardant Tested to IEC 60332.1 &amp; AS/NZS 1660.5.6</p>	<p><b>Environmental Exposure</b> Resistant to ozone and UV</p>
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#### Application

Versolex<sup>®</sup> multi-core power cables complement and substitute for low end PVC/PVC and high end EPR/CPE configurations in general purpose industrial, commercial, OEM and mining applications, including switchgear, welding, submersible and VSD.

#### Technical Information (Current Rating)

Conductor Size mm <sup>2</sup>	CORDS			
	Current Rating amps	Voltage Drop (mV/A.m)		
		Single Phase	Three Phase	
1	10	47.5	41.1	
1.5	16	32.3	28.0	
2.5	20	19.4	16.8	
4	25	12.0	10.4	

Conductor Size mm <sup>2</sup>	CABLES						Voltage Drop mV/A.m
	Unenclosed		Enclosed	Buried Direct	Underground Ducts		
	Spaced from Surface	Touching	Conduit in Air				
<b>Single Phase (Two core)</b>							
6	61	56	44	77	59	8.42	
<b>Three Phase (Three and Four Core)</b>							
6	51	48	41	65	49	7.29	
10	71	67	57	89	67	4.38	
16	95	89	75	115	87	2.68	
25	125	115	105	150	115	1.62	
35	155	145	125	175	140	1.19	
50	200	185	155	220	170	0.902	
70	250	235	190	265	210	0.608	
95	305	285	225	310	250	0.485	

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

#### Item Codes

Codes available on next page.

**Head Office** Paraitē Road Bell Block New Plymouth New Zealand  
 Phone 0800 OLEX NZ (653 969) Website [www.olex.co.nz](http://www.olex.co.nz)

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## Item Codes

Material No.	Old Code	Cores x Area mm <sup>2</sup>	Sheath	Nom Dia mm	Gland Size A2 or A2F	Approx Mass kg/m
<b>Two Core</b>						
CFGR03AA002CXJJ	7355	2 x 1.0	BK	7.9	20S	0.07
CFGR04AA002CXJJ	1006	2 x 1.5	BK	8.9	20S	0.09
CFGR05AA002CXJJ	1027	2 x 2.5	BK	10.2	20S	0.13
<b>Two Core Plus Earth</b>						
EFGR03AA003CXKA	1130	2 x 1.0 + 1.0 E	BK	8.5	20S	0.09
EFGR03AA003OMKA	9576	2 x 1.0 + 1.0 E	OG	8.5	20S	0.09
EFGR04AA003CXKA	1228	2 x 1.5 + 1.5 E	BK	9.5	20S	0.12
EFGR04AA003OMKA	4491	2 x 1.5 + 1.5 E	OG	9.5	20S	0.12
EFGR05AA003CXKA	1260	2 x 2.5 + 2.5 E	BK	10.9	20	0.16
EFGR05AA003OMKA	9653	2 x 2.5 + 2.5 E	OG	10.9	20	0.16
EFGR06AA003CXKA	1376	2 x 4 + 4 E	BK	12.4	20	0.23
EFGR06AA003OMKA	6947	2 x 4 + 4 E	OG	12.4	20	0.23
FEHR07AA003CXTD	1430	2 x 6 + 6 E	BK	13.4	25	0.30
FEHR07AA003OMTD	9078	2 x 6 + 6 E	OG	13.4	25	0.30
<b>Three Core Plus Earth or Three Core Plus Three Earths</b>						
GFGR03AA004CXSA	3811	3 x 1.0 + 1.0 E	BK	9.4	20S	0.11
GFGR03AA004OMSA	1373	3 x 1.0 + 1.0 E	OG	9.4	20S	0.11
GFGR04AA004CXSA	2595	3 x 1.5 + 1.5 E	BK	10.5	20S	0.14
GFGR04AA004OMSA	4271	3 x 1.5 + 1.5 E	OG	10.5	20S	0.14
GFGR05AA004CXSA	2621	3 x 2.5 + 2.5 E	BK	12.0	20	0.20
GFGR05AA004OMSA	3724	3 x 2.5 + 2.5 E	OG	12.0	20	0.20
GFGR06AA004CXSA	2693	3 x 4 + 4 E	BK	13.6	25	0.29
GFGR06AA004OMSA	5015	3 x 4 + 4 E	OG	13.6	25	0.29
FTAR07AA003CXRW	2751	3 x 6 + 4.5 SE <sup>†</sup>	BK	15.3	25	0.38
FTAR07AA003OMPF	5116	3 x 6 + 4.5 SE <sup>†</sup>	OG	15.3	25	0.38
<b>Three Core Plus Earth or Three Core Plus Three Earths</b>						
FTAX01AA003CXRW	3915	3 x 10 + 4.5 SE <sup>†</sup>	BK	16.6	25	0.50
FTAX02AA003CXRW	3960	3 x 16 + 7.5 SE <sup>†</sup>	BK	18.9	25	0.72
FTAX03AA003CXRW	4615	3 x 25 + 12 SE <sup>†</sup>	BK	22.0	32	1.08
FTAX04AA003CXRW	4004	3 x 35 + 18 SE <sup>†</sup>	BK	24.7	40	1.47
FTAX05AA003CXRW	4041	3 x 50 + 30 SE <sup>†</sup>	BK	28.4	40	2.05
FTAX06AA003CXRW	4128	3 x 70 + 30 SE <sup>†</sup>	BK	33.0	50S	2.79
FTAX07AA003CXRW	4214	3 x 95 + 48 SE <sup>†</sup>	BK	36.7	50	3.71
<b>Four Core Plus Earth</b>						
BWBR03AA005CXSB	7875	4 x 1.0 + 1.0 E	BK	10.4	20	0.13
BWBR04AA005CXSB	5180	4 x 1.5 + 1.5 E	BK	11.5	20	0.17
BWBR05AA005CXSB	6482	4 x 2.5 + 2.5 E	BK	13.2	25	0.24
BWBR06AA005CXSB	6534	4 x 4 + 4 E	BK	15.2	25	0.36
BWBR07AA005CXLR	6669	4 x 6 + 6 E	BK	16.4	25	0.45
BWBX01AA005CXLR	6830	4 x 10 + 10 E	BK	19.1	32	0.70
BWBX02AA005CXLR	7016	4 x 16 + 16 E	BK	22.1	32	1.01
BWBX03AA005CXLR	7227	4 x 25 + 25 E	BK	26.3	40	1.52
BWBX04AA005CXLR	7386	4 x 35 + 35 E	BK	31.1	40	2.07
BWBX05AA005CXLR	9116	4 x 50 + 50 E	BK	34.7	50S	2.85

### Core Colours

No. Cores	Colour
2	BN, Lt BU
3 (≤ 4mm <sup>2</sup> )	BN, Lt BU, GNYE
3 (≥ 6mm <sup>2</sup> )	RD, BK, GNYE
4 (≤ 4mm <sup>2</sup> )	BN, WH, Lt BU, GNYE
4 (≥ 6mm <sup>2</sup> )	RD, NAT, BU, GNYE
5 (≤ 4mm <sup>2</sup> )	BN, OG, WH, Lt BU, GNYE
5 (≥ 6mm <sup>2</sup> )	RD, NAT, BU, BK, GNYE

<sup>†</sup> Combined Earth Size

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