



Versolex[®] Heavy Duty Braided VSD/Submersible Cords & Cables



Wire & Cable Specification

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

Characteristics

Flexibility	Operating Temperature	Water Immersion	Physical Toughness	Oils / Fuels / Solvents	Acids / Bases	Heat Environment	Electromagnetic Compatibility
Doesn't kink	Fixed -40°C to +90°C	Submersible to 500m	Durable and resistant to crush and abrasion	Resistant to common oils and solvents	Resistant to common acid and alkaline chemicals	Flame retardant Tested to IEC 60332.1 & AS/NZS 1660.5.6	Designed for applications with EMC requirements

Application

Versolex[®] 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)

CORDS				
Conductor Size mm ²	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	

CABLES						
Conductor Size mm ²	Unenclosed		Enclosed	Buried Direct	Underground Ducts	Voltage Drop mV/A.m
	Spaced from Surface	Touching	Conduit in Air			
Single Phase (Two core)						
6	61	56	44	77	59	8.42
Three Phase (Three and Four Core)						
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.

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Item Codes

Material No.	Old Code	Cores x Area mm ²	Sheath	Nom Dia mm	Gland Size CX/Z	Approx Mass kg/m
Two Core Plus Earth						
EATR04AA003BKKA	1844	2 x 1.5 + 1.5 E	BK	11.3	20S	0.21
EATR04AA003OGAA	4518	2 x 1.5 + 1.5 E	OG	11.3	20S	0.21
Three Core Plus Earth or Three Core Plus Three Earths						
GETR04AA004CXSA	9895	3 x 1.5 + 1.5 E	BK	13.4	20S	0.24
GETR04AA004OGSA	1030	3 x 1.5 + 1.5 E	OG	13.4	20S	0.24
GETR05AA004CXSA	1127	3 x 2.5 + 2.5 E	BK	14.9	20S	0.31
GETR06AA004CXSA	3230	3 x 4 + 4 E	BK	16.4	20	0.40
FTTR07AA003CXPF	2983	3 x 6 + 4.5 SE [†]	BK	18.1	25	0.41
FTTX01AA003CXPF	5506	3 x 10 + 4.5 SE [†]	BK	19.4	25	0.65
FTTX02AA003CXPF	7310	3 x 16 + 7.5 SE [†]	BK	22.1	25	0.95
FTTX03AA003CXPF	4067	3 x 25 + 12 SE [†]	BK	25.3	32	1.33
FTTX04AA003CXPF	9296	3 x 35 + 18 SE [†]	BK	27.9	32	1.73
FTTX05AA003CXPF	6118	3 x 50 + 30 SE [†]	BK	30.1	40	2.29
FTTX06AA003CXPF	5393	3 x 70 + 30 SE [†]	BK	37.5	50S	3.25
FTTX07AA003CXPF	9786	3 x 95 + 48 SE [†]	BK	41.6	50S	4.26
Four Core Plus Earth						
BWTR06AA005CXLR	4308	4 x 4 + 4 E	BK	18.1	20	0.47
BWTR07AA005CXLR	6740	4 x 6 + 6 E	BK	20.1	25	0.58
BWTR01AA005CXLR	3684	4 x 10 + 10 E	BK	22.1	25	0.83

Core Colours

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

[†] Combined Earth Size

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