

New Versolex[®]

Flexibility. Performance. Value.



New technology plastomer adds versatility

New Versolex[®] single and 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. Versolex[®] owes its excellent electrical and environmental properties to advanced cross-linked flexible polyolefin insulation combined with thermoplastic elastomer sheathing.

Insulation properties

Tensile strength



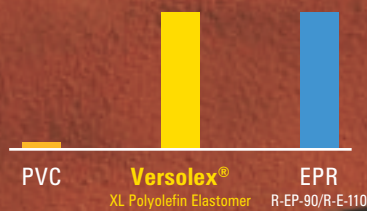
Electrical resistivity



Resistance to water ingress



Hot set performance



High flexibility

Doesn't kink. Compact and lightweight for both fixed and flexible applications.



Acids and bases

Resistant to a range of acid and alkaline chemicals.



Water immersion

Permanently submersible to 500m. Water and moisture resistant.



Oil/fuel/solvents

Resistant to a range of oils and solvents.



Heat environment

Flame retardant. Tested to IEC 60332.1 and AS/NZS 1660.5.6.



Operating temperature

Withstands cold and heat, sustaining flexibility from -40 to +90°C.



Environmental exposure

Resistant to ozone and UV.



Physical toughness

Durable and resistant to cut-through, crush and abrasion.



Electromagnetic compatibility

Screened range designed for applications with EMC requirements.











Versolex® HD Single core Submersible 0.6/1kV

Construction 0.6/1kV cables, flexible XLPE insulated and TPE sheathed to AS/NZS 5000.1 and AS/NZS 1995, copper conductors, 90°C.



Nominal conductor area	Maximum diameter of wires	Nominal overall diameter	Approx. mass	Product code	Current carrying capacity, [†] Unenclosed				Three phase voltage drop	
					Spaced	Spaced	Spaced from surface	Touching	mV/A.m	
mm ²	mm	mm	kg/100m							
					A	A	A	A		
10	0.21	8.5	14.0	BDSX01AA001	92	80	69	64	4.22	4.22
16	0.21	9.8	20.2	BDSX02AA001	120	105	91	85	2.68	2.68
25	0.21	11.3	29.7	BDSX03AA001	160	140	120	115	1.73	1.73
35	0.21	12.6	39.5	BDSX04AA001	200	175	150	140	1.23	1.24
50	0.31	14.2	53.6	BDSX05AA001	250	225	190	180	0.868	0.873
70	0.31	16.2	74.4	BDSX06AA001	315	285	240	225	0.621	0.628
95	0.31	18.3	99.3	BDSX07AA001	380	345	290	270	0.479	0.488
120	0.51	20.7	125	BDSE87AA001	440	405	345	320	0.386	0.397
150	0.51	22.6	150	BDSE88AA001	510	465	400	370	0.322	0.335
185	0.51	24.6	179	BDSE89AA001	590	540	460	430	0.277	0.292
240	0.51	27.7	240	BDSE90AA001	710	650	550	520	0.229	0.246
300	0.51	31.0	290	BDSE91AA001	820	760	640	600	0.202	0.221
400	0.51	35.4	389	BDSE92AA001	990	920	770	720	0.179	0.199
500	0.51	40.0	498	BDSE93AA001	1120	1040	870	810	0.166	0.189
630	0.51	44.0	629	BDSE94AA001	1320	1230	1010	940	0.156	0.179

Standard colours

	Main cond. area	Sheath colour (metre marked)	Insulation colours	Code
Single Core SDI	All sizes	Orange (OM)	Natural	NA
2 Core	≤ 4 mm ²	Black (CX)	Brown, light blue	JJ
2 Core + Earth	≤ 4 mm ²	Black (CX)	Brown, light blue, green/yellow	KA
	≥ 6 mm ²	Black (CX)	Red, black, green/yellow	TD
3 Core + Earth	≤ 4 mm ²	Black (CX)	Brown, black, light blue, green/yellow	SA
3 Core + 3 Earth	≥ 6 mm ²	Black (CX)	Red, natural, blue, green/yellow	PF
4 Core + Earth	≤ 4 mm ²	Black (CX)	Brown, black, natural, light blue, green/yellow	SB
	≥ 6 mm ²	Black (CX)	Red, natural, blue, black, green/yellow	LR

[†]At present conduit ratings differ significantly from AS 3008.1. AS 3008.1 is in the process of being revised and closer alignment will be seen when AS 3008.1 is re-issued. Ratings are based on an air ambient of 40°C and a ground temperature of 25°C. For current ratings of other types of applications, including welding cable applications, and other data including conductor resistances, refer to the current Olex Cable Handbook. Minimum bending radius is 4D (D = overall cable diameter).

Versorex[®] HD Unscreened Submersible 0.6/1kV

Construction 0.6/1kV cords and cables, flexible XLPE insulated and TPE sheathed to AS/NZS 3191 (cords) and where applicable AS/NZS 5000.1 (cables), copper conductors, 90°C.



Nom. cond. area mm ²	Max. dia. of wires mm	Nom. ins. thick. mm	Nom. sheath thick. mm	Nom. overall dia. mm	Approx. mass kg/100m	Product code
2C						
0.75	0.21	0.7	1.3	7.6	7	CFGR02AA002
1	0.21	0.7	1.3	7.9	8	CFGR03AA002
1.5	0.26	0.7	1.5	8.9	10	CFGR04AA002
2.5	0.26	0.7	1.7	10.2	14	CFGR05AA002
4	0.31	0.7	1.8	11.5	19	CFGR06AA002
3C (2C+E)						
0.75	0.21	0.7	1.4	8.2	8	EFGR02AA003
1	0.21	0.7	1.4	8.6	9	EFGR03AA003
1.5	0.26	0.7	1.6	9.5	12	EFGR04AA003
2.5	0.26	0.7	1.8	10.9	17	EFGR05AA003
4	0.31	0.7	1.9	12.3	24	EFGR06AA003
6	0.31	0.7	1.8	14.7	32	FEHR07AA003
4C (3C+E or 3C+3E)						
0.75	0.21	0.7	1.5	9.0	10	GFGRO2AA004
1	0.21	0.7	1.5	9.4	11	GFGRO3AA004
1.5	0.26	0.7	1.7	10.5	15	GFGRO4AA004
2.5	0.26	0.7	1.9	12.0	21	GFGRO5AA004
4	0.31	0.7	2.0	13.5	29	GFGRO6AA004
6	0.31	0.7	1.8	14.5	33	FTAR07AA003
10	0.21	0.7	1.8	16.6	48	FTAX01AA003

Nom. cond. area mm ²	Max. dia. of wires mm	Nom. ins. thick. mm	Nom. sheath thick. mm	Nom. overall dia. mm	Approx. mass kg/100m	Product code
4C (3C+E or 3C+3E) continued						
16	0.21	0.8	1.8	18.9	71	FTAX02AA003
25	0.21	0.9	1.8	22.1	105	FTAX03AA003
35	0.21	0.9	1.8	25.4	144	FTAX04AA003
50	0.31	1.0	1.8	28.2	200	FTAX05AA003
70	0.31	1.1	2.0	33.1	268	FTAX06AA003
95	0.31	1.1	2.2	37.4	363	FTAX07AA003
120	0.51	1.2	2.2	41.3	442.3	FTAE87AA003
5C (4C+E)						
0.75	0.21	0.7	1.6	10.1	12	BWBR02AA005
1	0.21	0.7	1.6	10.6	13	BWBR03AA005
1.5	0.26	0.7	1.8	11.7	17	BWBR04AA005
2.5	0.26	0.7	2.0	13.4	23	BWBR05AA005
4	0.31	0.7	2.2	15.5	34	BWBR06AA005
6	0.31	0.7	1.8	17.5	44	BWBR07AA005
10	0.21	0.7	1.8	19.2	67	BWBX01AA005
16	0.21	0.8	1.8	22.1	97	BWBX02AA005
25	0.21	0.9	1.8	26.8	146	BWBX03AA005
35	0.21	0.9	1.9	31.0	198	BWBX04AA005
50	0.31	1.0	2.1	35.1	276	BWBX05AA005
70	0.31	1.1	2.3	41.0	386	BWBX06AA005

Alco gland selection chart

Item number	Mounting thread dia. × length mm	Tightening torque Nm	Diameter			Gland length			Cable details			
			across flats mm	uncompressed mm	compressed mm	uncompressed mm	compressed mm	Varolex [®] product code	Versorex [®] 4C product code	Versorex [®] 5C product code	PVC shroud (orange)	
ALCEMC16	M16 × 12	9	27.5	58	43							ALCSG2
ALCEMC20	M20 × 12	13	32.5	58	43	FTDP07,P09	GETR04,R05,R06	BWTR04,R05				ALCSG3
ALCEMC25	M25 × 12	21	37.5	61	45	FTDP11*,P13,P15	FTTR07,X01	BWTR07				ALCSG3
ALCEMC32	M32 × 12	34	37.5	62	46	FTDC17,C18	FTTX02,X03	BWTR07				ALCSG3
ALCEMC40	M40 × 15	53	47.5	72	54	FTDC19,C20	FTTX04,X05	BWTR07				ALCSG5
ALCEMC50	M50 × 15	83	57.5	80	60	FTDC22	FTTX06,X07	BWTR07				ALCSG6
ALCEMC63	M63 × 19	132	70	96	75	FTDP23,P24		BWTR07				ALCSG7
ALCEMC75A	M75 × 19	188	85	105	80	FTDP25						
ALCEMC75B	M75 × 19	188	85	111	83	FTDP26						



Versorex[®] HD Screened VSD/Submersible 0.6/1kV

Construction 0.6/1kV flexible XLPE insulated, TPE bedded, copper wire braid screened, TPE sheathed to AS/NZS 3191 (cords) and AS/NZS 5000.1 (cables), copper conductors, 90°C.



Nom. cond. area mm ²	Max. dia. of wires mm	Nom. ins. thick. mm	Nom. dia. under braid mm	Nom. sheath thick. mm	Nom. overall dia. mm	Approx. mass kg/100m	Product code
4C (3C+E or 3C+3E)							
1.5	0.26	0.7	9.1	1.7	13.4	24	GETR04AA004
2.5	0.26	0.7	10.2	1.9	14.9	31	GETR05AA004
4	0.31	0.7	11.5	2.0	16.4	40	GETR06AA004
6	0.31	0.7	14.2	1.8	18.7	48	FTTR07AA003
10	0.21	0.7	15.0	1.8	19.5	62	FTTX01AA003
16	0.21	0.8	17.3	1.8	21.8	87	FTTX02AA003
25	0.21	0.9	20.5	1.8	24.1	124	FTTX03AA003
35	0.21	0.9	23.3	1.8	26.9	164	FTTX04AA003
50	0.31	1.0	26.6	1.8	31.1	224	FTTX05AA003
70	0.31	1.1	31.5	2.0	35.5	299	FTTX06AA003
95	0.31	1.1	35.4	2.2	39.8	398	FTTX07AA003

Nom. cond. area mm ²	Max. dia. of wires mm	Nom. ins. thick. mm	Nom. dia. under braid mm	Nom. sheath thick. mm	Nom. overall dia. mm	Approx. mass kg/100m	Product code
5C (4C+E)							
1.5	0.26	0.7	10.1	1.8	14.6	27	BWTR04AA005
2.5	0.26	0.7	11.4	2	16.3	35	BWTR05AA005
4	0.31	0.7	12.8	2.2	18.1	47	BWTR06AA005
6	0.31	0.7	15.6	1.8	20.1	58	BWTR07AA005
10	0.21	0.7	17.6	1.8	22.1	83	BWTR01AA005
16	0.21	0.8	20.5	1.8	25	116	BWTR02AA005
25	0.21	0.9	25.2	1.8	29.7	168	BWTR03AA005
35	0.21	0.9	28.7	1.9	33.4	224	BWTR04AA005
50	0.31	1.0	33.3	2.1	38.4	308	BWTR05AA005
70	0.31	1.1	38.8	2.3	44.3	424	BWTR06AA005

Current carrying capacity – Flexible installation

Nominal conductor area mm ²	Current carrying capacity A	Voltage drop 1 phase mV/A.m	Voltage drop 3 phase mV/A.m
0.75	7.5	63.3	54.8
1.0	10	47.5	41.1
1.5	15	32.3	28
2.5	20	19.4	16.8
4.0	25	12	10.4

Nominal conductor area mm ²	Single phase		Three phase	
	Protected from sun	Exposed to sun	Protected from sun	Exposed to sun
6	54	43	46	37
10	74	58	63	50
16	99	77	85	66
25	135	105	115	88
35	165	125	140	105
50	195	145	165	125
70	250	185	215	155
95	290	210	250	180
120	340	245	290	210

Current carrying capacity – Fixed installation

Conductor area mm ²	Unenclosed Spaced A	Unenclosed Touching A	Voltage drop mV/a.m
Single Phase (2 Core)			
1	19	18	49.8
1.5	24	22	34.0
2.5	33	30	20.3
4	43	41	12.6
6	55	51	8.42
Three Phase (3 and 4 Core)			
1	17	15	43.1
1.5	20	19	29.4
2.5	27	25	17.6
4	37	34	10.9
6	46	43	7.29
10	65	61	4.38
16	86	81	2.68
25	115	105	1.62
35	140	130	1.19
50	180	170	0.902
70	230	215	0.608
95	275	255	0.485
120	320	295	0.387

Olex – the leader in industrial cables

Industrial Olex offers a range of power cables for all applications from small appliances to heavy industrial. The multipurpose Versolex[®] cable provides the high performance of rubber elastomers at an economical price. Varolex[®] is EMC cable designed by Olex for AC variable speed drive applications. The EMC features of Versolex[®] make it an alternative to Varolex[®] where high flexibility is desired.

Fire Rated Pyrolex[™] is a complete range of fire performance cables. Tested to Australian and international standards, the Pyrolex[™] range is flame retardant, halogen free, low smoke and low acidity. Olex' world-first Ceramifiable[®] cable features a unique polymer which hardens under fire to protect circuit integrity. By eliminating stiff tapes, ease of handling and installation is dramatically improved.

Data/Comms Instrumentation cables are required to transmit clean signals within electrically noisy and often hazardous environments. These 'mission critical' applications demand the highest cable quality, reliability and consistent performance. Olex Dekoron[®] is manufactured exclusively in Australia under license from Cable USA.

Mining Designed to meet international standards and specific needs of the industry both in Australia and overseas, Olex mining cables owe their quality and toughness to our understanding of materials technology, particularly rubber compounds, and our field experience and applications know how.

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