

XLPE CABLES
XLPE ALUMINIUM SDI 0.6/1 kV

Cable description

Single Core Cable, Aluminium Conductor, X-90 XLPE Insulated, 5V-90 PVC Sheathed, to AS/NZS 5000.1.

Note: Class 2 Compacted Conductor.

Characteristics

Catalogue reference	Nominal conductor area mm ²	Approx. overall diameter mm	Approx. mass kg/100 m	Min. installed bending radius mm
25CALXLP	25	10.9	15	85
35CALXLP	35	11.9	18	95
50CALXLP	50	13.1	23	105
70CALXLP	70	15.0	31	120
95CALXLP	95	16.9	40	135
120CALXLP	120	18.5	48	145
150CALXLP	150	20.4	58	165
185CALXLP	185	22.6	73	180
240CALXLP	240	25.3	93	200
300CALXLP	300	28.0	114	225
400CALXLP	400	31.5	145	250
500CALXLP	500	35.2	180	280
630CALXLP	630	39.6	230	315

Note: Low Smoke Zero Halogen version available.

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CURRENT RATINGS

2 SINGLE CORE (AL) 90°C

Cable description:

2 Single Core LV, Aluminium Conductor, Sheathed and Unsheathed Non-Armoured Cables with X-90 XLPE, R-EP-90 EPR, R-CPE-90, R-CSP-90, or R-HF-90 LSOH Insulation. Based on AS/NZS 3008.1.1.

Nominal conductor area mm ²	Unenclosed				Enclosed	Thermal insulation		Buried direct	Underground wiring enclosure		Single phase voltage drop (@ 50Hz & 90°C) mV/A.m
	Spaced	Spaced from surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation				
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16	87	84	67	50	65	52	33	107	78	87	4.91
25	117	112	91	66	87	70	45	139	102	114	3.08
35	144	137	111	81	105	84	56	167	122	136	2.24
50	177	167	136	99	129	103	-	198	147	164	1.65
70	226	212	174	124	159	127	-	243	181	200	1.15
95	280	262	216	153	198	158	-	291	221	239	0.839
120	328	305	253	178	226	181	-	332	252	278	0.672
150	377	350	291	204	255	204	-	372	283	311	0.557
185	439	406	340	236	301	241	-	423	329	359	0.455
240	527	485	408	280	360	288	-	492	388	417	0.363
300	612	562	473	323	-	-	-	556	440	482	0.307
400	723	660	559	377	-	-	-	638	516	553	0.261
500	850	772	656	439	-	-	-	729	590	632	0.227
630	1003	904	772	511	-	-	-	833	695	740	0.204

Note:

Refer to Cable Selection in Technical Cable Guide for more information and data based on AS/NZS 3008.1.1.

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CURRENT RATINGS

3 SINGLE CORE (AL) 90°C

Cable description:

3 Single Core LV, Aluminium Conductor, Sheathed and Unsheathed Non-Armoured Cables with X-90 XLPE, R-EP-90 EPR, R-CPE-90, R-CSP-90, or R-HF-90 LSOH Insulation. Based on AS/NZS 3008.1.1.

Nominal conductor area mm ²	Unenclosed				Enclosed	Thermal insulation		Buried direct	Underground wiring enclosure		Three phase voltage drop (@ 50Hz & 90 °C) mV/A.m	
	Spaced	Spaced from surface	Touching	Exposed to sun	Wiring enclosure in air	Partially surrounded by thermal insulation	Completely surrounded by thermal insulation					
16	84	71	67	50	56	45	33	91	66	79	4.25	4.25
25	113	97	91	66	75	60	45	117	87	103	2.67	2.67
35	140	119	111	81	93	75	56	140	106	122	1.94	1.94
50	171	146	136	99	111	89	-	166	126	147	1.43	1.44
70	219	186	174	124	142	114	-	203	158	180	0.997	1.00
95	271	232	216	153	171	137	-	243	190	214	0.727	0.733
120	318	271	253	178	203	162	-	277	221	248	0.582	0.589
150	366	313	291	203	229	183	-	310	249	277	0.482	0.491
185	427	365	339	235	261	209	-	352	283	321	0.394	0.404
240	513	438	407	280	312	250	-	409	333	371	0.314	0.327
300	596	508	472	322	368	294	-	463	385	430	0.266	0.281
400	705	599	557	376	424	339	-	530	442	491	0.226	0.243
500	829	703	652	437	509	407	-	604	520	559	0.197	0.216
630	978	824	765	507	583	466	-	688	593	654	0.177	0.198

Note:

Refer to Cable Selection in Technical Cable Guide for more information and data based on AS/NZS 3008.1.1.

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