

XLPE CABLES 0.6/1 KV
4C+E XLPE CIRCULAR

Application

Suitable for mains, submains and subcircuits unenclosed, in conduit, buried or in underground ducts for buildings and industrial plants where not subject to mechanical damage and where out of balance currents may require a neutral equal in size to the active. Suitable where space is at a premium and/or where conditions of overload may occur.

Approvals

Suitable for fixed installations only, in accordance with AS/NZS 5000.1

PVC Best practice guidelines – GBCA

Behaviour in flame and fire:

Flame Retardant

Temperature range

Maximum operating temperature: +90°C

Minimum operating temperature: -15°C

Minimum bending radius

Diameter 25.0 mm and below:

Installed cables: 4D

During installation: 6D

Greater than 25.0 mm:

Installed cables: 6D

During installation: 9D

Resistance to

Chemical exposure: Occasional

Mechanical impact: Light

Water exposure: Occasional condensation

Solar radiation and

weather exposure: Occasional

Cable design

Conductor:

Plain annealed copper conductor to AS/NZS 1125 (Class 2).

Insulation:

X-90 XLPE

Colour: Red, White, Blue, Black, Green/yellow

Sheath:

5V-90 PVC

Colour: Orange

Installation conditions

Industrial equipment

In free air

In conduit

Machines

Min. installation temperature: -0°C

In trench

In ground with protection

In duct

External building

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Physical & electrical characteristics

Product code	Conductor			Cable				Min. installed bending radius mm
	Nominal C.S.A. mm ²	Number and diameter of wires No/mm	Nominal diameter mm	Nominal insulation thickness mm	Overall diameter mm		Approx. mass kg/100 m	
					Minimum	Maximum		
164CEXP	16	7/1.65	4,95	0,7	19,59	21,6	87,2	85
254CEXP	25	19/1.35	6.8	0.9	24.0	25.1	132	150
354CEXP	35	19/1.53	7.7	0.9	26.8	28.1	175	170
504CEXP	50	19/1.78	8.9	1.0	30.8	32.2	237	190
704CEXP	70	19/2.14	10.7	1.1	36.1	37.3	328	220
954CEXP	95	19/2.45	12.5	1.1	40.6	42.1	439	250
1204CEXP	120	37/2.03	14.2	1.2	45.3	46.7	550	280
1504CEXP	150	37/2.25	15.8	1.4	50.7	52.3	684	310
1854CEXP	185	37/2.52	17.6	1.6	57.0	58.6	862	350
2404CEXP	240	61/2.25	20.3	1.7	64.4	66.2	1127	400
3004CEXP	300	61/2.52	22.7	1.8	71.3	73.3	1407	440

Conductor nominal C.S.A. mm ²	Current rating (a)			Electrical characteristics	
	Unenclosed spaced A	Buried direct A	Underground in duct A	Maximum D.C. resistance at 20°C Ω/km	Three phase* voltage drop (50Hz & 90°C) mV/A.m
16	88	110	81	1,15	2,55
25	120	145	110	0.727	1,61
35	145	170	135	0.524	1,17
50	180	205	160	0.387	0,868
70	230	250	200	0.268	0,609
95	285	300	240	0.193	0,450
120	330	345	275	0.153	0,366
150	375	385	310	0.124	0,307
185	435	435	355	0.0991	0,259
240	520	500	420	0.0745	0,216
300	590	570	475	0.0601	0,190

(a) Based on 90°C conductor temperature, 40°C ambient air temperature and where applicable, burial depth of 0.5 m, soil temperature of 25°C and soil thermal resistivity of 1.2°C.m/W. Refer to AS/NZS 3008.1 for other installation conditions.

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