

# 2 Core Circular TPS



## 0.6/1kV 2 Core

**XLPE/PVC Insulated, PVC Sheathed Cable**

**Description: 0.6/1kV CU/XLPE/PVC/PVC ASNZS5000.1**



**Application:** This cable can be used for mains power supply in switchboards and power stations. It can be installed in trenches, cable duct and cable trunking.

**Voltage Rating:** 0.6/1kV

**Construction:** Plain Annealed Copper, Circular

Non-Compacted. Class 2, AS/NZS1125

**Insulation:** PVC – 1.5mm – 10mm, XLPE (XF90) 16mm – 120mm  
ASNZS3808

**Outer Sheath:** Extruded Polyvinyl Chloride Compound

(PVC/SV-90), Colour - Black

**Sheath Option:** HFS (Halogen Free) – LSZH, PVC 5V-90 Anti-Rodent Protection

**Bending Radius:** 15 x OD

Part Number	No of cores and nominal cross section area [mm]	Nominal Thickness of insulation [mm]	Thickness of PVC Outer sheath	Earth Conductor cross section	Overall diameter App.	Net weight	D. C. resistance of conductor 20°C (Ω/km)
	No*Section	Phase core	[mm]	[mm]	[mm]	[kg/m]	Voltage withstand test(kV)-3.5
21.5ECIR	2*1.5	0.8	1.8	1.5	11.1	0.158	13.600
22.5ECIR	2*2.5	0.8	1.8	2.5	12.2	0.204	7.410
24ECIR	2*4	1.0	1.8	2.5	13.5	0.260	4.610
26ECIR	2*6	1.0	1.8	2.5	14.6	0.260	3.080
210ECIR	2*10	1.0	1.8	4	16.5	0.430	1.830
216EXLCIR	2*16	0.7	1.8	6	16.9	0.519	1.150
225EXLCIR	2*25	0.9	1.8	6	20.2	0.782	0.727
235EXLCIR	2*35	0.9	1.8	10	22.1	1.030	0.524
250EXLCIR	2*50	1.0	1.8	16	25.0	1.397	0.387
270EXLCIR	2*70	1.1	1.8	25	28.8	1.871	0.268
295EXLCIR	2*95	1.1	1.9	25	32.4	2.398	0.193
2120EXLCIR	2*120	1.2	2.1	35	36.0	3.006	0.153

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of ICSLTD is indicative only and shall not be binding on ICSLTD or be treated as constituting a representation on the part of ICSLTD.

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## Current Carrying Capacity

### Two Core Sheathed

Reference Ambient Temperature: 30°C in air and 15°C in ground

Conductor Size	Unenclosed Spaced	Unenclosed Touching	Enclosed Touching	Buried Direct	Underground wiring enclosure
[mm]					
10	86	80	69	80	80
16	114	107	90	141	105
25	154	144	121	182	137
35	190	178	145	219	165
50	232	217	178	261	198
70	295	275	220	321	244
95	364	340	275	385	299
120	424	395	314	439	340
150	485	452	365	492	391
185	560	520	415	556	442
240	664	618	493	645	519
300	763	710	575	728	597
400	884	820	656	825	677
500	1007	933	765	922	779
630	-	-	-	-	-

Note: Please be advised that the information contained in this table, along with the typical installation conditions applicable in New Zealand, is sourced from AS/NZS 3008.1.2:2017. This content has been utilised with the express permission of Standards New Zealand under Copyright Licence SZ00025278 and has either been reproduced or adapted. For comprehensive details, we recommend consulting the entire Standard, which can be obtained for purchase directly from Standards New Zealand via [www.standards.co.nz](http://www.standards.co.nz).

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