

# 3 Core Circular TPS



## 0.6/1kV 3 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
31.5ECIR	3*1.5	0.8	1.8	1.5	11.9	0.158	13.600
32.5ECIR	3*2.5	0.8	1.8	2.5	13.2	0.204	7.410
34ECIR	3*4	1.0	1.8	2.5	14.9	0.260	4.610
36ECIR	3*6	1.0	1.8	2.5	15.9	0.312	3.080
310ECIR	3*10	1.0	1.8	4.0	18.2	0.430	1.830
316EXLCIR	3*16	0.7	1.8	6.0	18.4	0.701	1.150
325EXLCIR	3*25	0.9	1.8	6.0	21.3	1.010	0.727
335EXLCIR	3*35	0.9	1.8	10.0	23.7	1.369	0.524
350EXLCIR	3*50	1.0	1.8	16.0	27.0	1.764	0.387
370EXLCIR	3*70	1.1	1.9	25.0	31.7	2.601	0.268
395EXLCIR	3*95	1.1	2.0	25.0	34.8	3.413	0.193
3120EXLCIR	3*120	1.2	2.1	35.0	38.6	4.290	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

### Three and Four Core X-90

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

Conductor Size	Unenclosed Spaced	Unenclosed Spaced from surface	Unenclosed Touching	Enclosed Touching	Buried Direct	Underground wiring enclosure	Underground wiring enclosure
[mm]							
10	89	76	72	62	72	72	85
16	119	101	95	79	125	92	108
25	161	138	129	107	162	121	141
35	198	169	158	132	193	147	169
50	243	207	194	157	229	174	203
70	310	264	246	201	280	217	248
95	385	328	306	242	335	261	295
120	451	384	358	287	381	304	342
150	519	443	413	325	428	342	383
185	616	515	479	369	484	388	442
240	726	616	573	439	560	456	510
300	843	713	662	516	630	525	591
400	989	832	772	587	715	596	670
500	1156	961	893	696	805	693	756
630	1353	1111	1032	785	902	778	877

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