

# Copper Flexible 110°



## 0.6/1kV Single Core

### XLPE Insulated, HFS-110-TP Cable

Description: 0.6/1kV CU/X-HF-110/HFS-110-TP  
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/kV

**Construction:** Plain Annealed Copper, Circular, Class 5 ASNZS1125

**Insulation:** X-HF-110, White, ASNZS3808

**Outer Sheath:** Polyvinyl HFS-110-TP Black (Halogen Free LSZH)  
Fire retardant

**Sheath Option:** Orange Colour

**Bending radius:** 6 x OD

Part Number	No of cores and nominal cross section area [mm]	Nominal Thickness of insulation [mm]	Thickness Of PVC Outer sheath	Overall diameter App.	Maximum wire OD	Diameter of Conductor	Net weight	D. C. resistance of conductor 20°C (Ω/km)
	No*Section	Phase core	[mm]	[mm]	[mm]	[mm]	[kg/m]	Voltage withstand test(kV)-3.5
116CUFLEX	1*16	0.70	1.40	10.10	0.41	5.52	0.279	1.21
125CUFLEX	1*25	0.90	1.40	12.00	0.41	6.89	0.343	0.780
135CUFLEX	1*35	0.90	1.40	13.40	0.41	8.12	0.444	0.554
150CUFLEX	1*50	1.00	1.40	15.10	0.41	9.73	0.540	0.385
170CUFLEX	1*70	1.10	1.40	16.90	0.51	11.5	0.757	0.272
195CUFLEX	1*95	1.10	1.50	18.80	0.51	13.4	1.025	0.206
1120CUFLEX	1*120	1.20	1.50	20.80	0.51	15.08	1.274	0.161
1150CUFLEX	1*150	1.40	1.60	23.20	0.51	16.84	1.854	0.129
1185CUFLEX	1*185	1.60	1.60	25.70	0.51	18.58	1.940	0.106
1240CUFLEX	1*240	1.70	1.70	28.70	0.51	21.38	2.000	0.0801
1300CUFLEX	1*300	1.80	1.80	31.80	0.51	23.9	3.145	0.0641
1400CUFLEX	1*400	2.00	1.90	36.20	0.51	27.43	4.003	0.0486
1500CUFLEX	1*500	2.20	2.00	39.60	0.61	30.87	5.105	0.0384
1630CUFLEX	1*630	2.40	2.20	43.80	0.61	34.82	6.462	0.0287

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# Copper Flexible 110°

Description: 0.6/1kV CU/X-HF-110/HFS-110-TP ASNZS5000.1



## Current Carrying Capacity

Two single core

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	109	105	86	82	93	91	103
16	144	138	112	109	163	119	135
25	190	182	149	142	210	152	173
35	236	225	184	179	252	187	207
50	299	281	233	221	299	228	250
70	376	352	292	281	367	282	305
95	452	423	352	334	441	331	373
120	535	499	417	389	501	381	424
150	617	574	482	456	563	439	475
185	706	654	552	515	637	492	548
240	850	783	664	624	740	581	636
300	980	900	766	.	836	669	736
400	1182	1076	920	.	952	778	837
500	1380	1245	1069	.	1079	906	976
630	1636	1454	1250	.	1217	1036	1108

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# Copper Flexible 110°



Description: 0.6/1kV CU/X-HF-110/HFS-110-TP ASNZS5000.1

Current Carrying Capacity

Three single-core

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	106	91	86	75	82	81	93
16	139	120	112	97	138	103	122
25	185	159	149	129	178	133	157
35	229	197	184	158	213	160	187
50	289	249	232	203	251	199	225
70	364	312	292	250	308	243	275
95	439	378	352	296	369	284	334
120	521	447	417	354	420	335	378
150	601	516	482	404	472	378	424
185	689	592	552	469	533	428	489
240	829	712	663	576	618	510	565
300	958	820	764	655	696	575	654
400	1155	982	915	810	791	687	742
500	1348	1138	1059	924	894	773	864
630	1598	1327	1235	1063	1004	878	975

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