

Treoflex – Flexible Earth 0.6/1kV Low Smoke Halogen Free 110°C

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Technical Data

- Special soft cross linked X-HF-110
- **Temperature range**
-40°C to + 110°C
- **Nominal voltage**
0.6/1kV
- **Bending radius**
6 x cable diameter

Cable Structure

- Tinned copper conductors for sizes 0.75mm² to 6mm²
- Annealed bare copper conductors for size 10mm² and over
- Class 6 fine stranding
- Insulation of special Soft X-HF-110

Properties

- Low Smoke Halogen Free (LSHF, LSOH, LSZH)
- UV Stabilised
- Flame Retardant

Relevant Standards

AS/NZS1125, AS/NZS3808, IEC60332-1, IEC60332-3(A), IEC 61034, AS/NZS5000.1

Application

Flexible single core earth cable for use in switchboards, mains and sub-mains, transformers and generators.

Part Number	Size mm ²	Nominal Stranding	Thickness of Insulation mm	Cable Diameter mm	Approx Weight Kg/Km	Conductor Resistance @ 20° Ω/Km	Voltage Drop @50Hz MV/A
TA4.0100.01	10	320/0.20	0.7	5.7	115	1.91	4.3
TA4.0160.01	16	512/0.20	0.7	6.9	172	1.21	2.71
TA4.0250.01	25	800/0.20	0.9	8.7	269	0.78	1.72
TA4.0350.01	35	1120/0.20	0.9	9.9	363	0.554	1.25
TA4.0500.01	50	705/0.30	1.0	11.9	513	0.386	0.929
TA4.0700.01	70	990/0.30	1.1	12.1	700	0.272	0.657
TA4.0950.01	95	1340/0.30	1.1	14.3	949	0.206	0.491
TA4.1200.01	120	1690/0.30	1.2	15.9	1182	0.161	0.403
TA4.1500.01	150	2123/0.30	1.4	17.9	1477	0.129	0.344
TA4.1850.01	185	1470/0.30	1.6	19.9	1826	0.106	0.296
TA4.2400.01	240	1905/0.30	1.7	21.9	2362	0.080	0.252
TA4.3000.01	300	2385/0.30	1.8	25.6	2927	0.064	0.227

Minimum size of copper earthing conductor

Nominal area active mm ²	Cu Earth mm ²	Nominal area active mm ²	Cu Earth mm ²
2.5	2.5	95	25
4	2.5	120	35
6	2.5	150	50
10	4	185	70
16	6	240	95
25	6	300	120
35	10	400	120
50	16	500	120
70	25	630	120

A.W.G conversion to mm²

A.W.G	Dia mm	mm ²	A.W.G	Dia mm	mm ²
0000 (4/0)	11.68	107.3	10	2.59	5.3
000 (3/0)	10.4	85	12	2.05	3.3
00 (2/0)	9.27	67.4	14	1.63	2.1
0	8.25	53.5	16	1.29	1.3
2	6.54	33.6	18	1.02	0.8
4	5.19	21.2	20	0.81	0.5
6	4.12	13.3	22	0.64	0.3
8	3.25	8.4	24	0.51	0.2