

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



Technical Data

Extra flexible special LSHF R-E-110

- **Temperature range**
-40°C to + 110°C
- **Nominal voltage**
0.6/1kV
- **Bending radius**
6 x cable diameter

Cable Structure

- Annealed bare copper conductors
- Class 6 fine stranding
- Insulation of special R-E-110 low smoke halogen free 110°C, colour white
- Outer sheath of special R-HF-110 thermoset compound LSHF 110°C, colour orange.

Properties

- Low Smoke Halogen Free (LSHF, LSOH, LSZH)
- UV Stabilised
- Flame Retardant
- Resistant to: oils, petrol, acids, sea water
- Submersible to 200 metres

Relevant Standards

AS/NZS1125, AS/NZS3808, IEC60332-1, AS/NZS5000.1

Application

Flexible single core double insulated for use in switchboards, busbars, transformers, welding leads, battery charges.

Part Number	Size mm²	Nominal Stranding	Cable Diameter mm	Cable Weight KG/KM	Conductor Resistance @20° Ω/KM	Voltage Drop@50Hz MV/A	Current Rating Spaced Amps*	Current Rating Touching Amps*
TA7.0060.01.OE	6	176/0.2	8.5	118	3.3	6.81	70	48
TA7.0100.01.OE	10	294/0.2	8.7	128	1.91	4.3	99	80
TA7.0160.01.OE	16	470/0.2	10.6	189	1.21	2.71	130	105
TA7.0250.01.OE	25	726/0.2	11.9	276	0.78	1.72	173	139
TA7.0350.01.OE	35	1040/0.2	13.4	375	0.554	1.25	214	172
TA7.0500.01.OE	50	1499/0.2	15.7	526	0.386	0.929	270	217
TA7.0700.01.OE	70	2100/0.2	17.7	738	0.272	0.657	340	273
TA7.0950.01.OE	95	2745/0.2	19.3	922	0.206	0.491	410	329
TA7.1200.01.OE	120	1554/0.3	21.2	1164	0.161	0.403	487	390
TA7.1500.01.OE	150	1961/0.3	25.1	1470	0.129	0.344	562	450
TA7.1850.01.OE	185	2331/0.3	27.2	1746	0.106	0.296	644	516
TA7.2400.01.OE	240	3172/0.3	30.6	2364	0.080	0.252	775	620
TA7.3000.01.OE	300	4001/0.3	33.2	2938	0.064	0.227	895	714
TA7.4000.01.OE	400	5296/0.3	37	3859	0.049	0.208	1079	855
TA7.5000.01.OE	500	6648/0.3	41	4814	0.038	0.195	1260	990
TA7.6300.01.OE	630	8376/0.3	46	6040	0.029	0.184	1493	1154

* Current ratings based on AS/NZS3008.1.1:2009 Table 9 Columns 3 and 7.

Note: Red, Black, Blue & White available on request

Motor current table, Amperes

Power kW	hp	Single Phase 240V	Three Phase 415V	Power kW	hp	Single Phase 240V	Three Phase 415V
0.37	0.5	2.2	0.7	5.5	7.5	32.4	10.8
0.55	0.75	3.2	1.1	7.5	10		14.4
0.75	1	4.3	1.4	9.3	12.5		18
1.1	1.5	6.5	2.2	11	15		21.6
1.5	2	8.6	2.9	15	20		28.8
1.8	2.5	10.8	3.6	18.5	25		36
2.2	3	13	4.3	22	30		43.2
4	5	21.6	7.2	30	40		58