

1 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 mm ²	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 ..	6	172/0.20	8.5	118	3.3	6.81	70	48
TA7.0100.01 ..	10	320/0.2	8.7	128	1.91	4.3	99	80
TA7.0160.01 ..	16	512/0.2	10.6	189	1.21	2.71	130	105
TA7.0250.01 ..	25	800/0.2	11.9	276	0.78	1.72	173	139
TA7.0350.01 ..	35	1120/0.2	13.4	375	0.554	1.25	214	172
TA7.0500.01 ..	50	705/0.3	15.7	526	0.386	0.929	270	217
TA7.0700.01 ..	70	990/0.3	17.7	738	0.272	0.657	340	273
TA7.0950.01 ..	95	1340/0.3	19.3	922	0.206	0.491	410	329
TA7.1200.01 ..	120	1690/0.3	21.2	1164	0.161	0.403	487	390
TA7.1500.01 ..	150	2123/0.3	25.1	1470	0.129	0.344	562	450
TA7.1850.01 ..	185	1470/0.4	27.2	1746	0.106	0.296	644	516
TA7.2400.01 ..	240	1905/0.4	30.6	2364	0.080	0.252	775	620
TA7.3000.01 ..	300	2385/0.4	33.2	2938	0.064	0.227	895	714
TA7.4000.01 ..	400	3184/0.4	37	3859	0.049	0.208	1079	855
TA7.5000.01 ..	500	3980/0.4	41	4814	0.038	0.195	1260	990
TA7.6300.01 ..	630	5015/0.4	46	6040	0.029	0.184	1493	1154

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

Note: Please complete the part number for these cables by adding the below suffix for the colour required as per the list:

OE = Orange, following colours are available on request; **RD** = Red, **BE** = Blue, **BK** = Black, **WE** = White.

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