

1 Treoflex Welding Flex 90°C 0.6/1kV



Technical Data

Extra fine wire to ensure maximum flexibility

- **Temperature range**
-30°C to 90°C static
-20°C to 90°C flexing
- **Nominal voltage**
0.6/1kV
- **Bending radius**
5 x cable diameter

Cable Structure

- Annealed bare copper conductors
- Class 6 fine stranding
- Insulation of very flexible NBR 90°C, colour white
- Outer sheath of special NBR

Available colours:

- Orange, Red, Blue, Black, White

Properties

- UV Stabilised
- Flame Retardant
- Resistant to: oils, acids, sea water

Relevant Standards

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

Application

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

Part Number	Size mm ²	Nominal Stranding	Cable Diameter mm	Cable Weight KG/KM	Conductor Resistance @20° Ω/KM	Three-Phase Voltage Drop @50Hz MV/A	Current Rating Spaced Amps*	Current Rating Touching Amps*
TA2.0100.01 ..	10	320/0.2	9.4	170	1.98	4.05	80	64
TA2.0160.01 ..	16	512/0.2	10.9	229	1.21	2.55	106	85
TA2.0250.01 ..	25	800/0.2	12.6	348	0.731	1.62	142	114
TA2.0350.01 ..	35	1120/0.2	13.5	450	536	1.17	177	141
TA2.0500.01 ..	50	705/0.3	15.6	600	0.402	0.872	223	178
TA2.0700.01 ..	70	990/0.3	17.7	805	0.266	0.615	283	225
TA2.0950.01 ..	95	1340/0.3	20	1070	0.208	0.457	341	271
TA2.1200.01 ..	120	1961/0.3	22	1330	0.161	0.373	406	322
TA2.1500.01 ..	150	1187/0.3	25	1650	0.126	0.316	570	373
TA2.1850.01 ..	185	2331/0.3	27	2055	0.104	0.269	540	428
TA2.2400.01 ..	240	3172/0.3	30	2570	0.080	0.227	651	515
TA2.3000.01 ..	300	3965/0.3	34	3210	0.632	0.203	752	594
TA2.4000.01 ..	400	5246/0.3	39	4190	0.465	0.183	909	715

* Current ratings based on AS/NZS3008.1.1:2009 Table 8 Columns 3 and 9.

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

OE = Orange, **RD** = Red, **BE** = Blue

following colours are available on request; **BK** = Black, **WE** = White.

Nominal Area mm ²	Welding Current Rating (Amps) Maximum Duty Cycle percent to AS/NZS 1995			
	100	60	30	25
16	125	160	225	245
25	165	210	300	330
35	205	265	375	410
50	260	335	475	520
70	325	415	590	645
95	390	505	715	780
120	455	585	830	910

* Current ratings based on a conductor temperature of 90°C and in ambient air temperature of 40°C