

## Radaflex A Cable



### Application

This cable offers excellent flexibility and current carrying capacity. Radaflex is fast becoming the standard cable for many in the Power Generation industry. Its outer sheath is oil and flame retardant and surprisingly durable. Its flexibility makes it a joy to handle compared to rubber and its current carrying capacity is impressive.

### Standards

**BS5467, BS6500, BS6007**  
**IEC 60502, UL 1581, IEC 332-1 Flame Test**  
**VDE 0472 / 0283 / 0250 (ASTM N2)**  
**Class 6 stranding based on VDE 0295 72/33/EEC, 92/59/EEC, 93/68/EEC**

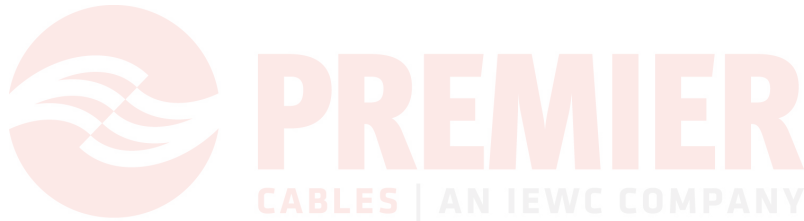
### Characteristics

**Voltage**  
1000V (0.6/1kV)

**Test Voltage**  
3500V

**Temperature Rating**  
-30°C to +90°C

**Minimum Bending Radius**  
6 x overall diameter



### Construction

**Conductor**  
Finely Stranded Plain Annealed Copper

**Insulation 6mm - 70mm**  
90°C TPE compound

**Insulation 95mm and above**  
90°C EPR compound

**Sheath**  
Oil & Abrasion Resistant TPE 90°C

**Sheath Colour**  
Orange and black. Other colours available on request.  
Sheath printing available.



## Dimensions

CONDUCTOR SIZE (mm <sup>2</sup> )	NOMINAL STRANDING (mm <sup>2</sup> )	NOMINAL OVERALL DIAMETER (mm)	MAX CONDUCTOR RESISTANCE AT 20°C (Ohm/km)	NOMINAL WEIGHT kg/km	CURRENT CAPACITY amps
6	178/0.2	8.5	3.30	120	56
10	296/0.2	10.0	1.91	175	84
16	462/0.2	11.0	1.21	235	113
25	722/0.2	13.0	0.780	345	154
35	1026/0.2	14.0	0.554	455	188
50	1482/0.2	15.5	0.386	615	222
70	2090/0.2	17.0	0.272	815	285
95	2812/0.2	19.6	0.206	1000	350
120	1480/0.3	21.5	0.161	1300	410
150	1887/0.3	24.0	0.129	1590	470
185	2294/0.3	26.0	0.106	1830	550
240	3034/0.3	29.0	0.0801	2400	660
300	3811/0.3	33.0	0.0641	3250	770
400	5246/0.3	40.0	0.0486	4550	900

Current carrying capacity based upon installation in air, spaced if in parallel.

IEE Regs 16th, Table 4E3A ref 11 or Table 4F1A may be useful

Current ratings are recommended, based upon actual testing & experience. These cables will produce 10-15% higher figures but may run hot over a sustained period of continuous full load.

Radaflex when used as a welding cable produces substantially higher figures.

## Temperature Variation Rating Factors

AMBIENT TEMPERATURE	20°C	25°C	30°C	35°C	40°C	45°C
DE-RATING FACTOR	1.04	1.00	0.96	0.91	0.86	0.81

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.