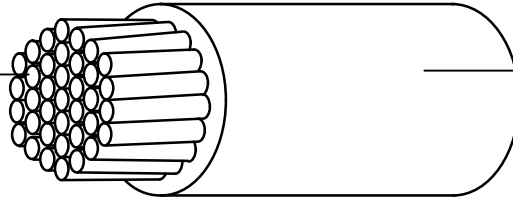


1900/3300 VOLT POWER CABLE

The complete requirements for procuring the wire described herein shall consist of this document.

**Conductor -**

Flexible Tin Plated Copper  
to IEC 60228 Class 5



**Insulation -**

Flexible Crosslinked  
Polyolefin - Abrasion,  
Flame and Fuel Resistant

Part Description	CONDUCTOR			FINISHED WIRE					
	Nominal Cross Sectional Area (mm <sup>2</sup> )	Max Strand OD (mm)	Nom OD (mm)	Maximum Resistance @ 20°C (ohms/ km)	Nom Insulation Thickness (mm)	Diameter (mm)			Maximum Weight (kg/ km)
						Lower Spec Limit	Target	Upper Spec Limit	
AFR35-1.5-*	1.5	0.26	1.49	13.2	0.6	2.56	2.69	2.82	21.63
AFR35-2.5-*	2.5	0.26	1.89	7.89	0.9	3.51	3.69	3.87	38.59
AFR35-4.0-*	4.0	0.31	2.49	4.89	1.1	4.47	4.69	4.92	61.14
AFR35-6.0-*	6.0	0.31	2.96	3.23	1.3	5.30	5.56	5.84	90.05
AFR35-10.0-*	10.0	0.41	3.90	1.95	1.2	6.67	7.00	7.35	153.47
AFR35-16.0-*	16.0	0.41	5.70	1.18	1.2	7.71	8.10	8.51	211.24
AFR35-25.0-*	25.0	0.41	6.40	0.795	1.6	9.90	10.40	10.92	336.09
AFR35-35.0-*	35.0	0.41	8.40	0.538	1.6	11.05	11.60	12.18	455.41
AFR35-50.0-*	50.0	0.41	9.10	0.393	1.7	13.05	13.70	14.39	638.27
AFR35-70.0-*	70.0	0.51	12.40	0.277	1.8	15.24	16.00	16.80	834.93
AFR35-95.0-*	95.0	0.51	14.30	0.200	2.0	17.43	18.30	19.22	1148.16
AFR35-120.0-*	120.0	0.51	16.00	0.156	2.2	19.43	20.40	21.42	1501.92
AFR35-150.0-*	150.0	0.51	16.40	0.132	2.3	21.52	22.60	23.73	1834.14
AFR35-185.0-*	185.0	0.51	20.00	0.103	2.4	23.62	24.80	26.04	2176.89
AFR35-240.0-*	240.0	0.51	23.00	0.0817	2.4	26.48	27.80	29.19	2816.71
AFR35-300.0-*	300.0	0.51	26.00	0.0623	3.0	30.48	32.00	33.60	3579.65
AFR35-400.0-*	400.0	0.51	30.00	0.0472	3.0	34.29	36.00	37.80	4636.47

**COLOUR CODE:**

The '\*' in the part number represents the standard colour code designator in accordance with Mil Std 681, e.g. AFR35-10.0-0 is 10 mm<sup>2</sup> conductor size, black insulation.

**PERFORMANCE REQUIREMENTS:**

To be tested to and meet the requirements of the issue in effect of WCD 51/1619.

**ADDITIONAL REQUIREMENTS:**

Temperature Rating - 120°C - 4000 hours

100% Spark Test to BS 6231

- 1.5 - 16 mm<sup>2</sup> - 10 kV
- 25 - 95 mm<sup>2</sup> - 15 kV
- 120 - 240 mm<sup>2</sup> - 20 kV
- 300 - 400 mm<sup>2</sup> - 25 kV

**APPROVAL:**

Electronic sign off - no signatures will appear.