TECHNICAL DATA SHEET

AEI FIRETEC FRF2

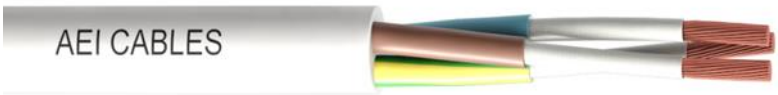
A Firetec Innovation, FRF2 provides a multipurpose cable which is flexible and is designed for emergency and normal lighting circuits. Firetec FRF2 also meets the exacting requirements of London Underground for Fire Performance.

Fire Performance

BS5266-1	Standard 60 Emergency Lighting
BS5266-1	Enhanced 120 when tested in conduit
IEC60331-3	
BS5839-1	Clause 26.2d - Standard 60 grade Fire Alarm Cable
BS8519	Category 2 & 3 when tested to BS EN50200 PH120 & BS8434-2 & BS8519 Annex B in conduit

Additional Fire Performance

BS EN50267 – IEC60754	Acid Gas Emission
BS EN50268 – IEC61034	Smoke Emission
BS EN50265, BS EN50266	Flame Propagation
LUL 1-085	



Construction

- Class 5 Plain Annealed Copper Conductor to BS EN60228
- Mica Glass Taping
- XLPE Insulated
- Low Smoke Zero Halogen (LSZH) Sheathed

Voltage Rating 450/750 Volt

Bend Radius 3 x O/D Fixed. 6 x O/D for Flexing (32000 Flex Cycles to BS6500)

Operating Temp -25°C to +90°C

Core Colours	**Sheath Colour**
3 Core – Brown, Blue, Green/Yellow	White as Standard
4 Core – Brown, Black, Grey, Green/Yellow	
5 Core – Brown, Blue, Black, White, Green/Yellow	

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Number of Cores & CSA	Current Rating		Voltage Drop			Max Conductor Resistance at 20°C	Approximate Overall Diameter	Approximate cable Weight
	Single Phase (ac or dc)	Three Phase (ac)	dc	Single Phase (ac)	Three Phase (ac)			
mm²	mm	mm	mV/A/m	mV/A/m	mV/A/m	Ohm/Km	mm	Kg/Km
3 x 1.50mm²	23.00	-	34.10	34.00	-	13.30	10.00	148
3 x 2.50mm²	31.00	-	20.90	21.00	-	7.98	11.80	223
4 x 1.50mm²	-	21.00	-	-	29.70	13.30	11.30	196
5 x 2.50mm²	-	28.50	-	-	17.60	7.98	12.90	273
5 x 1.50mm²	23.00	21.00	34.10	34.00	29.70	13.30	12.40	240
5 x 2.50mm²	31.00	28.50	20.90	21.00	17.60	7.98	14.70	322

Notes

1. Current ratings from Table 4E2A of BS7671:2008 (adjusted in accordance with note 3)
2. For cable installed in conduit a de-rating factor of 0.90 applies to above current ratings
3. Recommended fixing distances are 300mm horizontal or 400mm vertical as table 4A of Appendix 4 IEE On-Site Guide to BS7671:2008