

TECHNICAL DATASHEET



FIRETEC FRF2

Specification: Fire Resistant Flex, 90 degree rated, meeting LUL S1085

Voltage Rating 0.45/0.75 kV
Description Bunched plain copper conductors, fire barrier tapes, LSZH insulation, cores laid up, LSZH sheath

| No. of cores & Nominal Cross Sectional Area of Conductor | Current Rating (Clipped Direct) | | Voltage Drop (Clipped Direct) | | | Maximum DC Conductor Resistance@ 20°C | Approximate Overall Diameter | Nominal Weight |
|--|---------------------------------|----------------|-------------------------------|-----------------|----------------|---------------------------------------|------------------------------|----------------|
| | Single Phase ac or dc | Three Phase ac | dc | Single Phase ac | Three Phase ac | | | |
| no x mm ² | Amps | Amps | mV/A/M | mV/A/M | mV/A/M | Ω/Km | mm | Kg/Km |
| 3 x 1.50 | 23.00 | - | 34.10 | 34.00 | - | 13.30 | 10.00 | 148.00 |
| 3 x 2.50 | 31.00 | - | 20.90 | 21.00 | - | 7.98 | 11.80 | 223.00 |
| 4 x 1.50 | - | 21.00 | - | - | 29.70 | 13.30 | 11.30 | 196.00 |
| 4 x 2.50 | - | 28.50 | - | - | 17.60 | 7.98 | 12.90 | 273.00 |
| 5 x 1.50 | 23.00 | 21.00 | 34.10 | 34.00 | 29.70 | 13.30 | 12.40 | 240.00 |
| 5 x 2.50 | 31.00 | 28.50 | 20.90 | 21.00 | 17.60 | 7.98 | 14.70 | 322.00 |

Core colour

- 3 core – Blue, Brown, Green/Yellow
- 4 core – Brown, Black, Grey, Green/Yellow
- 5 core – Brown, Blue, Green/Yellow, Black, White

Sheath colour: White

AEI FRF2 cables meets the BS codes of practice BS 5266-1 8.2.2 (a), (c), & (d) for Emergency lighting cable & cable systems. BS 5839-1 clause 26.2d for standard grade cable fire tests BS EN 50200 PH30 & Annex E incorporating fire, impact and water testing. BS 5839-8 Voice Alarms system.

The cable results are also successful in demonstrating BSEN 50200 PH120 & BS 8519 Cat 1, BSEN 50200 PH30, 60 & 120 performances.

Circuit integrity test - Fire with impact test as per test Method: IEC 60331-3, 120 minutes (830 + 40°C).

AEI FRF2 cable is also compliant with the BS 6500 Flex Test, BS 6500 – 32,000 cycles-No breakdowns.

BS 8434-2 @ 930+40°C for 120min and BS 8519 Annex B @ 930+40°C for 120min when the cables are tested within standard steel conduit.

Notes:

- 1 Current ratings from Table 4E2A of BS7671:2008 (adjusted in accordance with note 3)
- 2 For cable installed in conduit a derating factor of 0.9 applies to 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

General Note

AEI Cables reserves the right to amend the product information without notice or liability. The information is considered accurate at the time of going to print.

AEI Cables Limited,
 Unit 32, Crowther Road
 Crowther Industrial Estate
 Washington, Tyne & Wear
 England NE38 0AQ

Telephone: +44 (0) 191 410 3111
 Email: sales@aicables.co.uk or technical@aicables.co.uk
 Website: www.aicables.co.uk