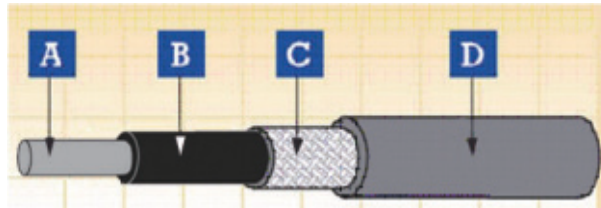


## FIREROL Thin Wall Screened Single Core Cables With Standard Wall Sheath 250 V NF F 63-808 (FRF-TW-025S-OS)



A. Conductor B. Insulation C. Screen D. Sheath

### Application

These cables are used as signal and control cable for protected installations inside and outside of rail and transport vehicles, where space and weight are an important factor, suitable for use in cable harnesses, switchboards and control panels, driver desks etc.

### Construction

#### Conductor

Stranded tinned copper wires

#### Insulation

Radiation crosslinkable LSZH compound

#### Screen

Tinned copper braid

#### Sheath

Radiation crosslinkable LSZH compound

### Electrical & Mechanical Properties

|                            |                      |
|----------------------------|----------------------|
| Nominal Voltage            | 250 V                |
| Max. Conductor Temperature | 105 °C/125 °C        |
| Temperature Range          | -40 °C~+105 °C       |
| Bending Radius             | 5 × Overall Diameter |

### Standards

NF F 63-808  
NF F 16-101  
BS 6853  
DIN 5510

### Fire Performance in General

|  |   |
|--|---|
| EN 50265-2-1; IEC 60332-1-2; NF C 32-070 2.1 (C2)                                      | Vertical flame propagation for a single insulated wire or cable     |
| EN 50266-2-4 + EN 50305; IEC 60332-3-24;<br>NF C 32-070 2.2 (C1); VDE 0472 Teil 804    | Vertical flame spread of vertically mounted bunched wires or cables |
| EN 50268-2; IEC 61034-2; NF C 32-073 ;<br>NF C 20-902; NF F 16 101; VDE 0472 Teil 816  | Low Smoke Emission  |
| EN 50267-2-1; IEC 60754-1; NF C 32-074;<br>NF C 20-454; VDE 0472 Teil 815              | Halogen Free  |
| EN 50267-2-2/3; IEC 60754-2; NF C 32-074;<br>NF C 20-453; VDE 0472 Teil 813            | Low Corrosivity (Acidity & Conductivity)                            |
| EN 50305; NF X 70-100; NF F 63 808; TM1-04; BS6853<br>NF F 63 808; BS6853; NF F 16 101 | Low Toxicity<br>Smoke Index   |



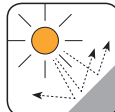
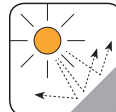
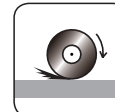
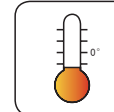
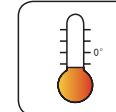








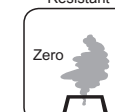
# NF F 63-808 Rolling Stock Cables

FRF-TW-025S-OS 250 V

| Nominal Cross-Sectional Area | Number & Nominal Diameter of Strands | Overall Diameter |      | Weight |
|------------------------------|--------------------------------------|------------------|------|--------|
|                              |                                      | Min.             | Max. |        |
| mm <sup>2</sup>              | No/mm                                | mm               | mm   | kg/km  |
| 0.38                         | 19/0.16                              | 2.05             | 2.55 | 11.5   |
| 0.60                         | 19/0.20                              | 2.30             | 2.80 | 15.0   |
| 0.93                         | 19/0.25                              | 2.50             | 3.00 | 18.8   |
| 1.34                         | 19/0.30                              | 2.70             | 3.20 | 24.2   |
| 1.82                         | 37/0.25                              | 3.30             | 3.75 | 32.0   |
| 2.61                         | 37/0.30                              | 3.60             | 4.20 | 43.0   |
| 4.32                         | 61/0.30                              | 4.15             | 4.75 | 63.0   |



NF F 63-808 Rolling Stock Cables

|  |   |  |  |  |  |   |   |
|--|---|--|--|--|--|---|---|
| <br>Impact Resistant              | <br>Highly Flexible                  | <br>UV Resistant  | <br>Ozone Resistant   | <br>Abrasion Retardant  | <br>Cold Resistant   | <br>Resistance To Soldering Heat   | <br>Acid & Alkaline Resistant                      |
| <br>IRM 903<br>Fuel Oil Resistant | <br>IRM 902<br>Mineral Oil Resistant | <br>Fire Retardant<br>NF C32-070-2.2(C1)<br>IEC60332-3-24/EN50266-2-4 | <br>Flame Retardant<br>NF C32-070-2.1(C2)<br>IEC60332-1-2/EN50265-2-1 | <br>Low Toxicity<br>EN 50305: NF X70-100/NF<br>F63 808/TM1-04/BS 6853 | <br>Low Corrosivity<br>IEC60754-2/EN50267-2-2/3<br>NF C32-074/NF C20-453 | <br>Low Smoke Emission<br>IEC 61034-2 / EN 50268-2<br>NF C32-073/NF C 20-902 | <br>Zero<br>IEC 60754-1/EN 50267-2-1<br>NF C20-454 |