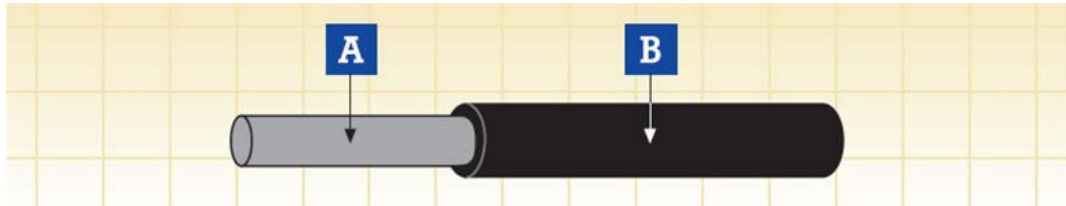




# NF F 63-827 Rolling Stock Cables

## NF F 63-827 High Temperature Unsheathed Single Core 3000V



A. Conductor B. Insulation

### Application

These cables are used as power and control cable for protected installations inside and outside of rail and transport vehicles, where handling and installation cost are an important factor, suitable for used in control, auxiliary and main circuit wiring such as cable harnesses, switchboards and control panels, driver desks etc.

### Construction

Conductor

Stranded tinned copper wires to IEC 60228 Class 5

Separator

Polyester tape

Insulation

Silicone halogen free rubber

### Electrical & Mechanical Properties

Nominal Voltage	3000V
Maximum Conductor Temperature	+120/+140°C
Temperature Range	-40°C ~135°C
Bending Radius	4×OD

### Standards

NF F 63-827

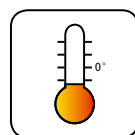
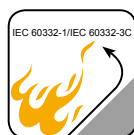
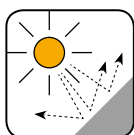
NF F 16-101

### Fire Performance in general

EN 50265-2-1; IEC 60332-1; BS 4066-1  
 EN 50266-2-4 + EN 50305; IEC 60332-3C;  
 VDE 0472 Teil 804; BS 4066-3; NFC 32070  
 EN 50268-2; IEC 61034-2; VDE 0472 Teil 816  
 EN 50267-2-1; IEC 60754-1; VDE 0472 Teil 815  
 EN 50267-2-2/3; IEC 60754-2; VDE 0472 Teil 813  
 EN 50305; NFX 70-100; NFF 63808; TM1-04; BS6853  
 NFF 16101; NFF 63808; BS6853

Vertical flame propagation for a single insulated wire or cable  
 Fire propagation of bunched wires and cables;

Smoke density  
 Halogen Free  
 Corrosivity of gases (Acidity & Conductivity)  
 Toxicity index  
 Smoke index



**NF F 63-827 Rolling Stock Cables**

Nominal Cross Sectional Area	Number & Nominal Diameter of Strands	Nominal Insulation Thickness	Overall Diameter		Weight
			Min.	Max.	
mm <sup>2</sup>	No/mm	mm	mm	mm	kg/km
2.5	50/0.25	2.3	6.4	7.2	65
4.0	56/0.30	2.3	7.0	7.8	85
6.0	84/0.30	2.3	7.5	8.3	108
10.0	80/0.40	2.3	8.4	9.5	160
16.0	126/0.40	2.3	9.7	10.8	230
25.0	196/0.40	2.3	11.0	12.2	310
35.0	276/0.40	2.4	12.2	13.5	420
50.0	396/0.40	2.5	14.2	15.5	580
70.0	360/0.50	2.7	16.1	17.7	790
95.0	475/0.50	2.7	18.0	19.8	1030
120.0	608/0.50	2.8	20.0	21.9	1250
150.0	756/0.50	2.8	21.8	23.8	1560
185.0	925/0.50	2.9	23.7	25.9	1880
240.0	1221/0.50	3.1	26.6	29.1	2420