

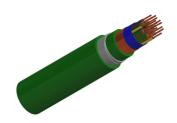
## Caledonian

# Railway Cables www.caledonian-cables.com

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#### CCTSST-FR0.3 nx4x1.4

RS/CCTSST-FR0.3-2Y(K)HBH-10Q1.4





#### **APPLICATIONS**

The cables are used as railway cables and can be installed directly into the ground or in ducts.

#### **STANDARDS**

RENFE E.T. 03.365.051.6

#### **VOLTAGE RATING**

300/500V

#### **CABLE CONSTRUCTION**

Conductors: Soft annealed solid copper

Insulation: PE Insulation.

Cabling Element: Four insulated conductors are twisted together to form a quad.

Stranding: Quads are helically stranded in concentric layers.

Core Wrapping: Two or more layers of plastic tape(s) with overlapping. Screen: Copper tapes with overlap (protection against interference).

Inner Sheath: LSZH-FR-PE sheath, coloured green.

Armour: Two layers steel tape (0.8mm thick).

Outer Sheath: LSZH-FR-PE sheath, coloured green. (LSZH-FR= Low smoke, zero halogen, fire retardant).

#### PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 10xOD

Temperature Range: -40°C to +60°C (during operation); -10°C to +60°C (during installation)

#### **Electrical Properties**

Electrical Characteristics at 20°C: Nominal Conductor Diameter:1.4 mm Maximum Conductor Resistance:11.7Ω/km

Minimum Insulation Resistance @500 V DC:35000 MΩ.km

Mutual Capacitance @800Hz:45 nF/km

Capacitance Unbalance@800Hz:

K1 maximum individual value:250 pF/460m



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K9-12 maximum individual value:250 pF/460m ea1/2 maximum individual value:1200 pF/460m

Test Voltage @50Hz 1min: Core to core:2100 Veff Core to screen:2500 Veff Reduction Factor @50Hz:0.3

### **DIMENSION AND PARAMETERS**

| No. of Quad | Conductor<br>Diameter | Nominal<br>Diameter over<br>Insulation | Nominal<br>Inner Sheath<br>Thickness | Nominal<br>Outer Sheath<br>Thickness | Nom. Overall<br>Diameter | Approx.<br>Weight |
|-------------|-----------------------|--|--------------------------------------|--------------------------------------|--------------------------|-------------------|
|             | mm                    | mm                                     | mm                                   | mm                                   | mm                       | kg/km             |
| 10          | 1.4                   | 2.6                                    | 1.7                                  | 1.8                                  | 38.4                     | 2640              |







Buried in Ground







Laid In Ducts







Low Toxcity



Rated voltage



UV Resistant



Water Resistant

