

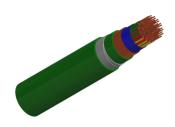
# Caledonian

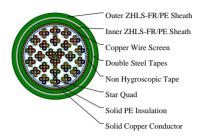
## Railway Cables www.caledonian-cables.com

marketing@caledonian-cables.com

#### CCTSST-FR0.1 nx4x0.9

RS/CCTSST-FR0.1-2YDHBH-25Q0.9





#### **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:0.9mm copper wires wrapping with one plastic tape (protection against interference). Inner Sheath: LSZH-FR-PE sheath, coloured green. PE sheath can be offered as an option.

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

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

sheath can be offered as an option.

#### 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: 0.9 mm

Maximum Conductor Resistance:28.5 Ω/km

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

Mutual Capacitance @800Hz:41 nF/km

Capacitance Unbalance@800Hz:



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K1 maximum individual value:250 pF/460m K9-12 maximum individual value:250 pF/460m ea1/2 maximum individual value:1200 pF/460m

#### Attenuation:

@1KHz:0.7 dB/km

@10KHz:1.6 dB/km

@30KHz:2.1 dB/km

Test Voltage @50Hz 1min:

Core to core:2100 Veff

Core to screen:2500 Veff

Core to armouring:2000 Veff

### **DIMENSION AND PARAMETERS**

No. of Quad	Conductor Diameter	Nominal Diameter over Insulation	Nominal Inner Sheath Thickness	Nominal Outer Sheath Thickness	Nom. Overall Diameter	Approx. Weight
	mm	mm	mm	mm	mm	kg/km
25	0.9	1.8	1.7	1.8	44.2	3590





Buried in Ground







Laid In Ducts







Low Toxcity



Rated voltage



UV Resistant



Water Resistant

