

Caledonian

Railway Cables www.caledonian-cables.com

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CCTSST-FR0.1 nx4x0.9

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





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
1	0.9	1.8	1.5	1.6	20.6	1170





Buried in Ground







Laid In Ducts





Low Toxcity



Rated voltage



UV Resistant



Water Resistant

