

Caledonian

Railway Cables www.caledonian-cables.com

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CCTSST-FR0.3 nx4x1.4

RS/CCTSST-FR0.3-2Y(K)HBH-1Q1.4





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 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	1.4	2.6	1.5	1.6	19	880





















Rated voltage



UV Resistant



Water Resistant

