

## CCTSST-FR0.1 n×4×0.9/1.4

### Applications

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



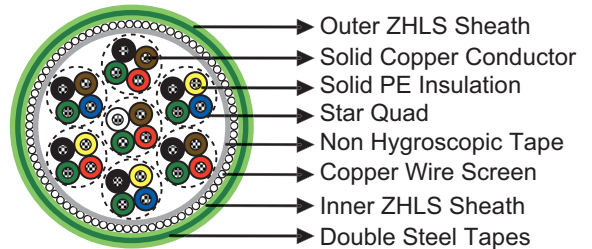
### Standards

- RENFE E.T. 03.365.051.6

### Construction

- Conductors: Soft annealed solid copper, 0.9/1.4 mm nominal diameter.

- 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: 0.9/1.2/1.4/1.8mm copper wires wrapping with one plastic tape (protection against interference).
- Inner Sheath: LSZH sheath, coloured green.
- Armour: Two layers of steel tape (0.8mm thick).
- Outer Sheath: LSZH sheath, coloured green.

### Electrical Characteristics at 20°C

Nominal Conductor Diameter	mm	0.9	1.4
Maximum Conductor Resistance	Ω/km	28.5	11.7
Minimum Insulation Resistance @500 V DC	MΩ.km	35000	35000
Mutual Capacitance @800Hz	nF/km	41	45
Capacitance Unbalance @800Hz			
K <sub>1</sub> maximum individual value	pF/460m	250	250
K <sub>9-12</sub> maximum individual value	pF/460m	250	250
ea <sub>1/2</sub> maximum individual value	pF/460m	1200	1200
Attenuation			
@1KHz	dB/km	0.7	0.46
@10KHz	dB/km	1.6	0.85
@30KHz	dB/km	2.1	1.3
Test Voltage @50Hz 1min			
Core to Core	V <sub>eff</sub>	2100	2100
Core to Screen	V <sub>eff</sub>	2500	2500
Core to Armouring	V <sub>eff</sub>	2000	2000
Reduction Factor @100V/km 50Hz		0.1	0.1



## ➤ Mechanical and Thermal Properties

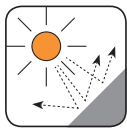
- Minimum Bending Radius: 10×OD
- Temperature Range: -40°C to +60°C (during operation); -10°C to +60°C (during installation)

## ➤ Dimensions and Weight

Cable Code	Number of Quads	Nominal Sheath Thickness mm		Maximum Overall Diameter mm	Nominal Weight kg/km
		Inner	Outer		
0.9mm Conductor, 1.8mm Insulated Wire					
RS/CCTSST-FR0.1-2YDHBH-1Q0.9	1	1.5	1.6	20.6	1170
RS/CCTSST-FR0.1-2YDHBH-3Q0.9	3	1.5	1.6	24.7	1480
RS/CCTSST-FR0.1-2YDHBH-5Q0.9	5	1.5	1.6	27.3	1740
RS/CCTSST-FR0.1-2YDHBH-7Q0.9	7	1.5	1.6	29.6	1950
RS/CCTSST-FR0.1-2YDHBH-10Q0.9	10	1.5	1.6	33.5	2320
RS/CCTSST-FR0.1-2YDHBH-25Q0.9	25	1.7	1.8	44.2	3590
1.4mm Conductor, 2.7mm Insulated Wire					
RS/CCTSST-FR0.1-2YDHBH-10Q1.4	10	1.6	1.8	39.2	3140



Anti Induction



UV Resistant



Water Resistant



Rated Voltage



Buried in Ground



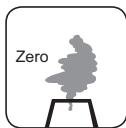
Laid In Ducts



Flame Retardant  
NF C32-070-2.1(C2)  
IEC 60332-1/EN 50265-2-1



Fire Retardant  
NF C32-070-2.2(C1)  
IEC 60332-3/EN50266



Zero Halogen  
IEC 60754-1/NF C20-454  
EN 50267-2-1



Low Smoke Emission  
IEC 61034/NFC20-902  
EN 50268/NF C32-073



Low Corrosivity  
EN 50267-2-2/NF C32-074  
IEC 60754-2/NF C20-453



Low Toxicity

