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## RAILSIG RAILWAY SIGNALLING & CONTROL CABLES

# CCPSSP-FR0.3 n×2×0.9/1.4

#### **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

#### **Solution**

- Conductors: Soft annealed solid copper, 1.4 mm nominal diameter.
  - Insulation: PE insulation.
  - Cabling Element: Two insulated conductors are twisted
    ther to form a pair
- together to form a pair.
  - Stranding: Pairs 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: PE sheath.
  - Armour: Two layers steel tape (0.8mm thick).
  - Outer Sheath: PE sheath.

### Selectrical Characteristics at 20°C

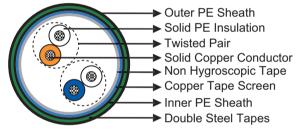
Nominal Conductor Diameter	mm	0.9	1.4
Maximum Conductor Resistance	Ω/km	28.5	11.7
Minimum Insulation Resistance @500 V DC	MΩ.km	15000	15000
Mutual Capacitance @1KHz	nF/km	58	58
Capacitance Unbalance @1KHz			
Pair to Pair	pF/km	260	260
Pair to Earth	pF/km	2625	2625
Test Voltage @50Hz 1min			
Core to Core	V <sub>eff</sub>	2100	2100
Core to Screen	V <sub>eff</sub>	2500	2500
Reduction Factor @100V/km 50Hz		0.3	0.3

#### 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)



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# **Dimensions and Weight**

Cable Code	Number of Pairs	Nominal Sheath Thickness mm		Maximum Overall Diameter	Nominal Weight			
		Inner	Outer	mm	kg/km			
0.9mm Conductor, 1.8mm Insulated Wire								
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-6P0.9	6	1.5	1.6	19.2	720			
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-10P0.9	10	1.5	1.6	24.0	1011			
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-12P0.9	12	1.5	1.6	24.5	1067			
1.4mm Conductor,2.7mm Insulated Wire								
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-2P1.4	2	1.5	1.6	22.5	904			
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-6P1.4	6	1.6	1.8	25.5	1155			
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-7P1.4	7	1.6	1.8	26.9	1258			
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-10P1.4	10	1.7	1.8	30.9	1542			
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-11P1.4	11	1.7	1.8	30.9	1576			
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-14P1.4	14	1.7	1.8	37.1	1827			
RS/CCPSSP-FR0.3-2Y(K)2YB2Y-20P1.4	20	1.8	2.0	37.9	2214			





Water Resistant







Laid In Ducts





UV Resistant

Rated Voltage Buried in Ciround

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

