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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

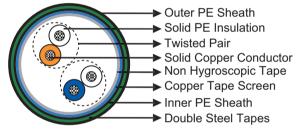
| Nominal Conductor Diameter              | mm               | 0.9   | 1.4   |
|---|------------------|-------|-------|
| Maximum Conductor Resistance            | Ω/km             | 28.5  | 11.7  |
| Minimum Insulation Resistance @500 V DC | MΩ.km            | 15000 | 15000 |
| Mutual Capacitance @1KHz                | 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)



**U81 |**///////







# **Dimensions and Weight**

| Cable Code                            | Number of<br>Pairs | Nominal Sheath Thickness<br>mm |       | Maximum Overall<br>Diameter | Nominal<br>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

