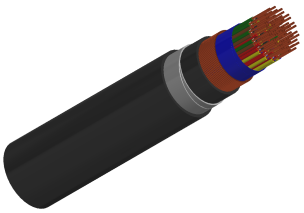
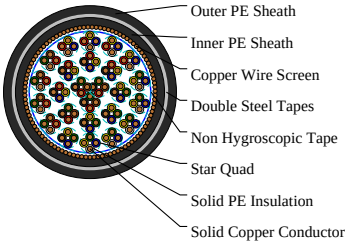
Caledonian
Railway Cables
www.caledonian-cables.com marketing@caledonian-cables.com

## CCPSSP-FR0.1 nx4x0.9

RS/CCPSSP-FR0.1-2YD2YB2Y-25Q0.9






## 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: PE sheath.
Armour: Two layers steel tape (0.8mm thick).
Outer Sheath: PE sheath.

## PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 10xOD
Temperature Range: -40℃ to +60℃ (during operation); -10℃ to +60℃ (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:
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 |
| 25 | 0.9 | 1.8 | 1.7 | 1.8 | 42 | 3150 |

Anti Induction


Buried in Ground


Laid In Ducts


Rated voltage


UV Resistant


Water Resistant

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