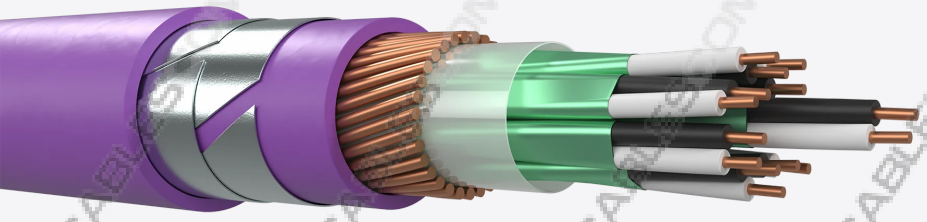
Cable Pair CCPSSP Rk0,1

RAILWAY SIGNALLING CABLES, MULTICORE, PE SHEATH FOR EXTERNAL INSTALLATIONS WATERBLOCKING AND RODENT RESISTANT



Description and application

Cables of 1 to 20 pairs individually shielded with an aluminium/polyester laminate. Conductors of 0.9 and 1.4 mm nominal diameter, PE insulation. Pairs are stranded in layers to form the core that is protected with an anti-inductive polyethylene sheath with a reduction factor of 0.1. Cable protected against rodents.

They are used as signalling cables in railways infrastructures where protection against power lines induction is required. For installation in ducts or directly buried.

Construction

- Conductors: Annealed copper, 0.9 and 1.4 mm of nominal diameter.
- Insulation: Solid polyethylene.
- Cabling elements: Shielded pairs with an aluminium/polyester tape. Continuity tinned wire under the tape.
- Core formation: Stranded in layers.
- Core wrapping: Dielectric tape longitudinally applied with overlap.
- Cable screen: Copper wires helicoidally applied.
- Inner sheath: Polyethylene.
- Armour: Two steel tapes helically applied.
- Outer sheath: UV resistant black polyethylene.
- Sheath marking: The outer sheath shall be marked in white ink, at regular intervals, with the following information:
    - Name of manufacturer/ Year/ Length marks

- Other type of marks according to the costumer

All drawings, weights and dimensions details, as well as tube and fibre colours in this document are only indicative and must not be considered contractual.

ELECTRICAL CHARACTERISTICS (20°C)

	0.9	1.4
Maximum resistance (Ω/km)	2.0	2.0
Minimum insulation resistance (MΩxkm, 20°C, 500V)	> 35000	> 35000
Mutual capacity (nF/km, 800 Hz)	Medio: 59 ± 3* Maximo: 65	Medio: 59 ± 3* Maximo: 65
Dielectric strength (Vdc, 2min) Conductor - Conductor	> 4500	> 4500
Dielectric strength (Vdc, 2min) Conductor - Screen	> 1500	> 1500
AS/DC operating voltage (V)		

MECHANICAL AND THERMAL PROPERTIES

Maximum allowable radius	15 x Ø cable
Operating temperature range	-25°C a 75°C
Installation temperature range	

DIMENSIONS AND WEIGHTS

Cable Pair CCPSSP Rk0,1 x 0.9

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x2	1000	23.5
3x2	1120	25.3
5x2	1250	26.0
6x2	1350	27.3
8x2	1500	29.8
10x2	1625	32.0

Cable Pair CCPSSP Rk0,1 x 4x4

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
14x2	1750	35.7

Cable Pair CCPSSP Rk0,1 x 1.4

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x2	1000	22.5
2x2	1400	27.9
3x2	1530	29.9
4x2	1600	30.8
5x2	1700	31.0
6x2	1950	34.8
8x2	2150	37.0
10x2	2350	38.5
12x2	2500	41.0
14x2	2650	43.1
16x2	3000	45.8

18x2	3300	48.4
20x2	3500	50.4

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