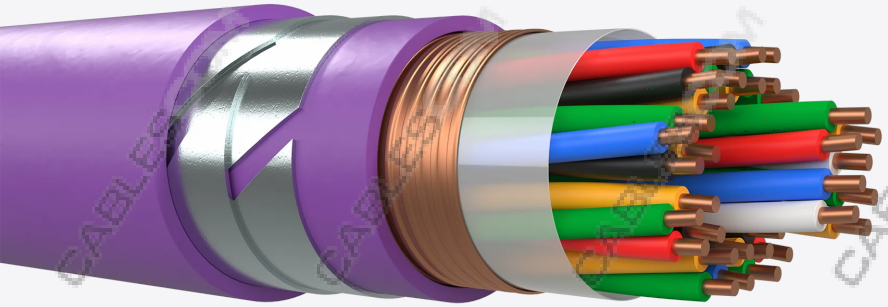
Cable Quad FC-T-2S-T Rk0,3

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



Description and application

Cables from 1 to 25 quads of 0.9 or 1.4 mm, polyethylene insulated. Quads are stranded in layers to form the core which is then protected by an anti inductive sheath with reduction factor 0,3.

They are used as control cables up to 90 kHz signals, especially in rail infrastructures, when protection is required against the induction of high voltage lines. For installation in ducts or directly buried in tunnels where protection against rodents and fire resistant characteristics are needed.
CPR Classification: B2ca, s1a, d1, a1. (Check availability)

Construction

- Conductors: Annealed copper solid wire, 0.9 or 1.4 mm. diameter.
- Insulation: Solid polyethylene.
- Cabling element: The pairs into the quads are identified by colour of the wires insulation in each layer according to the codes in the table below.
- Core formation: Stranded in Layers.
- Screening: Corrugated copper tape longitudinally applied with overlap.
- Inner sheath: LSZH violet material.
- Armouring: Two helically applied steel tapes (0,5 mm thickness).
- Outer sheath: UV resistant violet LSZH RAL 4008.
- Sheath marks: The sheath shall be marked, at a regular intervals, with the following information:
    - CABLESCOM / year / Length markings

- Other type of marking available upon request

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)	29	11.9
Minimum insulation resistance (MΩxkm, 20°C, 500V)	35000	35000
Mutual capacity (nF/km, 800 Hz)	≤45	≤48
Dielectric strength (Vdc, 2min) Conductor - Conductor	≥3000	≥3000
Dielectric strength (Vdc, 2min) Conductor - Screen	≥5000	≥5000
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 Quad FC-T-2S-T Rk0,3 x 0.9

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x2	712	19.1
3x2	819	21.1
5x2	971	23.6
7x2	1050	24.0
10x2	1247	26.4
14x2	1539	29.8
19x2	1801	32.7
25x2	2124	35.8

Cable Quad FC-T-2S-T Rk0,3 x 1.4

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x2	731	19.1
3x2	1083	24.9
5x2	1400	28.7
7x2	1589	29.6
10x2	1935	33.1
14x2	2409	37.2
19x2	2967	41.5
25x2	3627	46.2