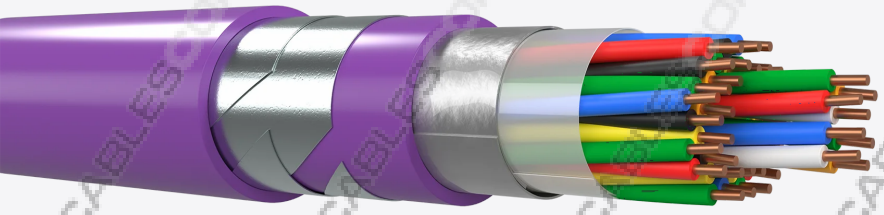
Cable Quad EATSST

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 a double LSZH material sheath, aluminium screen and double Steel tape (EATSST) armour.

Cables for railway telecomunications, to install in ducts or tunnels where behaviour against fire is needed.

Construction

- Conductors: Annealed copper solid wire, 0.9 or 1.4 mm. diameter.
- Insulating: Solid polyethylene.
- Core formation: Star Quads. See colour code table.
- Core wrapping: Dielectric tape longitudinally applied with overlap.
- Screen: Aluminium-copolymer tape longitudinally applied with overlap.
- Inner sheath: LSZH material.
- Armour: Two steel tapes helically applied.
- Outer sheath: UV resistant violet LSZH material.
- Marking: CABLESCOM / Year / Lenght (Other type of marking available under request)

ELECTRICAL CHARACTERISTICS (20°C)

	0.9	1.4
Maximum resistance (Ω/km)	29.0	11.9
Minimum insulation resistance (MΩxkm, 20°C, 500V)	15000	15000
Mutual capacity (nF/km, 800 Hz)	Medio: 38±3; Max: 45	Medio: 41±4; Max: 48
Dielectric strength (Vdc, 2min) Conductor - Conductor	3000	3000
Dielectric strength (Vdc, 2min) Conductor - Screen	3500	3500
AS/DC operating voltage (V)		

MECHANICAL AND THERMAL PROPERTIES

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

DIMENSIONS AND WEIGHTS

Cable Quad EATSST x 0.9

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x4	263	12,7
3x4	404	16
5x4	552	18,8
7x4	646	20,6
10x4	813	23,3
14x4	1005	26
19x4	1268	29,4
25x4	1544	32,7

Cable Quad EATSST x 1.4

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x4	329	13,6
3x4	622	20,2
5x4	927	25,5
7x4	1070	26,1
10x4	1430	30,9
14x4	1853	35,1
19x4	2342	39
25x4	2909	43,5

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.