

MULTICONDUCTOR RAILWAY SIGNALING CABLES, LSZH ARMoured SHEATH WITH A Rf OF 0,1. ADIF SPECIFICATION



Signaling cable



Fire Retardant



Low smoke emission



Zero Halogen



Impact Resistant



UV Resistant



Rodent Resistant



EMI protected



ROHS Compliant

STANDARDS

Construction: ADIF ET 03.365.051.6 2nd edition

Other complementary standards: EN 50266-2-4 CAT. C, EN 50267-2-2, EN 50268-2 and NF-C 20454

DESCRIPTION AND APPLICATION

Cables from 1 to 61 insulated conductors of 1.4 mm, PE insulation. Conductors are stranded in layers to form the core that is protected with a LSZH anti-inductive sheath with a reduction factor of 0,1 type CC-TI-2S-TI. They are used as signalling cables in railways infrastructures where protection against power lines induction is required. For installation in ducts or directly buried in tunnels where fire resistance is needed. Protected against rodents.

CONSTRUCTION

- **Conductors:** Annealed copper, 1.4 mm of nominal diameter.
- **Insulation:** Solid polyethylene.
- **Cabling elements:** Insulated conductors.
- **Lay-up:** Stranded in layers. Colour code as per ADIF ET-03.365.051.6.
- **Core wrapping:** Dielectric tape longitudinally applied with overlap.
- **Cable screen.** Bare copper conductors helically applied.
- **Inner sheath:** LSZH material.
- **Armour:** Two 0.8 mm thick steel tapes helically applied.
- **Outer sheath:** UV resistant LSZH material coloured green RAL 6018.
- **Sheath marking:** The outer sheath shall be marked, at regular intervals, with the following information:
 - Name of manufacturer/ Year/ Length marks
 - Other type of marks according to the customer



ELECTRICAL CHARACTERISTICS (20°C)

	1,4 mm
Conductor resistance (Ω/km)	Average: 11,2±0,5 / Maximum: 11,9
Minimum insulation resistance ($M\Omega \times \text{km}$, 20°C, 500 V)	35000
Dielectric strength (Vdc, 3 s)	
conductor – conductor	3000
conductor - shield	5000

All drawings, designs, specifications and particulars of weights, dimensions, etc. in this documentation are only indicative and must not be considered contractual.

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REDUCTION FACTOR, R_k (50 Hz)

1,4

Induced Voltage (V/km)

200

0.1

500

0.1

MECHANICAL CHARACTERISTICS

Temperature range: from -25° C to +75° C

Bending radius: 15 x R_{cable}

DIMENSIONS AND WEIGHTS

Diameter : 1.40 mm					
Code	No. conductors	Cable Diam. (mm)	Aprox weight. (kg/km)	Length (m)	Drum type
EA470L0A4000402N	4	21	1098	1000	A4
EA470L0A4000702N	7	20.1	1086	1000	A4
EA470L0A4000902N	9	21.1	1171	1000	A4
EA470L0A4001202N	12	22.4	1307	1000	A4
EA470L0A4001902N	19	24.9	1572	1000	A4
EA470L0A4002702N	27	27.2	1844	1000	A6
EA470L0A4003702N	37	30	2182	1000	A6
EA470L0A4004802N	48	32.5	2526	1000	A6
EA470L0A4006102N	61	35	2895	1000	A8

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Page. 2/2