

MULTICONDUCTOR RAILWAY SIGNALING CABLES, ARMoured LSZH SHEATH, ADIF SPECIFICATION



Signaling cable



Fire Retardant



Low Smoke emission



Zero halogen



ImpactResistant



UV Resistant



Rodent Resistant



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 4 to 61 conductors of 1.4 mm nominal diameter, PE insulation. The conductors are stranded in layers to form the core which is then protected by an LSZH sheath type ATISTI. They are used as signalling cables in railways infrastructures. For installation in ducts or directly buried. Appropriate for external installation and in tunnels where fire resistant characteristics and protection against rodents are required.

CONSTRUCTION

- **Conductors:** Annealed copper. Nominal diameter 1.4 mm.
- **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.** Aluminium copolymer tape longitudinally applied with overlap and bonded to the inner sheath.
- **Inner sheath** LSZH material
- **Armour:** Corrugated steel copolymer tape, longitudinally applied with overlap.
- **Outer sheath:** UV resistant LSZH material coloured green RAL 6018.
- **Sheath markings:** 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 costumer



ELECTRICAL CHARACTERISTICS (20°C)

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

MECHANICAL CHARACTERISTICS

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

Bending radius: 15 x R_{cable}

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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DIMENSIONS AND WEIGHTS

Diameter: 1.40 mm					
Code	No. conductors	Cable Diam. (mm)	Aprox weight. (kg/km)	Length (m)	Drum type
EA470DAA4000402N	4	14.9	294	1000	A0
EA470DAA4000702N	7	16.8	383	1000	A2
EA470DAA4000902N	9	17.8	438	1000	A2
EA470DAA4001202N	12	19.1	518	1000	A2
EA470DAA4001902N	19	21.6	683	1000	A4
EA470DAA4002702N	27	24.1	875	1000	A4
EA470DAA4003702N	37	26.5	1090	1000	A4
EA470DAA4004802N	48	28.8	1321	1000	A6
EA470DAA4006102N	61	31.7	1620	1000	A6

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