

PETROLEUM FILLED ARMoured MULTICONDUCTOR RAILWAY SIGNALING CABLES, ADIF SPECIFICATION



Signaling cable



Impact Resistant



Water blocked



UV Resistant



Rodent Resistant



ROHS compliant

SPECIFICATIONS

Construction: ADIF ET-03.365.051.6 2nd Edition

DESCRIPTION AND APPLICATION

Cables from 4 to 61 polyethylene insulated conductors with diameter of 1.4 mm. The conductors are stranded in layers to form the core that is filled with petroleum filing compound and protected by an EAPSP sheath. They are used as railway signalling cables. For installation in ducts or directly buried. This sheath is rodent resistant.

CONSTRUCTION

- **Conductors:** Annealed copper wire, 1.4 mm in diameter.
- **Insulation:** Solid polyethylene.
- **Cabling elements:** Insulated conductors.
- **Lay-up:** Stranded in layers. Colour code as per ADIF ET-03.365.051.6.
- **Filling compound:** PE jelly.
- **Core wrapping.** Dielectric tape longitudinal applied with overlap.
- **Cable screen.** Aluminium copolymer tape, longitudinal applied with overlap and bonded to the polyethylene internal sheath.
- **Inner sheath:** Polyethylene.
- **Armour:** Corrugated copolymer coated steel tape, longitudinally applied with overlap.
- **Outer sheath:** UV resistant black polyethylene.
- **Sheath marking :** The sheath shall be marked, at a 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 \pm 0,5 / Maximum: 11,9
Minimal insulation resistance ($M\Omega \times km$, 15°C, 500 V)	25000
Dielectric strength (Vdc, 3 s)	
conductor – conductor	3000
conductor - screen	5000

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

EA480C0-Ed1

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MECHANICAL CHARACTERISTICS

Operating temperature range : Since -25° C to +75° C

Minimum radius of curvature: 15 x R_{cable}

DIMENSIONS AND WEIGHTS

Diameter : 1.40 mm					
Code	No. Cond.	Cable Diam. (mm)	Aprox Weight. (kg/km)	Length (m)	Drum Type
EA480C0A4000402N	4	14.8	275	1000	A0
EA480C0A4000702N	7	15.7	325	1000	A2
EA480C0A4000902N	9	19.0	465	1000	A2
EA480C0A4001202N	12	18.4	475	1000	A2
EA480C0A4001902N	19	20.5	625	1000	A4
EA480C0A4002702N	27	23.4	855	1000	A4
EA480C0A4003702N	37	26.7	1080	1000	A6
EA480C0A4004802N	48	30.2	1355	1000	A6
EA480C0A4006102N	61	32.4	1570	1000	A6

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