## EA470K0-Ed1

# MULTICONDUCTOR RAILWAY SIGNALING CABLES, ARMOURED PE SHEATH WITH A Rf OF 0,1. ADIF SPECIFICATION

















#### **STANDARDS**

Construction. ADIF ET-03.365.051.6

### **DESCRIPTION AND APPLICATION**

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

### CONSTRUCTION

500

- 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 wires helically applied. •
- Inner sheath: Polyethylene. •
- Armour: Two 0.8 mm thick steel tapes helically applied. •
- Outer sheath: UV resistant black polyethylene. •
- **Sheath marking**: The outer sheath shall be marked at regular intervals, with the following information:
  - Name of manufacturer/Year/Length marks 0
  - Other type of marks according to the costumer 0

ELECTRICAL CHARACTERISTICS (20°C)	1,4 mm		
Conductor resistance (Ω/km)	Average: 11,2±0,5 / Maximum: 11,9		
Minimum insulation resistance (MΩxkm, 20ºC, 500 V)	35000		
Dielectric strength (Vac, 3 s)			
conductor – conductor	3000		
conductor - shield	5000		
REDUCTION FACTOR, R <sub>k</sub> (50 Hz)	1,4		
Induced Voltage (V/km)			
200	0.1		

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

Page 1/2

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0.1



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## **MECHANICAL CHARACTERISTICS**

Temperature range: from -25° C to +75° C Bending radius: 15 x  $R_{\text{cable}}$ 

## **DIMENSIONS AND WEIGHTS**

Diameter : 1.40	) mm				
Code	No. conductors	Cable Diam.	Aprox weight.	Length	Drum
		(mm)	(kg/km)	(m)	type
EA470K0A4000402N	4	20.5	994	1000	A4
EA470K0A4000702N	7	20.1	999	1000	A4
EA470K0A4000902N	9	21.1	1078	1000	A4
EA470K0A4001202N	12	22.4	1207	1000	A4
EA470K0A4001902N	19	24.9	1458	1000	A4
EA470K0A4002702N	27	27.2	1716	1000	A6
EA470K0A4003702N	37	30.0	2030	1000	A6
EA470K0A4004802N	48	32.5	2355	1000	A6
EA470K0A4006102N	61	35.0	2709	1000	A8

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Page 2/2

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