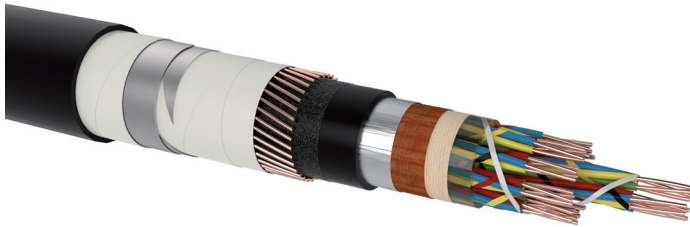


## AJ-02YSOF(L)2YDB2Y

PE/PE Railway telecommunication cable, screened, armoured, water-proof

### DESIGN



- 1 | Copper conductor, round solid (RE)
- 2 | Core insulation (foam skin PE), cores star quaded and quads stranded in layers, core stranding petrol jelly filled
- 3 | Screen (inner covering paper and copolymer laminated aluminium tape which is welded to the Inner PE sheath)
- 4 | Inner protective covering (impregnated paper tape)
- 5 | Screen (copper wires)
- 6 | Inner protective covering (plastic tape)
- 7 | Armouring (two layers galvanized steel tapes)
- 8 | Inner protective covering (plastic tape)
- 9 | Sheath (PE, black)

### APPLICATION

Telecommunication cables with protection against inductive interference are used as railway cables for telecommunication and data transmission and are suitable for underground laying and in cable conduits.

### TECHNICAL DATA



**Standard:**  
P-2518/2002  
Amendment No.2 Approved under No. 53839/2017/MAV



**Test voltage:**  
core / core 2000 V AC, 2 min. / 50 Hz  
Al screen / Cu screen 4000 V AC, 2 min.



**Temperature range:**  
laying temperature: min. -5 °C  
operating temperature: -40 °C up to 70 °C



**Bending radius (min.):**  
12 x Ø of cable



**Core identification:**  
According to specification: 53839/2017/MAV

#### Electrical Properties

Conductor loop resistance, max.	(Ω/km)	31.5
Resistance unbalances, max.	(%)	1
Insulation resistance core/core min. 500 V/1min	(GΩ.km)	10
Insulation resistance core/Al tape min. 500 V/1min	(MΩ.km)	10
Operating capacity, nominal, maximum	(nF/km)	35
Deviation of operating capacity from nominal value	(%)	-10
Deviation of operating capacity from maximal value	(%)	5
Capacitance unbalance at 800 Hz, max. - k1	(pF/425m)	210
Capacitance unbalance at 800 Hz, max. - k1 average	(pF/425m)	70
Capacitance unbalance at 800 Hz, max. - k9-12	(pF/425m)	210
Capacitance unbalance at 800 Hz, max. - e1-2 100 % of values	(pF/425m)	700
Capacitance unbalance at 800 Hz, max. - e1-2 95 % of values	(nF/km)	550
Reduction factor at 50 Hz as function of voltage, max.	()	10 V/km = 0.15 -> 200 V/km = 0.05

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Number of cores x element x nominal diameter (mm)	Outer diameter (mm) appr.	Total weight (kg/km) appr.	Standard lengths / packing
<b>AJ-02YSOF(L)2YDB2Y</b>			
7 x 4 x 1.2	44.7	3017	500 D, 1000 D
12 x 4 x 1.2	50.1	3906	500 D, 1000 D
19 x 4 x 1.2	57.4	5067	500 D, 1000 D

Technical changes reserved. All figures are therefore without guarantee.

5.10.2023, 11:16