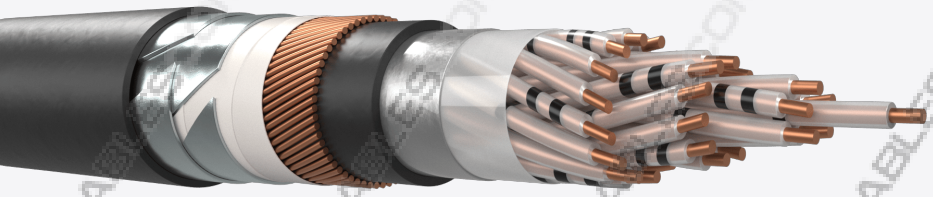
Cable AJ-2YOF(L)2YDB2Y_H115-H145 RK600

RAILWAY SIGNALLING CABLES, MULTICORE, PE SHEATH FOR EXTERNAL INSTALLATIONS WATERBLOCKING AND RODENT RESISTANT



Description and application

Cables from 1 to 200 conductors of 0.9, 1.4 and 1.8 mm, polyethylene insulated. Conductors are stranded in layers to form the core which is filled with a low dielectric compound to prevent water penetration and then is protected by an anti-inductive (L)2YDB2Y sheath with reduction factor according to customer’s requirements. They are used as control cables up to 100 Hz signals, especially in rail infrastructures, when protection is required against the induction of high voltage lines. For installation in ducts or directly buried. The cable is rodent resistant. Generally according to DB AG 416.0116 and DB AG 416.0113

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Construction

- Conductors: Annealed cooper solid wire, 0.9, 1.4 and 1.8 mm diameter.
- Insulation: Solid polyethylene. (2Y)
- Cabling element: Conductors.
- Core filling: Flooded with low dielectric factor compound to make the cable waterproof. (OF)
- Core formation: Stranded in concentric layers.
- Moisture barrier: Aluminium tape bonded to the inner sheath.(L)
- Inner sheath: PE sheath. (2Y)
- Screening: Layer of copper wires (Ø0,9/1,2/1,4/1,8 mm). (D)
- Armouring: Two helically applied steel tapes (0,5/0,8 mm thickness). (B)

- Outer sheath: UV resistant black polyethylene. (2Y)
- Sheath marks: The sheath shall be marked, at regular intervals with the following information:
  - SIGNAL / AJ-2YOF(L)2YDB2Y / Capacitance / Manufacturer / Length marks
  - Other type of marks according to the costumer

ELECTRICAL CHARACTERISTICS (20°C)

	0.9	1.4	1.8
Maximum resistance (Ω/km)	≤ 28.9	≤ 11.9	≤ 7.2
Minimum insulation resistance (MΩxkm, 20°C, 500V)	≥1500	≥1500	≥1500
Mutual capacity (nF/km, 800 Hz)	≤115	≤145	≤145
Dielectric strength (Vdc, 2min) Conductor - Conductor	3500	3500	3500
Dielectric strength (Vdc, 2min) Conductor - Screen			
AS/DC operating voltage (V)			

MECHANICAL AND THERMAL PROPERTIES

Maximum allowable radius	Installation 20 x Ø cable Operation 15 x Ø cable
Operating temperature range	-40º C to +60º C
Installation temperature range	-10º C to +60º C

DIMENSIONS AND WEIGHTS

Cable AJ-2YOF(L)2YDB2Y_H115-H145 RK600 x 0.9

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
2x1	458	15,2
4x1	505	16
7x1	565	17
10x1	656	18,8
12x1	680	19,1
14x1	712	19,6
20x1	794	20,6
24x1	895	22,4
30x1	966	23,2
40x1	1072	24,2
50x1	1249	26,8
60x1	1362	27,8
80x1	1643	30,8
100x1	1825	31,8
120x1	2142	35,3

Cable AJ-2YOF(L)2YDB2Y_H115-H145 RK600 x 1.4

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
2x1	530	16,6
4x1	606	17,7
7x1	708	19,1
10x1	860	21,6
12x1	906	22

14x1	964	22,7
20x1	1112	24,1
24x1	1280	26,6
30x1	1424	27,7
40x1	1668	29,5
50x1	1999	33,1
60x1	2223	34,5
80x1	2748	38,5

Cable AJ-2YOF(L)2YDB2Y_H115-H145 RK600 x 1.8

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
2x1	598	17,8
4x1	701	19,1
7x1	849	20,9
10x1	1051	24
14x1	1209	25,3
20x1	1440	27,1
24x1	1708	30,6
30x1	1922	31,9
40x1	2261	33,7
50x1	2771	38,5
80x1	3897	45,1