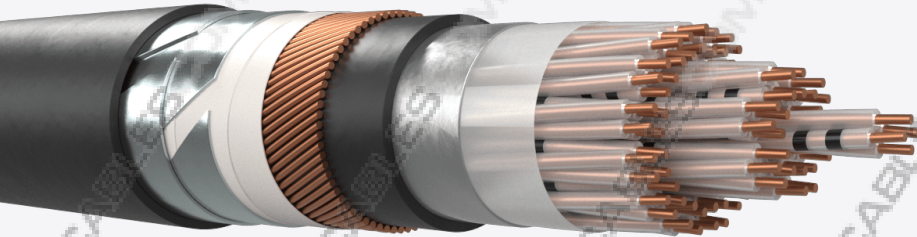


Cable AJ-2Y(L)2YDB2Y_H45 RK500

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



Description and application

Cables from 1 to 40 quads of 0.9 or 1.4 mm, polyethylene insulated. Quads are stranded in layers to form the core (dry core) which is then protected by an anti inductive (L)2YBD2Y sheath with reduction factor according to customer's requirements. They are used as control cables up to 90 kHz 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 416.0115

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Construction

- Conductors: Annealed copper solid wire, 0.9 or 1.4 mm. diameter.
- Insulation: Solid polyethylene. (2Y)
- Cabling element: quads and 2 stranded perforated sheathing conductors (≥ 7 quads) to detect water presence. Identification according to DB AG 416.0116
- Core formation: Stranded in Layers.
- Screen and moisture barrier: Aluminium tape. (L)
- Inner sheath: PE sheath. (2Y)
- Screening: Layer of copper wires ($\varnothing 0,9/1,2/1,4/1,8$ 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-2Y(L)2YDB2Y / Capacitance / Manufacturer / Length marks
 - Other type of marks according to the costumer



TITLE	EDITION	APPROVED BY	DATE
Cable AJ-2Y(L)2YDB2Y_H45 RK500	2	O.salomon	2019-03-06

ELECTRICAL CHARACTERISTICS (20°C)

	0.9	1.4
Maximum resistance (Ω/km)	≤ 56.9	≤ 23.4
Minimum insulation resistance (MΩxkm, 20°C, 500V)	≥ 10000	≥ 10000
Mutual capacity (nF/km, 800 Hz)	≤ 45	≤ 45
Dielectric strength (Vdc, 2min) Conductor - Conductor	≥ 2500	≥ 2500
Dielectric strength (Vdc, 2min) Conductor - Screen	≥ 2500	≥ 2500
AS/DC operating voltage (V)		

MECHANICAL AND THERMAL PROPERTIES

Maximum allowable radius	Un-armoured 7.5 x Ø cable armoured 10 x Ø cable
Operating temperature range	-40° C to +60° C
Installation temperature range	-10° C to +60° C

DIMENSIONS AND WEIGHTS

Cable AJ-2Y(L)2YDB2Y_H45 RK500 x 0.9

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x4	514	15.5
3x4	785	20.5
5x4	945	22.9
7x4	1069	24.2
10x4	1356	28.9
14x4	1592	31.2
20x4	1880	33.7
40x4	2918	43.4

Cable AJ-2Y(L)2YDB2Y_H45 RK500 x 1.4

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x4	649	17.7
3x4	1080	24.7
5x4	1378	28.3
7x4	1619	30.4
10x4	2123	37.3
14x4	2551	40.3