

### Cable AJ-2Y(L)2YDB2Y\_H45 RK600

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 (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)



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All drawings, weights and dimensions details, as well as tube and fibre colours in this document are only indicative and must not be considered contractual.

TITLE	EDITION	APPROVED BY	DATE
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- 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



Cables de Comunicaciones Zaragoza, SL.

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# ELECTRICAL CHARACTERISTICS (20°C)

4	¥	4	ZG T	,	0.9	1.4
Maximum resista	nce (Ω/km)	Š	8	Š	≤ 56.9	≤ 23.4
Minimum insulati	on resistance (MΩxl	km, 20°C, 500V)			≥10000	≥10000
Mutual capacity (	nF/km, 800 Hz)	Š	Š		≤45	≤45
Dielectric strengt	h (Vdc, 2min) Cond	uctor - Conductor	19		≥2500	≥2500
Dielectric strengt	h (Vdc, 2min) Cond	uctor - Screen	a d	4	≥2500	≥2500
AS/DC operating	voltage (V)	Š	8	T		T

### **MECHANICAL AND THERMAL PROPERTIES**

Maximum allowable radius		Un-armoured 7.5 x Ø cable armou	red 10 x Ø cable	G.
Operating temperature range	Ì	-40° C to +60° C	ğ	ğ
Installation temperature range	O.	-10° C to +60° €	Q <sub>3</sub>	O'



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## **DIMENSIONS AND WEIGHTS**

Cable AJ-2Y(L)2YDB2Y_H45 RK600 x 0.9					
Number of conductors	Nomin	Nominal Weight (kg/km)		inal OD (mm)	
Tx4	480	T	15.5	T	
3x4	723	45.	20.5	6-	
5x4	866	,5	22.9	<u>"Ş</u>	
7×4 9	972	9	24.2	9	
10×4	1237	Ĭ	28.9	Ĭ	
C14x4	1431	Q	30.8	Ö	
20x4	1706	2	33.3	2	
30x4	2269	.8	39.9	.8	
40×4	2673	9	42.4	4	

40	Cable AJ-2Y(L)2YDB2Y_H45 RK600 x 1.4					
8	Number of conductors	Nominal Weigh	t (kg/km)	Nominal O	D (mm)	
1x4	· · · · · · · · · · · · · · · · · · ·	604	1	L7.7		
3x4	2 2	984	2	24.7	2	
5x4	8 8	1251	8 2	28.1	8	
7×4	T I	1489	49	30.4	4	
10x4	" J	1962	) j	37.1	Ţ	
14x4	Q,	2344	<i>O</i> ) 3	39.7	O'	



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