

## Cable A-2Y(L)2YB2Y\_H45

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 which is then protected by a (L)2YB2Y anti rodent sheath. For installation in ducts or directly buried. Generally according to DB AG 416.0116 and DB AG 416.0115

They are used as control cables up to 90 kHz signals, especially in rail infrastructures, when protection is required against rodents.

## 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)
- Armouring: One or two helically applied steel tapes. (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)2YB2Y / Capacitance / Manufacturer / Length marks
  - Other type of marks according to the costumer



Cables de Comunicaciones Zaragoza, SL.

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Certified Company ISO 9001 - ISO 14001

All drawings, weights and dimensions details, as well as tube and fibre colours in this document are only indicative and

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 Cable A-2Y(L)2YB2Y H45
 2
 O.salomon
 2019-03-06



¥	9	4	J	0.9	1.	49
Maximum resista	nce (Ω/km)	Š	8	≤ 50	6.9	23.4
Minimum insulation	on resistance (MΩxk	rm, 20°C, 500V)		≥10	0000 ≥	10000
Mutual capacity (	nF/km, 800 Hz)	Š	Š	≤45	≤4	45
Dielectric strengt	h (Vdc, 2min) Condu	uctor - Conductor	9	≥25	000 ≥3	2500
Dielectric strengt	h (Vdc, 2min) Condu	ıctor - Screen	õ	≥25	500 ≥	2500
AS/DC operating	voltage (V)	T	T	8	Š	N. Control of the Con

## **MECHANICAL AND THERMAL PROPERTIES**

Maximum allowable radius	4	no-armado 7.5 x Ø cable armad	lo 10 x Ø cable	G.
Operating temperature range	ğ	-40° C a +60° C	ğ	ğ
Installation temperature range	Ĵ	-10° C a +60° C	Q,	C)



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DIMEN	ICIONIC	AND	WELCHT	-
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9 9	4. 6	)2YB2Y_H45 x 0.9	4	9
Number of conductors	Nomir	nal Weight (kg/km)	g No	minal OD (mm)
1x4	177	O.	12,3	O.
3x4	320	0	17,3	. 6.
5x4	420	Ę	19,7	, Š
7x4 9	506	49	217	9
10×4	675	ğ	25.5	Ĭ
14x4	828	O <sub>X</sub>	27.4	Ö
20x4	1060	2	30.1	2
30x4	1492	.5	36.7	.8
40×4	1840	4	39.2	4
<u>I</u>	and the second s	)2YB2Y_H45 x 1.4	<u>I</u>	<u>I</u>
Number of conductors	Nomir	nal Weight (kg/km)	No.	minal OD (mm)
1x4	249	~	14.2	
3x4	510	2	21.5	2 2
5x4	707	Š	24.9	, S
7x4 \iint	892	4	27	49
10x4	1241	Ĭ	33.9	II .
14x4	1570	Q'	36.5	()
20x4	2060	2	40.2	2 2
30x4	2953	2	49.5	2
40x4	3729	01	53.2	Ü/



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