

## Cable A-2Y(L)2YV\_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 protected by a 2YV sheath. They are used as control cables up to 90 kHz signals, especially in rail infrastructures laid in ducts. 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)
- Outer sheath: UV resistant black reinforced sheath of polyethylene. (2YV)
- Sheath marks: The sheath shall be marked, at regular intervals with the following information:
  - SIGNAL / A-2Y(L)2YV / 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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 O.salomon
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¥ ¥	29	29	0.9	1.4
Maximum resistance (Ω/km)	8	Š	≤ 56.9	≤ 23.4
Minimum insulation resistance (M $\Omega$ xkm	, 20°C, 500V)		≥10000	≥10000
Mutual capacity (nF/km, 800 Hz)	Š	Š	≤45	≤45
Dielectric strength (Vdc, 2min) Conduct	or - Conductor	9	≥2500	≥2500
Dielectric strength (Vdc, 2min) Conduct	or - Screen	ð	≥2500	≥2500
AS/DC operating voltage (V)	8	S	8	8

### **MECHANICAL AND THERMAL PROPERTIES**

Maximum allowable radius

Operating temperature range

Installation temperature range



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# **DIMENSIONS AND WEIGHTS**

9	49	Cable A-2	2Y(L)2YV_H45 x 0.9	4	9	4
Numl	ber of conductors	4. 4	ninal Weight (kg/km)	Ì	Nomi	nal OD (mm)
1x4	T	90	8	J 10	0.00	T
3x4		190		1!	5.00	
5x4	Ę	270	Ē	1	7.40	Ş
7×4	G	345	49	2	8.70	9
10×4	Ĭ	475	Ĭ	2:	3.20	Ì
14x4	Q <sub>X</sub>	611	Q <sub>X</sub>	O <sup>X</sup> 2!	5.10	O <sub>X</sub>
20x4		815	2	2	7.60	2
40x4	.8	1515	.8	30	6.70	.8
9	69	927.7	Y(L)2YV_H45 x 1.4	4	9	69
Numi	ber of conductors	Non	ninal Weight (kg/km)	isi	Nomi	nal OD (mm)
1x4	/ \$ <sup>7</sup>	145	75	y 1:	1.90	77
3x4	~	345	~	19	9.20	~
5x4	2 1	512	2 2	22	2.60	2
7x4	Š	680	j.	24	4.70	Š
10x4	G	961	G	3	1.40	9
14x4	Ĭ	1267	Ĭ	3	4.00	Ĭ



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