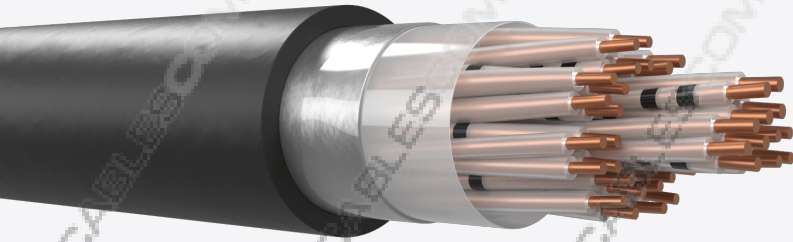


## Cable A-2Y(L)2YV\_H45

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 ( $\geq 7$  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

## 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	
Operating temperature range	
Installation temperature range	

## DIMENSIONS AND WEIGHTS

### Cable A-2Y(L)2YV\_H45 x 0.9

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x4	90	10.00
3x4	190	15.00
5x4	270	17.40
7x4	345	18.70
10x4	475	23.20
14x4	611	25.10
20x4	815	27.60
40x4	1515	36.70

### Cable A-2Y(L)2YV\_H45 x 1.4

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x4	145	11.90
3x4	345	19.20
5x4	512	22.60
7x4	680	24.70
10x4	961	31.40
14x4	1267	34.00