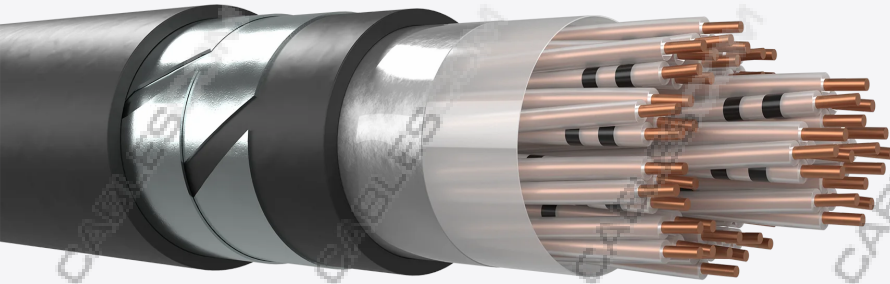


## Cable A-2Y(L)2YB2Y\_H45

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 ( $\geq 7$  quads) to detect water presence. Identification according to DB AG 416.0116
- Core formation: Stranded in Layers
- Screen and moisture barrier: Aluminium tape. (L)
- 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 customer

## 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	no-armado 7.5 x Ø cable armado 10 x Ø cable
Operating temperature range	-40° C a +60° C
Installation temperature range	-10° C a +60° C

## DIMENSIONS AND WEIGHTS

### Cable A-2Y(L)2YB2Y\_H45 x 0.9

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x4	177	12,3
3x4	320	17,3
5x4	420	19,7
7x4	506	21
10x4	675	25.5
14x4	828	27.4
20x4	1060	30.1
30x4	1492	36.7
40x4	1840	39.2

### Cable A-2Y(L)2YB2Y\_H45 x 1.4

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
1x4	249	14.2
3x4	510	21.5
5x4	707	24.9
7x4	892	27
10x4	1241	33.9
14x4	1570	36.5
20x4	2060	40.2
30x4	2953	49.5
40x4	3729	53.2