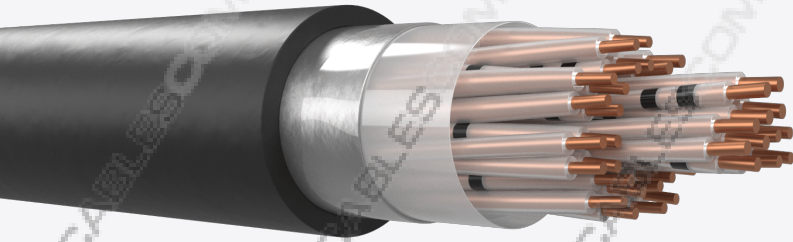


## Cable A-2Y(L)2YV\_H45

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 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       |  |
| 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           |