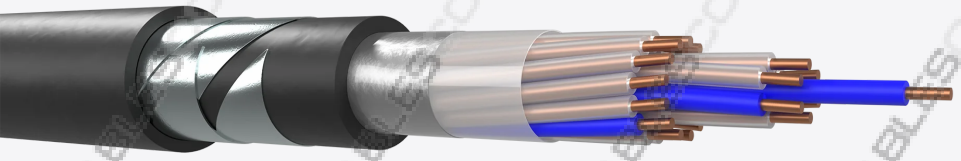
Cable A-2YOF(L)2YB2Y_H115-H145

RAILWAY SIGNALLING CABLES, MULTICORE, PE SHEATH FOR EXTERNAL INSTALLATIONS WATERBLOCKING AND RODENT RESISTANT



Description and application

Cables from 1 to 120 conductors of 0.9, 1.4 and 1.8 mm, polyethylene insulated. Conductors are stranded in layers to form the core which is then protected by a (L)2YB2Y anti rodent sheath.

They are used as control cables up to 100 Hz signals, especially in rail infrastructures, when protection is required against rodents. For installation in ducts or directly buried. Generally according to DB AG 416.0116 and DB AG 416.0113

Construction

- Conductors: Annealed cooper solid wire, 0.9, 1.4 and 1.8 mm diameter.
- Insulation: Solid polyethylene. (2Y)
- Cabling element: Conductors
- Core filling: Flooded with low dielectric factor compound to make the cable waterproof
- Core formation: Stranded in concentric layers.
- Moisture barrier: Aluminium tape bonded to the inner sheath.
- 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 / A-2YOF(L)2YB2Y / Capacitance / Manufacturer / Length marks
  - Other type of marks according to the costumer

ELECTRICAL CHARACTERISTICS (20°C)

	0.9	1.4	1.8
Maximum resistance (Ω/km)	<= 28.9	<= 11.9	<= 7.2
Minimum insulation resistance (MΩxkm, 20°C, 500V)	≥1500	≥1500	≥1500
Mutual capacity (nF/km, 800 Hz)	≤115	≤145	≤145
Dielectric strength (Vdc, 2min) Conductor - Conductor	≥2500	≥2500	≥2500
Dielectric strength (Vdc, 2min) Conductor - Screen	≥2500	≥2500	≥2500
AS/DC operating voltage (V)	420/600	420/600	420/600

MECHANICAL AND THERMAL PROPERTIES

Maximum allowable radius	20 x Ø cable
Operating temperature range	-40º C a +60º C
Installation temperature range	-10º C a +60º C

DIMENSIONS AND WEIGHTS

Cable A-2YOF(L)2YB2Y_H115-H145 x 0.9

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
2x1	211.76	13.40
4x1	265.49	14.50
7x1	341.90	15.90
10x1	444.30	18.40
14x1	532.24	19.50
20x1	659.23	20.90
24x1	784.92	23.40
30x1	906.61	24.50
40x1	1.107.54	26.10
50x1	1.374.94	29.90
60x1	1.572.85	31.30
80x1	2.021.36	35.30
100x1	2.467.73	39.20
120x1	2.843.23	41.00

Cable A-2YOF(L)2YB2Y_H115-H145 x 0.9

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
2x1	211.76	13.40
4x1	265.49	14.50
7x1	341.90	15.90
10x1	444.30	18.40
14x1	532.24	19.50
20x1	659.23	20.90

24x1	784.92	23.40
30x1	906.61	24.50
40x1	1.107.54	26.10
50x1	1.374.94	29.90
60x1	1.572.85	31.30
80x1	2.021.36	35.30
100x1	2.467.73	39.20
120x1	2.843.23	41.00

Cable A-2YOF(L)2YB2Y_H115-H145 x 1.4

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)
2x1	211.76	13.40
4x1	265.49	14.50
7x1	341.90	15.90
10x1	444.30	18.40
14x1	532.24	19.50
20x1	659.23	20.90
24x1	784.92	23.40
30x1	906.61	24.50
40x1	1.107.54	26.10
50x1	1.374.94	29.90
60x1	1.572.85	31.30
80x1	2.021.36	35.30
100x1	2.467.73	39.20
120x1	2.843.23	41.00

Cable A-2YOF(L)2YB2Y_H115-H145 x 1.8

Number of conductors	Nominal Weight (kg/km)	Nominal OD (mm)

2x1	256.05	14.60
4x1	334.49	15.90
7x1	450.31	17.70
10x1	599.72	20.80
14x1	733.04	22.10
20x1	931.06	23.90
24x1	1.125.01	27.20
30x1	1.322.27	28.70
40x1	1.628.77	30.50
50x1	2.044.87	35.30
60x1	2.359.66	37.10
80x1	3.023.57	41.50
100x1	3.622.16	43.70
120x1	4.343.84	49.00