

AJ-2YOF(L)2YDB2Y (H 115/H 145)

Signalling cable, screened, with inductive protection, longitudinally water-proof

DESIGN



- 1 | Copper conductor, round solid (RE)
- 2 | Core insulation (PE), cores stranded in layers. Core stranding filled by low capacitance filling compound.
- 3 | Inner covering
- 4 | Screen (plastic laminated aluminium foil, which is welded to the PE sheath)
- 5 | Inner sheath (PE black)
- 6 | Concentric screen (copper wires)
- 7 | Inner protective covering (plastic tape)
- 8 | Armour (galvanized steel tape)
- 9 | Inner protective covering (plastic tape)
- 10 | Sheath (PE black, UV resistant)

TECHNICAL DATA



Standard:
DB AG No.: 416.0113



Rated voltage:
600 V (DC)
420 V (AC, RMS)



Test voltage:
Core-core, core-screen: 2,500 VAC



Temperature range:
laying temperature: min. -10 °C
operating temperature: -40°C up to +60°C



Bending radius (min.):
multiple bending: 20 x Ø of cable
single bend: 15 x Ø of cable



Core identification:
DB AG No.: 416.0116



Certificate:
VDE Germany

APPLICATION

For general use as a underground cable in signalling devices.

ELECTRICAL PARAMETERS

	(mm)	0.9	1.4	1.8
Conductor diameter	(mm)	0.9	1.4	1.8
Conductor resistance, max.	(Ω/km)	28.9	11.9	7.2
Insulation resistance, min.	(MΩ.km)	1,500	1,500	1,500
Mutual capacitance at 800 Hz, max.	(nF/km)	115	145	145

Number of cores x conductor diameter (mm)	Reduction factor r_k at 16.7 Hz	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/ packing (m)
AJ-2YOF(L)2YDB2Y (H 115/H 145)				
10 x 1 x 0.9	600	21.0	650	1,000 D
20 x 1 x 0.9	600	22.0	750	1,000 D
30 x 1 x 0.9	600	24.0	900	1,000 D
50 x 1 x 0.9	600	27.0	1,190	1,000 D
80 x 1 x 0.9	600	30.0	1,560	1,000 D
120 x 1 x 0.9	600	35.0	2,040	1,000 D

AJ-2YOF(L)2YDB2Y (H 115/H 145)

Number of cores x conductor diameter (mm)	Reduction factor r_k at 16.7 Hz	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/ packing (m)
AJ-2YOF(L)2YDB2Y (H 115/H 145)				
160 x 1 x 0.9	600	39.0	2,500	1,000 D
200 x 1 x 0.9	600	41.0	2,930	1,000 D
10 x 1 x 0.9	500	21.0	750	1,000 D
20 x 1 x 0.9	500	22.0	870	1,000 D
30 x 1 x 0.9	500	24.0	1,040	1,000 D
50 x 1 x 0.9	500	27.0	1,320	1,000 D
80 x 1 x 0.9	500	30.0	1,740	1,000 D
120 x 1 x 0.9	500	35.0	2,230	1,000 D
160 x 1 x 0.9	500	39.0	2,720	1,000 D
200 x 1 x 0.9	500	41.0	3,160	1,000 D
10 x 1 x 1.4	600	22.0	790	1,000 D
20 x 1 x 1.4	600	26.0	1,090	1,000 D
30 x 1 x 1.4	600	28.0	1,350	1,000 D
50 x 1 x 1.4	600	33.0	1,890	1,000 D
80 x 1 x 1.4	600	38.0	2,630	1,000 D
120 x 1 x 1.4	600	44.0	3,560	500 D
160 x 1 x 1.4	600	49.0	4,460	500 D
200 x 1 x 1.4	600	53.0	5,290	500 D
10 x 1 x 1.4	500	22.0	920	1,000 D
20 x 1 x 1.4	500	26.0	1,230	1,000 D
30 x 1 x 1.4	500	28.0	1,490	1,000 D
50 x 1 x 1.4	500	33.0	2,080	1,000 D
80 x 1 x 1.4	500	38.0	2,850	1,000 D
120 x 1 x 1.4	500	45.0	3,880	500 D
160 x 1 x 1.4	500	50.0	4,790	500 D
200 x 1 x 1.4	500	54.0	5,650	500 D
50 x 1 x 1.4	400	36.0	2,770	1,000 D
80 x 1 x 1.4	400	42.0	3,770	500 D
120 x 1 x 1.4	400	48.0	4,870	500 D
160 x 1 x 1.4	400	53.0	5,880	500 D
200 x 1 x 1.4	400	57.0	6,830	500 D
10 x 1 x 1.8	600	25.0	1,010	1,000 D
20 x 1 x 1.8	600	29.0	1,420	1,000 D
30 x 1 x 1.8	600	33.0	1,840	1,000 D
50 x 1 x 1.8	600	39.0	2,670	1,000 D
80 x 1 x 1.8	600	45.0	3,770	500 D
120 x 1 x 1.8	600	52.0	5,210	500 D
160 x 1 x 1.8	600	58.0	6,600	500 D
200 x 1 x 1.8	600	63.0	7,900	250 D
10 x 1 x 1.8	500	25.0	1,150	1,000 D
20 x 1 x 1.8	500	29.0	1,570	1,000 D
30 x 1 x 1.8	500	33.0	2,010	1,000 D

AJ-2YOF(L)2YDB2Y (H 115/H 145)

Number of cores x conductor diameter (mm)	Reduction factor r_k at 16.7 Hz	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/ packing (m)
AJ-2YOF(L)2YDB2Y (H 115/H 145)				
50 x 1 x 1.8	500	39.0	2,870	1,000 D
80 x 1 x 1.8	500	46.0	4,090	500 D
120 x 1 x 1.8	500	53.0	5,560	500 D
160 x 1 x 1.8	500	59.0	6,980	250 D
200 x 1 x 1.8	500	64.0	8,320	250 D
30 x 1 x 1.8	400	36.0	2,690	1,000 D
50 x 1 x 1.8	400	43.0	3,800	500 D
80 x 1 x 1.8	400	49.0	5,100	500 D
120 x 1 x 1.8	400	56.0	6,730	500 D
160 x 1 x 1.8	400	62.0	8,290	250 D
200 x 1 x 1.8	400	67.0	9,730	250 D

Subject to technical changes.