We Make Modern Life Possible.

RAILWAY SIGNALLING CABLES

S-2Y2YBY single core



Railway signalling cable, unscreened, armoured

Safety and control cable for fixed installation in railway installations. The cables must be protected from the constant influence of sunlight.

TECHNICAL DATA

Standard
ÖVE-K 11

Test Voltage
800 Veff (0,14 mm) / 50 Hz 1200 Veff (≥ 0,25 mm) / 50 Hz

Rated Voltage
max. 800 Veff (? 0.75 mm2)

Bending radius (min.)
12 x Ø of cable

Fire properties
EN 60332-1-2: flame retardant

Core identification
Colour code with blue trace core in each layer

Temperature range
Laying temperature: min. -5°C
Operating temperature: -30°C up to 60°C
Conductor temperature: max. 80°C

DESIGN



1. Copper conductor, round solid (RE)
2. Core insulation (PE), cores stranded in layers
3. Inner covering (plastic tape)
4. Inner sheath (PE, black)
5. Armouring (bare steel tape, wrapped with plastic tape)
6. Sheath (PVC grey RAL 7035)

Electrical Parameters						
Conductor diameter	mm	0.75	1.5	2.5	4	6
Conductor resistance, max. at 20 °C	Ω/km	24.5	12.1	7.3	4.6	3
Insulation resistance, min. at 20 °C	MΩ/km	5000	5000	5000	5000	5000
Mutual capacitance (approx. value), at 800 Hz	nF/km	100	120	120	120	120

Number of cores x nominal cross-section (mm²)	Outer diameter appr. (mm)	Total weight appr. (kg/km)	Standard lengths/packing (m)
2 x 2.5	14.1	252	1000 T
4 x 6	18.7	535	1000 T
5 x 0.75	13.6	233	1000 T
5 x 1.5	14.7	290	1000 T
5 x 2.5	16.2	368	1000 T
5 x 4	18.5	507	1000 T
5 x 6	19.9	625	1000 T
5 x 10	22.6	880	1000 T
7 x 4	19.7	603	1000 T
10 x 0.75	16.2	328	1000 T
10 x 1.5	17.8	431	1000 T
10 x 2.5	20.1	570	1000 T
10 x 4	24.2	862	1000 T
10 x 6	26.3	1101	1000 T
14 x 1.5	18.8	512	1000 T
15 x 0.75	17.6	398	1000 T
15 x 1.5	19.5	542	1000 T
15 x 2.5	22.1	749	1000 T
15 x 4	26.9	1129	1000 T
19 x 1.5	20.2	619	1000 T
20 x 0.75	18.8	467	1000 T
20 x 1.5	21.0	663	1000 T
20 x 2.5	24.7	958	1000 T
20 x 4	29.6	1425	1000 T
20 x 6	32.4	1880	1000 T
24 x 6	36.0	2253	1000 T
30 x 0.75	21.0	604	1000 T
30 x 1.5	24.3	911	1000 T
30 x 2.5	27.9	1278	1000 T
30 x 4	33.8	1930	1000 T
30 x 6	37.8	2664	1000 T
40 x 0.75	22.8	730	1000 T
40 x 1.5	26.5	1122	1000 T
40 x 2.5	30.9	1621	1000 T
40 x 4	38.0	2515	1000 T
48 x 1.5	28.5	1294	1000 T
50 x 1.5	29.3	1352	1000 T
60 x 0.75	26.9	1015	1000 T

Number of cores x nominal cross-section (mm^2)	Outer diameter appr. (mm)	Total weight appr. (kg/km)	Standard lengths/packing (m)
60 x 1.5	30.9	1548	1000 T
60 x 2.5	36.6	2308	1000 T
60 x 4	45.5	3620	1000 T
80 x 0.75	30.0	1272	1000 T
80 x 1.5	35.0	1998	1000 T
80 x 2.5	41.2	2944	1000 T
80 x 4	51.7	4665	1000 T
100 x 0.75	33.2	1520	1000 T
100 x 1.5	38.8	2418	1000 T
100 x 2.5	46.6	3652	1000 T
100 x 4	58.5	5788	1000 T
200 x 1.5	50.5	4381	1000 T

Technical changes reserved. All figures are therefore without guarantee.

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