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RAILWAY SIGNALLING AND TELECOMMUNICATIONS CABLES

PE-ALT-CLT

Railway signalling cable, unscreened,
armoured



TECHNICAL DATA



Standard

SBB-Standard CFF FFS 3001.52.1000



Test Voltage

core/core 2000 V / 50 Hz
core/screen 2000 V / 50 Hz



Rated Voltage

420 Veff (AC)
600 V (DC)



Bending radius (min.)

20 x ϕ of cable



Core identification

SBB-Standard CFF FFS 3001.52.1000



Temperature range

Laying temperature: min. -5°C
Operating temperature: -40°C up to 70°C

DESIGN



1

Copper conductor, round solid (RE)

2

Core insulation (PE), cores star quaded and quads stranded in layers

3

Inner covering (plastic tape)

4

Sheath (PE, black)

5

Armouring (two layers galvanized steel tapes)

6

Sheath (PE black, UV-resistant)

Electrical parameters

Conductor diameter	mm	0.8	1.5
Loop resistance max	Ω/km	73.5	20.9
Capacitance unbalance at 800 Hz, k1 max.	pF/km	380	380
Capacitance unbalance k9 – k12, max. at 800 Hz	pF/km	200	200
Capacitance unbalance earth/core at 800 Hz, ea1, ea2 max.	pF/km	640	640
Mutual capacitance, max.	nF/km	49	55

Number of quads x conductor diameter	Outer diameter appr. (mm)	Total weight appr. (kg/km)
1 x 4 x 0.8	15.3	261
3 x 4 x 0.8	19.4	410
5 x 4 x 0.8	22.5	547
10 x 4 x 0.8	27.2	790
20 x 4 x 0.8	33.5	1241
30 x 4 x 0.8	38.3	1582
50 x 4 x 0.8	47.1	2365
1 x 4 x 1.5	17.9	387
3 x 4 x 1.5	25.6	765
5 x 4 x 1.5	29.4	1024
10 x 4 x 1.5	37.4	1682

CONTACT PERSON

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