

RAILWAY SIGNALLING AND TELECOMMUNICATIONS CABLES

PE-ALT-CLT Balise

Railway signalling cable, unscreened,
armoured



TECHNICAL DATA

	Standard SBB-Standard CFF FFS 3001.52.2000		Core identification SBB-Standard CFF FFS 3001.52.2000
	Test Voltage core/core 2,5 kV / 50 Hz core/screen 2,5 kV / 50 Hz		Temperature range Laying temperature: min. -5°C Operating temperature: -40°C up to 70°C
	Rated Voltage 420 Veff (AC) 600 V (DC)		
	Bending radius (min.) 20 x Ø of cable		

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 Inner sheath (PE, black)
- 5 Armouring (two layers galvanized steel tapes)
- 6 Outer sheath (PE black, UV-resistant)

Electrical Parameters

Loop resistance max	Ω/km	19.8
Insulation resistance, min. at 20 °C	$\text{M}\Omega/\text{km}$	10000
Mutual capacitance, max. (+/- 15%)	nF/km	42.3
Capacitance unbalance at 800 Hz, k1 max.	pF/km	240
Capacitance unbalance earth/core at 800 Hz, ea1, ea2 max.	pF/km	640
Characteristic impedance at 0,56/0,80 MHz, max. (+/- 10%)	Ω	120
Characteristic impedance at 1,80 MHz, max. (+/- 5%)	Ω	120
Attenuation at 8,82 kHz, max.	$\text{dB}/100 \text{ m}$	0.08
Attenuation at 0,56 MHz, max.	$\text{dB}/100 \text{ m}$	0.4
Attenuation at 0,80 MHz, max.	$\text{dB}/100 \text{ m}$	0.5
Attenuation at 1,80 MHz, max.	$\text{dB}/100 \text{ m}$	0.8

Number of quads x conductor diameter	Outer diameter appr. (mm)	Total weight appr. (kg/km)
1 x 4 x 1.53	16.5	332

CONTACT PERSON

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