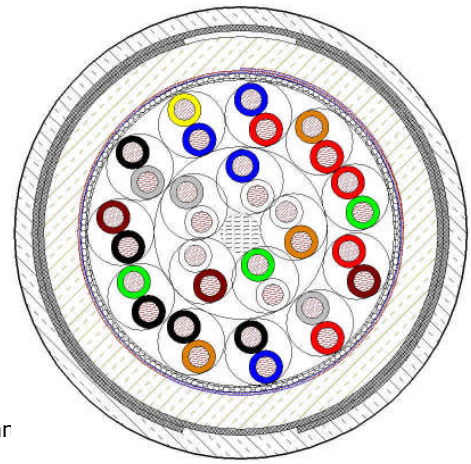
CCPSSP-FR0.3
n x 2 x 0.64, 0.9, 1.3 or 1.4 mm

PE-insulated signalling cable, protected against inductive interference, armouring, reduction factor rk = 0.3 (50 Hz)

Based on specification Spain adif E.T. 03.365.051.6, 03/2005



Principle drawing
CCPSSP-FR0.3 16x2x0,64 mr
(AJ-2Y(ST)2YB2Y) (2B0.8)

Application

Signalling cable, pair twisted, are used as railway cables and can be installed directly into the ground or in ducts.

Colour Coding, Marking

Cores: according to customer specification
Sheath: according to customer specification

Construction

CCPSSP-FR0.3	
Conductor	copper, solid, 0.64 mm; 0.9 or 1.4 mm, soft annealed
Insulation	PE (2Y)
Twisting	cores twisted to pairs, pairs twisted in concentric layers
Cable core wrapping	of two or more layers of plastic tape with overlap
Screen	of copper tapes with overlap (protection against interference)
Inner sheath	PE (2Y), black
Armouring	2 layers steel tape 0.8 mm (2B0.8)
Outer sheath	PE (2Y), black

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n x 2 x 0.64, 0.9, 1.3 or 1.4 mm

Mechanical and Thermal Properties

Admissible bending radius		≥ 10 x outer cable diameter
Temperature range	during operation	- 40°C to + 60°C
	during installation	- 10°C to + 60°C

Electrical Properties

at 20°C ± 5°C

Conductor diameter	mm	0.64	0.9	1.3	1.4
Conductor resistance					
mean value	Ω/km	54.5 ± 2.0	27.5 ± 1.0	13.2 ± 0.5	≤ 11.9
maximum individual value	Ω/km	58.0	29.0	13.9	n/a
Insulation resistance	GΩxkm	≥ 35	≥ 35	≥ 35	≥ 35
Mutual capacitance at 1000 Hz					
mean value	nF/km	52 ± 4	52 ± 4	52 ± 4	52 ± 4
maximum individual value	nF/km	58	58	58	58
Capacitance unbalance at 1000 Hz					
pair to pair mean value	pF/km	45	45	45	45
max individual value	pF/km	260	260	260	260
pair to earth mean value	pF/km	650	650	650	650
max individual value	pF/km	2625	2625	2625	2625
Attenuation at (maximum values)					
0.8 kHz	dB/km	1.04	0.74	0.52	n/a
1.5 kHz	dB/km	1.42	1.01	0.71	n/a
3 kHz	dB/km	2.01	1.42	1.01	n/a
1 MHz	dB/km	17.5	12.8	8.62	n/a
Test voltage at 50 Hz, 1 min					
core/core	V	2100	2100	2100	2100
core/screen	V	2500	2500	2500	2500
Reduction factor (f = 50 Hz and 110 – 320 V/km)		0.3	0.3	0.3	0.3

CCPSSP-FR0.3
n x 2 x 0.64, 0.9, 1.3 or 1.4 mm

Additional Properties

Dimension	Outer diameter	Cable weight net	Standard supply length	Drum size flange diameter	Transport weight gross	Copper content		
	mm	kg/km	m	mm	kg/drum	kg/km		
CCPSSP - FR0.3 n x 2 x 0.64 mm								
6 x	19.0	630	1000	1400	840	79	AA257E0382	
20 x	25.0	1055	1000	1600	1390	189	AA257E0389	
CCPSSP - FR0.3 n x 2 x 0.9 mm								
6 x	19.2	720	1000	1400	930	126		
10 x	24.0	1011	1000	1600	1328	200		
12 x	24.5	1067	1000	1600	1384	228		
CCPSSP - FR0.3 n x 2 x 1.4 mm								
2 x	22.5	904	1000	1400	1115	137		
6 x	25.5	1155	1000	1600	1472	265		
7 x	26.9	1258	1000	1600	1574	302		
10 x	30.9	1542	1000	1800	1965	410		
11 x	30.9	1576	1000	1800	1999	441		
14 x	37.1	1827	1000	2000	2392	546		
20 x	37.9	2214	500	1600	1424	748		

[PRODUCT CODE TABLE]