

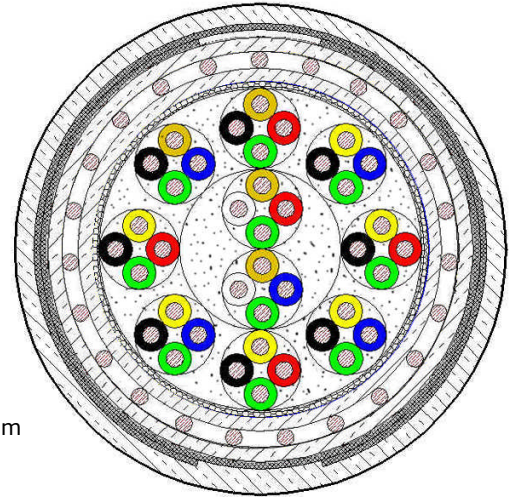
# CCPSSP-R-FR0.3

## n x 4 x 1.3 / 1.4 mm

**PE-insulated signalling cable, with protection against inductive interference and armouring, reduction factor  $r_k = 0.3$  (50 Hz)**

**According to specification Spain adif E.T. 03.365.051.6, 03/2005**

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Changes reserved according  
to technical progress



**Principle drawing**  
CCPSSP-R-FR0.3 10x4x1.4 mm  
(2B0.5)  
AJ-2YF2YD2YB2Y

## Application

Signalling cable, star quad 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-R-FR0.3	AJ-2YF2YD2YB2Y
Conductor	copper, solid, 1.3 or 1.4 mm, soft annealed
Insulation	PE (2Y)
Twisting	star quads twisted in concentric layers
Filling	cable interstices filled with filling compound, drop point > 85 °C
Cable core wrapping	one layer of water swellable material with overlap
1 <sup>st</sup> inner sheath	PE (2Y) sheath, black
Screen	of copper wires 0.9 mm (protection against interference), wrapping with one plastic tape with overlap
2 <sup>nd</sup> inner sheath	PE (2Y), black
Armouring	two layers steel tape 0.5 mm (2B0.5)
Outer sheath	PE (2Y), black

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### Mechanical and Thermal Properties

Admissible bending radius		≥ 10 x outer cable diameter
Temperature range	during operation	- 30°C to + 70°C
	during installation	- 5°C to + 50°C

### Electrical Properties

at 20°C ± 5°C

Conductor diameter	mm	1.3	1.4
Conductor resistance, mean value	Ω/km	≤ 13.7	≤ 11.7
Insulation resistance	GΩxkm	≥ 25	≥ 25
Mutual capacitance at 800 Hz	nF/km	≤ 45	≤ 45
Capacitance unbalance at 1000 Hz			
k1 max individual value	pF/460 m	≤ 250	≤ 250
k9-12 max individual value	pF/460 m	≤ 250	≤ 250
ea1/2 max individual value	pF/460 m	≤ 1200	≤ 1200
Attenuation at			
1 kHz	dB/km	0.5	0.46
10 kHz	dB/km	0.9	0.85
30 kHz	dB/km	1.4	1.3
Test voltage at 50 Hz, 1 min			
core/core	V <sub>eff</sub> /core	2100	2100
core/screen	V <sub>eff</sub>	2500	2500
core/armouring	V <sub>eff</sub>	2000	2000

### Additional Properties

Dimension	Outer diameter	Cable weight net	Standard supply length	Drum size flange diameter	Transport weight gross, unlagged	Copper content	SAP
	mm	kg/km	m	mm	kg/drum	kg/km	
<b>CCPSSP-R-FR0.3 n x 4 x 1.3 mm (2B0.5)</b>							
1 x	19.1	788	1000	1400	1000	155	C579674358
<b>CCPSSP-R-FR0.3 n x 4 x 1.4 mm (2B0.5)</b>							
1 x	22.0	810	1000	1400	1000	151	1007505
3 x	29.0	1210	1000	1600	1500	300	1007504
5 x	32.0	1620	1000	1800	2010	461	
7 x	36.0	1880	1000	2000	2410	584	
10 x	42.0	2490	1000	2400	3410	794	

[PRODUCT CODE TABLE]

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