

### Cable ZC03

RAILWAY SIGNALLING CABLES, MULTICORE, PE SHEATH FOR EXTERNAL INSTALLATIONS WATERBLOCKING AND RODENT RESISTANT



# **Description and application**

Railway signalling cable of 8 pairs (4 quads). Copper conductor of 1 mm2, insulated with solid coloured polyethylene. Stranded in quads. Shielded with a corrugated copper tape and armoured with two steel tapes helically applied. PVC unleaded outer sheath. To be installed in conduit or buried along routes electrified at 25000 volts. Generally according to SNCF CT-445 and EN 50265-2-1

This cable is protected against external inductions of the catenaries. It is used to connect the control centre to the track equipment.

#### Construction

- Conductors: Annealed copper, section 1 mm2.
- Insulation: Solid HDPE.
- Cabling elements: 4 star quads.
- Core wrapping. Longitudinal dielectric tape applied with overlap.
- Waterproof inner sheath: Polyethylene.
- Screen: Corrugated copper tape longitudinally applied with overlap.
- Protective layer: Synthetic material arranged longitudinally with overlap.
- Armour: 2 steel tapes applied helically.
- Outer sheath: Black unleaded, oil and UV resistant PVC.
- Sheath marks: The sheath shall be marked, at a regular intervals, with the following information:



Cables de Comunicaciones Zaragoza, SL.

Polígono de Malpica, calle D, nº 83. 50016 Zaragoza - Spain +34 976 729 900 |

www.cablescom.com | comercial@cablescom.com

Certified Company ISO 9001 - ISO 14001

All drawings, weights and dimensions details, as well as tube and fibre colours in this document are only indicative and must not be considered contractual.

 TITLE
 EDITION
 APPROVED BY
 DATE

 Cable ZC03
 2
 0.salomon
 2019-03-06



\* CABLESCOM - CABLE TYPE -YEAR -LENGTH MARK



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# **ELECTRICAL CHARACTERISTICS (20°C)**

Ÿ	¥	J.	4	¥	1.13
Maximum resista	nce (Ω/km)	8	8	8	≤18.1
Minimum insulati	on resistance (MΩx	cm, 20°C, 500V)	-		≥5000
Mutual capacity (	nF/km, 800 Hz)	Š	Š	Ē	200
Dielectric strengt	h (Vdc, 2min) Cond	uctor - Conductor	9	g g	<300
Dielectric strengt	h (Vdc, 2min) Cond	uctor - Screen	à	B <sup>7</sup>	B <sup>7</sup>
AS/DC operating	voltage (V)	S	S	8	8

## **MECHANICAL AND THERMAL PROPERTIES**

Maximum allowable radius	G.	49	15 x Ø cable	49
Operating temperature range	ğ	ğ	-25º C a +75º C	ğ
Installation temperature range	Q.	O'	C <sup>3</sup>	C)



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# **DIMENSIONS AND WEIGHTS**

**Number of conductors** 

Cable ZC03 x 1.13 Nominal Weight (kg/km)

Nominal OD (mm)

)2

27.0





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