

# 4x2x2.5 mm<sup>2</sup> ZPFU Railway Signalling Cable

## HYBRID & COMPOSITE CABLES

### P/N 98424A4101

#### INDUSTRY

### Applications

Audio-frequency signals, Indoor and outdoor, Portable, indoor applications, Control and audio applications, Control applications



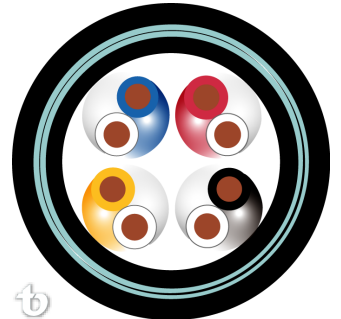
Outer Jacket Material  
FR-PVC



Outer diameter  
21.8 mm nom.



Weight  
615 kg/km



### General Construction

The cable contains:

4 PE insulated 2.5 mm<sup>2</sup> twisted pairs, pairs are cabled into a cable core,

Cable core is sheathed with a PE inner sheath, armored with a double steel tape and outer sheathed with a PVC compound.

### Design & Materials

#### Detailed Construction

Conductor Material	Annealed Bare Copper
Conductor Cross Section (mm <sup>2</sup> )	2.5
Conductor Size (mm)	1.78
Conductor Construction	Solid
Insulation Material	PE
Insulation O.D. (mm nom)	3.40
Pair Identification	Colors
Conductor Color Code	Nat.X Blk, Nat. X Blu, Nat. X Yel, Nat. X Red.
Binder	Polyester
Inner Jacket Material	LDPE
Inner Jacket Thickness (mm nom)	1.0
Inner Jacket Color	Black
Total Number Of Conductors	8
Total Number Of Conductor Units	4
Outer Jacket Thickness (mm nom)	1.6
Outer Jacket Color	Black
Marking	Per request

### Electrical Properties

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Attenuation 20kHz to 45kHz 2.5 dB/km Max.  
45kHz to 80kHz 3.0 dB/km Max.

Characteristic Impedance:-  
20kHz to 45kHz 120 Ohm  $\pm$  10 Ohm  
45kHz to 80kHz 115 Ohm  $\pm$  10 Ohm

### Performance

Max. DC Resistance ( $\Omega$ /km@20°C)	7.41
Dielectric Strength (V/minute)	4500
Min. Insulation Resistance (M $\Omega$ •km)	5000
Voltage Rating (V)	450
Min. Bend Radius (mm)	270
Min. Operating Temperature (°C)	-30
Max. Operating Temperature (°C)	+70
UV Resistance	Yes

### Standards

Flammability Rating  
IEC 60332-1  
UL 1581 VW-1

Applicable Standards  
RoHS 3 2015/863/EU



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