

# Caledonian

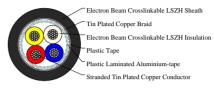
## Railway Cables www.caledonian-cables.com

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## Firerail Databus Cables For Railway Applications

Category 5E Databus Cables FRA-Cat5E-4C0.5S





#### **APPLICATIONS**

The cables are designed for permanently protected installation, inside and outside railway rolling stock, buses and other vehicles to connect fixed parts. Ethernet based networks as: infotainment, multimedia, passenger information system etc.

#### **STANDARDS**

DIN 5510-2

EN 50228-2-2

BS 6853

EN 50306-3 par 4.8/4.9/4.10

#### **VOLTAGE RATING**

300V

#### CABLE CONSTRUCTION

Conductors: Stranded tin plated copper conductor according to IEC 60228 class 5.

Insulation: Electron beam crosslinkable compound. Cable Element: Individual conductor stranded together.

EMC Screen1: Plastic laminated aluminium-tape.

EMC Screen2: Tin plated copper braid.

Separator(s): Plastic tape.

Outer Sheath: Electron beam crosslinkable compound.

#### PHYSICAL AND THERMAL PROPERTIES

Minimum Bending Radius: 6xOD Temperature Range: -40°C to +90°C

### **Electrical Properties**

Electrical Characteristics at 20°C:

Nominal Cross Section: 0.5 mm<sup>2</sup>

Nominal Conductor Resistance:40.1 Ω/km Maximum Resistance Unbalance: 1.1 Ω/km



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Maximum Capacitance: core to core:65 pF/m Core to screen:100 pF/m

Characteristic Impedance @100MHz:100+/-5  $\Omega$ 

Transfer Impedance f≤30MHz:200 mΩ/m

Nominal Voltage Rating V 300

## **DIMENSION AND PARAMETERS**

No. of Cores × Cross-sectional Area	No./Nominal Diameter of Strands	Nominal Sheath Thickness	Nom. Overall Diameter	Approx. Weight
No.×mm²	no./mm	mm	mm	kg/km
4 x 0.5	19/0.18	1.2	8.3	102





















Oil Resistant



UV Resistant



Water Resistant

