

Caledonian

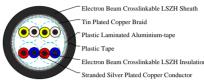
Railway Cables www.caledonian-cables.com

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Firerail Databus Cables For Railway Applications

Category 5E Databus Cables FRA-Cat5E-4P22A





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 silver 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:22 AWG

Nominal Conductor Resistance:54.4 Ω/km



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Maximum Resistance Unbalance:1.1 Ω/km

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

Characteristic Impedance @100MHz:100+/-5 Ω

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 2 x 22AWG	19/0.16	1.2	12.6	174







Highly Flexible



Impact Resistant







Low Toxcity



Oil Resistant



UV Resistant



Water Resistant

