Standards

• DIN 5510-2

Applications

Solution

• Conductors: Stranded tinned copper conductor according to IEC 60228 class 5.

which are connected via redundant gateways.

• Insulation: Foam skin-composite PE made of inner cellular layer and outer solid skin.

- Core Wrapping: Plastic tape(s).
- EMC Screen: Tinned copper braid.
- Outer Sheath: Cross-linked oil resistant LSZH compound.

Electrical Characteristics at 20°C

Nominal Cross Section	mm²	0.75
Maximum Conductor Resistance	Ω/km	26.7
Impedance@1.0-10MHz	Ω	120+/-12
Maximum Attenuation @1MHz	dB/km	10
Maximum Attenuation @1.5MHz	dB/km	13
Maximum Attenuation @2MHz	dB/km	14
Maximum Attenuation @3MHz	dB/km	18
Maximum Transfer Impedance	mΩ/m	30
Nominal Voltage Rating	V	300

Mechanical and Thermal Properties

- Minimum Bending Radius: 6×OD (single); 12×OD (multiple)
- Temperature Range: -40°C to +100°C (during operation); -20°C +50°C (during installation)



WTB (Wired Train Bus) Cables



Stranded Tinned Copper Conductor

Cross-linked Oil Resistance LSZH Sheath

Foam Skin Insulation

Tinned Copper Braid Screen

Plastic Tape



Caledonian

The cables are designed for permanent installation inside of rolling stock to connect fixed parts. A typical application is a communication system in a locomotive. The system uses a wire backed bus system to the TCN standard for control and instrumentation and for diagnostics. This bus system consists of the rail bus WTB (Wired Train Bus) and the road bus MVB (Multifunction Vehicle Bus)

Dimensions and Weight

Cable Code	No. of cores& Nominal Conductor Cross Sectional Area No.×mm ²	Nominal Diameter of Strands No/mm	Nominal Sheath Thickness mm	Nominal Overall Diameter mm	Nominal Weight kg/km
RD-WTB-02YCH-2G0.75	2×0.75	19/0.22	1.4	8.3	97
RD-WTB-02YCH-1P0.75S	1×2×0.75	19/0.22	1.4	9.0	110
RD-WTB-02YCH-2P0.75S	2×2×0.75	19/0.22	1.4	11.4	150





Impact Resistant





Fire Retardant



UV Resistant

Zero





Zero Halogen Low Smoke Emission



Oil Resistant

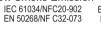


Low Toxicity

Flame Retardant NF C32-070-2.1(C2) NF C32-070-2.2(C1) IEC 60332-1/EN 50265-2-1 IEC 60332-3/EN50266



IEC 60754-1/NF C20-454 EN 50267-2-1



Low Corrosivity EN 50267-2-2/NF C32-074 IEC 60754-2/NF C20-453

