

Sumtraffic® Data Bus MVB 120Ω

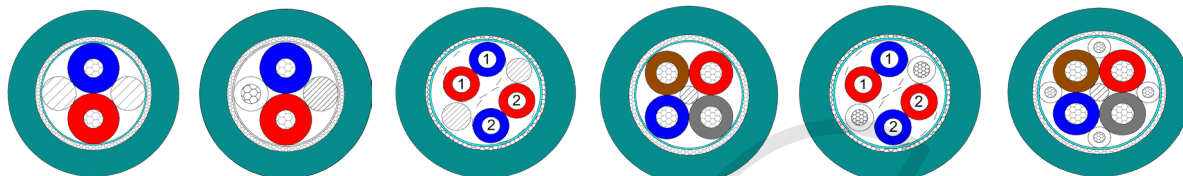
TDS STMC: 5411

Revision: 0

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EN 45545



Application

The drawing is only an example

Data transmission cable MVB. For its protected installation inside and outside of train and bus (Rolling Stock)

Design

	Sumtraffic® Data Bus MVB 120Ω 2x0,50mm ²	Sumtraffic® Data Bus MVB 120Ω 2x0,5 + 0,5mm ²	Sumtraffic® Data Bus MVB 120Ω 2x2x0,50mm ²	Sumtraffic® Data Bus MVB 120Ω 4x0,50mm ²	Sumtraffic® Data Bus MVB 120Ω 2x2x0,50mm ² + 2x0,25mm ²	Sumtraffic® Data Bus MVB 120Ω 4x0,50mm ² + 4x0,25mm ²
Single cores						
Conductor:	Flexible tinned copper 19x0,18mm	Flexible tinned copper 19x0,18mm	Flexible tinned copper 19x0,18mm	Flexible tinned copper 19x0,18mm	Flexible tinned copper 19x0,18mm	Flexible tinned copper 19x0,18mm, add. Cores 19x0,12mm
Insulation:	Foam Polyethylene	Foam Polyethylene	Foam Polyethylene	Foam Polyethylene	Foam Polyethylene	Foam Polyethylene
Core identification:	Red and Blue	Pair: Red and Blue, add. Core White	Pair 1: Red and Blue N°1, Pair 2: Red and Blue N°2	Red and Blue, Brown and Grey	Pair 1: Red and Blue N°1, Pair 2: Red and Blue N°2, add. Cores: White N° 1-2	Red and Blue, Brown and Grey, add. Cores: White N° 1-4
Pairing:	Cores stranded in pairs	Cores stranded in pairs	Cores stranded in pairs	Star Quad	Cores stranded in pairs	Star Quad
Total assembly						
Make-Up:	Cores laid-up together	Pairs laid-up together	Pairs laid-up together	Cores laid-up together	Cores laid-up together	Cores laid-up together
Screen 1:	Coated Alu/PET tape 100% coverage	Coated Alu/PET tape 100% coverage	Coated Alu/PET tape 100% coverage	Coated Alu/PET tape 100% coverage	Coated Alu/PET tape 100% coverage	Coated Alu/PET tape 100% coverage
Screen 2:	Tinned copper wire braiding	Tinned copper wire braiding	Tinned copper wire braiding	Tinned copper wire braiding	Tinned copper wire braiding	Tinned copper wire braiding
Separation:	PET tape	PET tape	PET tape	PET tape	PET tape	PET tape
Outer jacket:	Special halogen free compound	Special halogen free compound	Special halogen free compound	Special halogen free compound	Special halogen free compound	Special halogen free compound
Color:	Turquoise	Turquoise	Turquoise	Turquoise	Turquoise	Turquoise
Outer diameter:	8 mm ± 0,5 mm	8 mm ± 0,5 mm	10 mm ± 0,5 mm	8,2 mm ± 0,5 mm	10 mm ± 0,5 mm	9 mm ± 0,5 mm
Technical data						
Service temperature:	-40°C to +90°C.	-40°C to +90°C.	-40°C to +90°C.	-40°C to +90°C.	-40°C to +90°C.	-40°C to +90°C.
Minimum bending radius:						
- Fixed installation:	6 x D.	6 x D.	6 x D.	6 x D.	6 x D.	6 x D.
- Occasional flexing:	8 x D.	8 x D.	8 x D.	8 x D.	8 x D.	8 x D.
Electrical & physical data						
Maximun Voltage:	300 V a.c.	300 V a.c.	300 V a.c.	300 V a.c.	300 V a.c.	300 V a.c.
Test voltage (1 min.):	2000 Vac (C/C) & 1000 Vac (C/S).	2000 Vac (C/C) & 1000 Vac (C/S).	2000 Vac (C/C) & 1000 Vac (C/S).	2000 Vac (C/C) & 1000 Vac (C/S).	2000 Vac (C/C) & 1000 Vac (C/S).	2000 Vac (C/C) & 1000 Vac (C/S).
Insulation resistance:	>1750 MΩ·Km.	>1750 MΩ·Km.	>1750 MΩ·Km.	>1750 MΩ·Km.	>1750 MΩ·Km.	>1750 MΩ·Km.
Electrical resistance (20°C):	≤ 40,1 Ω/Km.	≤ 40,1 Ω/Km.	≤ 40,1 Ω/Km.	≤ 40,1 Ω/Km.	≤ 40,1 Ω/Km.	≤ 40,1 Ω/Km (0,5mm ²) ≤ 80,1 Ω/Km (0,25mm ²)
Impedance:	120 ± 12 Ω.	120 ± 12 Ω.	120 ± 12 Ω.	120 ± 12 Ω.	120 ± 12 Ω.	120 ± 12 Ω.
Capacity:	≤ 46 pF/m.	≤ 46 pF/m.	≤ 46 pF/m.	≤ 46 pF/m.	≤ 46 pF/m.	≤ 46 pF/m.
Copper content:	25,0 kg/km	30,0 kg/km	41,0 kg/km.	36,0 kg/km.	51,0 kg/km.	59,0 kg/km.
Cable weight:	80 kg/km	88 kg/km	125 kg/km.	94 kg/km.	127 kg/km.	114 kg/km.

Other contructions upon request.

Expect High Performance

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Fire performance

Flame retardant:	IEC 60332-1-2 / NFC 32070 C2.
Fire retardant:	EN 60332-3-25.

Other certifications / Special properties

Halogen free acc. to IEC 60754-1.
 Low smoke emission acc. to IEC 61034-2.
 ITC EN 50305 ap. 9.2 (< 6).
 Requeriments R15 and R16 for all the hazard levels HL1 - HL3 acc.
 EN 45545-2.

General Properties

CE 2014/35/EU & RoHS compliant.
 Manufacturer: Sumcab Tailor Made Cables, Barcelona - Country of origin: Spain.

Customer acceptance

Customer acceptance	Name:	Signature & Company stamp:
	Date:	

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