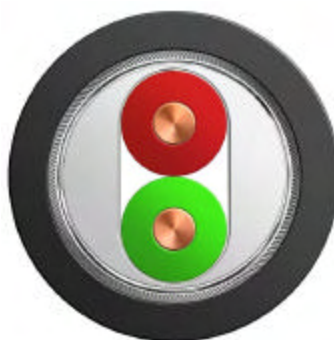




<b>DATA SHEET</b>	2170334
UNITRONIC <sup>®</sup> BUS PA FC (BU) UL/CSA (CMX)	Valid from:  14.11.2003



### Design

#### Wire:

Bare copper wire

ø 1.05 mm (0,041 in)

Insulation of foamed Polyethylene (PE) with skin

ø 2.55 mm (0,100 in)

#### Core:

2 wires, RD and GN twisted to a pair

Plastic tape, overlapped

Inner jacket: Polyvinylchloride (PVC)

ø 5.4 mm (0,213 in)

Alulaminat foil overlapped, applied longitudinally

Shield braiding of tinned copper wires 0.15 mm dia

Coverage about 90%

ø 6.1 mm (0,240 in)

#### Jacket:

Polyvinylchloride (PVC) blue (BU)

Wall thickness approx. 0.9 mm

ø (8.0 ±0.4) mm (0.315 ±0.016 in)

Marking: LAPP KABEL STUTTGART UNITRONIC<sup>®</sup> BUS PA FC UL/CSA (CMX)

1 x 2 x 1.0 \* (UL) CMX AWG18 (SHIELDED) E119100 \* ART. 2170334

#### Electrical data at 20°C

Conductor resistance

≤ 22 Ohm/km

Insulation resistance

≥ 10 MOhm\*km

Capacitance (1 kHz core/core)

≈ 50 nF/km

Capacitance (1 kHz core/screen)

≈ 92 nF/km

Operating voltage (peak)

≤ 100 V

UL-Rating

300 V

Test voltage (DC 3 sec)

= 3600 V

Characteristic Impedance (at 31.25 KHz)

(100 ±20) Ohm



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Attenuation (at 39 kHz)	≤	3	dB/km
Capacitance unbalanced	≤	2	nF/km
Inductance (at 31.25 kHz)		650	μH/km
Surface transfer impedance (at 20 MHz)	≤	5	mOhm/m
rel. velocity of propagation	≈	81	%

Mechanical and thermal characteristic

Conductor material acc. to DIN EN 13602 Cu-ETP-A...

Screen material acc. to DIN EN 13602 Cu-ETP-A...-B

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819) table 2/A (HD 624.3)

Jacket material acc. to DIN VDE 0207, compound type YM5

Oil resistant acc. to VDE 0472 T. 803

Flame test acc. to IEC 60332-1

Application / Special feature:

The jacket is UV-resistant

Permissible temperature range : -20°C (-68°F) up to +60°C (+140°F)

Min. bending radius allowed : repeated 10X ø , single 5X ø

Tensile strength ≤ 150 N

PVC weight with Phthalate : 51.8 kg/km

PVC weight without Phthalate : 0.0 kg/km

Weight approx. : 103 kg/km