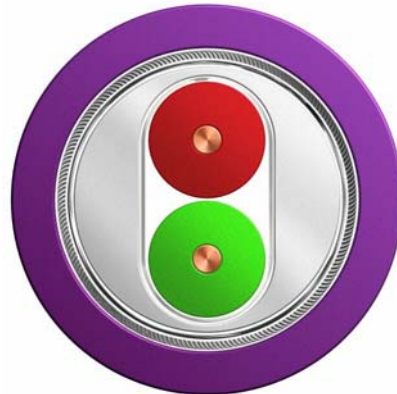




DATA SHEET	2170330
UNITRONIC® BUS L2/FIP PUR FC UL/CSA (CMX) 1x2x0.64	Valid from: 26.10.2006



Cable design

Wire

Bare copper wire ø 0.65 mm (0,026 in)
Insulation of foamed Polyethylene (PE) with skin ø 2.55 mm (0,100 in)

Core

2 wires red (RD) and green (GN) twisted to a pair
Plastic tape, overlapped
Inner Jacket Polyvinylchloride (PVC) ø 5.4 mm (0.213 in)
Aluminated foil overlapped, applied longitudinally
Shield braiding of tinned copper wires 0.15 mm diameter
Coverage about 55% ø 6.2 mm (0,244 in)

Jacket

Polyurethane (PUR) violet (VT)
Wall thickness approx. 0.9 mm ø (8.0 ±0.4) mm (0.315 ±0.016 in)

Marking: LAPP KABEL STUTTGART UNITRONIC® BUS L2/FIP PUR FC UL/CSA (CMX)
1 x 2 x 0.64 * 22AWG (SHIELDED) (UL) E224252 CMX 75°C * ROHS ART. 2170330

Electrical data at 20°C

Loop resistance	≤	110	Ohm/km
Screen resistance	≤	15	Ohm/km
Insulation resistance	≥	16000	MOhm*km
Characteristic Impedance			
3 - 20 MHz		(150 ± 15)	Ohm
31.25 - 38.4 kHz		(185 ± 18.5)	Ohm
9.6 kHz		(270 ± 27)	Ohm

Attenuation

16 MHz	≤	42	dB/km
4 MHz	≤	22	dB/km
38.4 kHz	≤	4	dB/km
9.6 kHz	≤	2.5	dB/km

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Inductance (at 31.25 kHz)	≈	1000	μH/km
Capacitance (at 1 kHz)	≈	28.5	nF/km
Capacitance unbalance to ground	≤	1500	pF/km
Operating voltage (effective value)	≤	100	V
UL Rating		300	V
Rel. velocity of propagation	≈	81	%
Test voltage (DC 3 sec)	=	3600	V

Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP-A...
Screen material acc. to DIN EN 13602 Cu-ETP-A...-B
Insulation material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3)
Jacket material acc. F45052-F5100 (similar to DIN VDE 0282)
Cold bend test acc. DIN VDE 0473 part 811-1-4 -40°C
Flame test acc. to IEC 60332-1

UL File No. E224252

Application / Special feature:

UV resistant
Mineral oil and fat resistance
RoHS compliant
“Fast Connect” cable design

Permissible temperature range : -40 °C (-40 °F) up to 70 °C (158 °F)
Minimum bending radius : ≥ 75mm
Pulling force : ≤ 100 N
Maximum permissible cable length: 100m

PVC weight with Phthalate : 22.7 kg/km
PVC weight without Phthalate : 0.0 kg/km
Weight approx. : 71 kg/km (48 lb/1000ft)

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