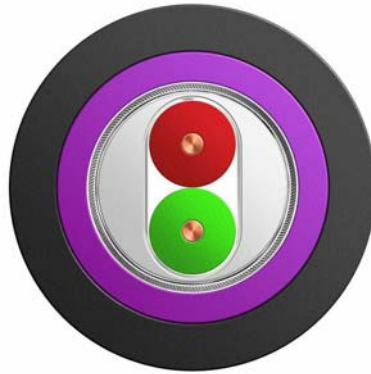




DATA SHEET	2170323
UNITRONIC® BUS L2/FIP BURIAL FC 1x2x0.64 (AWG22/1)	Valid from: 26.10.2006



Cable design

Wire

Bare copper wire
Insulation of foamed Polyethylene (PE) with skin

∅ 0.65 mm (0.026 in)
∅ 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) white (WH)
Alulaminated foil overlapped, applied longitudinally
Shield braiding of tinned copper wires 0.15 mm diameter
Coverage approx. 55%

∅ 5.4 mm (0.213 in)
∅ 6.2 mm (0.244 in)

Inner jacket

Polyvinylchloride (PVC) violet (VT)
Wall thickness approx. 0.9 mm

∅ (8.0 ±0.4) mm (0.315 ±0.016 in)

Jacket

Polyethylene (PE) black (BK)
Wall thickness approx. 1.4 mm

∅ (10.8 ±0.5) mm (0.425 ±0.020 in)

Marking: LAPP KABEL STUTTGART UNITRONIC® BUS L2/FIP BURIAL FC
1 x 2x 0.64 AWG22 (SHIELDED) ROHS ART. 2170323

Electrical data at 20°C

Loop resistance	≤	110	Ohm/km
Screen resistance	≤	15	Ohm/km
Insulation resistance	≥	16	GOhm*km
Characteristic impedance		3 - 20 MHz	(150 ± 15) Ohm
		1.25 - 38.4 kHz	(185 ± 18.5) Ohm
		9.6 kHz	(270 ± 27) Ohm

prepared by: PD-KL Hans Euler	Document: DB2170323EN	Page 1 of 2
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Attenuation

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

Inductance (at 31.25 kHz)	≈	1000	μH/km
Capacitance (at 1 kHz)	≈	28.5	nF/km
Unbalance to ground	≤	1500	pF/km
Operating voltage (effective value)	≤	100	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-

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

Insulation material acc. to DIN EN 50290-2-23 (VDE 0819) Table 2 column A (HD 624.3)

Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compound type TM52 (HD 624.2)

Cold bend test acc. DIN VDE 0473 part 811-1-4 ; after 16 hrs. storage at -40°C

Application / Special feature

UV resistant

Limited mineral oil and fats resistance

RoHS compliant

"Fast Connect" cable design

Permissible temperature range : -40 °C (-40 °F) up to 60 °C (140 °F)

Minimum bending radius allowed : repeated 7.5 X ø , single 3.7 X ø

Pulling force : ≤ 100 N

Maximum permissible cable length: 100m

PVC weight with Phthalate : 52.4 kg/km

PVC weight without Phthalate : 0.0 kg/km

Weight approx. : 115 kg/km