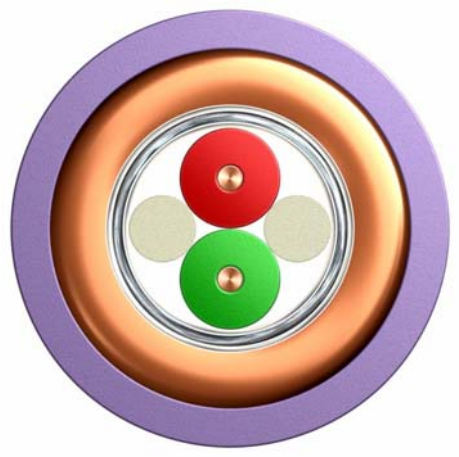
DATA SHEET	2170247
UNITRONIC® BUS L2/FIP ARM	Valid from: 26.10.2006



Design

Wire

Bare copper wire	ø 0.65 mm (0.03 in)
Insulation of foamed Polyethylene (PE) with skin	ø 2.55 mm (0.10 in)

Core

2 wires, red (RD) and green (GN) twisted to a pair with fillers in gaps
Plastic tape, overlapped
Tinned copper drain wire ø 0.65 mm
Alulaminated foil overlapped
Plastic tape, overlapped ø 6.2 mm (0.244 in)

Outer conductor: copper tape (thickness 0.25 mm) longitudinal welded.
spiral corrugated

Jacket

Polyvinylchloride (PVC) violet (VT)
Wall thickness approx. 1.0 mm ø (11.1 ±0.3) mm (0.437 ±0.012 in)

Marking: LAPP KABEL STUTTGART **UNITRONIC® BUS L2/FIP ARM** 1 x 2 x 0.65 ø ROHS
ART. 2170247

Electrical data at 20°C

Loop-Resistance			≤ 110	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
Inductance	31.25	kHz	≈ 750	µH/km
Capacitance	1	kHz	28	nF/km
Capacitance unbalance to ground			≤ 1500	pF/km
Operating voltage (effective value)			≤ 100	V
Test voltage			3600	V DC 3 sec

Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP-A...
Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3)
Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compound type TM52 (HD 624.2)
Flame retardant acc. to IEC 60332-1-2

Other characteristics

UV resistant

Permissible temperature range : -40 °C (-40 °F) up to 70 °C (158 °F)
Min. bending radius allowed : repeated 7.5 x ∅, single 3.75 x ∅
PVC weight with Phthalate : 44.6 kg/km
PVC weight without Phthalate : 0.0 kg/km
Weight approx. : 131 kg/km (88 lb/1000ft)