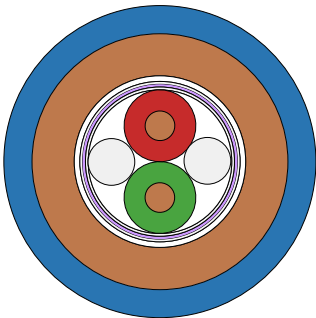




DATA SHEET	2170248
UNITRONIC® BUS PA ARM (BU)	Valid from: 26.10.2006



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, red (RD) and green (GN) twisted to a pair with fillers in gaps
 Plastic tape, overlapped
 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 ø (9.1 ±0.2) mm (0.358 ±0.008 in)

Jacket

Polyvinylchloride (PVC) blue (BU) ø (11.1 ±0.3) mm (0,437 ±0,012 in)
 Wall thickness approx. 1.0 mm

Marking: LAPP KABEL STU[↑]TGART UNITRONIC® BUS PA ARM (BU) 1 x 2 x 1,0 ROHS ART.2170248

Electrical data at 20°C

Conductor resistance	≤	23	Ohm/km
Insulation resistance	≥	10	MOhm*km
Capacitance	≤	80	nF/km
Operating voltage (peak)	≤	100	V
Test voltage (core/core rms 50Hz 1min)	=	1000	V
Test voltage (core/core rms 50Hz 1min)	=	800	V
Characteristic impedance (31.25 kHz)		(100 ±20)	Ohm
Attenuation (39 kHz)	≤	3	dB/km
Capacity unbalanced	≤	2	nF/km
Group propagation time distortion (7.9....39 KHz)	≤	1.7	µs/km



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Mechanical and thermal characteristics

Conductor/Screen material acc. to DIN EN 13602 Cu-ETP-R...
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
Oil resistant acc. to 1581 Sec. 480 (60°)

Other characteristics

UV resistant
RoHS compliant

Permissible temperature range : -25 °C (-13°F) up to 80 °C (176 °F)
Min. bending radius allowed : repeated 7.5 x \varnothing , single 5 x \varnothing
PVC weight with Phthalate : 45.3 kg/km
PVC weight without Phthalate : 0.0 kg/km
Weight approx. : 141 kg/km (95 lb/1000ft)

02YS(ST)WKY 1X2X1.0/2.55-100 BL FR OE