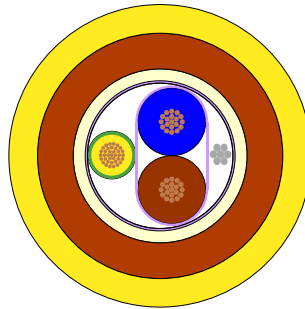




DATA SHEET	2170351
UNITRONIC® BUS FF 3 ARM (YE) UL/CSA (CMG/PLTC) 1x2x1.1 + 1.1	Valid from: 26.10.2006



Cable design

Wire LIY 0.8/2.0

Stranded bare copper wire 41 X 0.16
Insulation of Polyvinylchloride (PVC)
Wall thickness approx. 0.45 mm

∅ 1.1 mm (0,043 in)
∅ 2.0 mm (0,079 in)

Screened pair 2X (ST) 2X1.1/2.85-100 LI

Wire
Stranded bare copper wire 41 X 0.16
Insulation of irradiated Polyethylene (XLPE)
Wall thickness approx. 0.88 mm

∅ 1.1 mm (0,043 in)
∅ 2.85 mm (0,112 in)

2 wires, blue (BU) and brown (BN) twisted to a pair
Alulaminated foil overlapped

Core

1 screened pair blue (BU) / brown (BN)
1 wire LIY 0.8/2.0 green/yellow (GN/YE)
Stranded tinned copper drain wire 0.5 mm²
Alulaminated foil overlapped
Inner jacket: Polyvinylchloride (PVC)
Wall thickness approx. 0.5 mm

∅ (7.0 ±0.3) mm (0,276 ±0,012 in)

Screen/protection tube: Copper tape (thickness 0.25 mm) longitudinal welded,
annular corrugated

∅ 9.7 mm (0.382 in)

Jacket

Polyvinylchloride (PVC) yellow (YE)
Wall thickness approx. 1.2 mm

∅ (12.3 ±0.3) mm (0.484 ±0.012 in)

Marking: LAPP KABEL STU^UTGART UNITRONIC® BUS FF 3 ARM (YE) UL/CSA
1 X 2 X 1.1 + 1 x 1.1 * 19AWG (SHIELDED) (UL) E224252 CMG 105°C or PLTC
FT4 Sun Res * ROHS ART. 217351

prepared by: PD-KL Hans Euler	Document: DB2170351EN	Page 1 of 2
----------------------------------	-----------------------	-------------



DATA SHEET	2170351
UNITRONIC® BUS FF 3 ARM (YE) UL/CSA (CMG/PLTC) 1x2x1.1 + 1.1	Valid from: 26.10.2006

Electrical data at 20°C

Conductor resistance	≤	24	Ohm/km
Insulation resistance	≥	20	MOhm*km
Operating voltage (peak)	≤	300	V
Test voltage (core/core/screen rms 50 Hz 1min)	=	1500	V

Screened pair

Characteristic impedance (31.25 kHz)		(100 ±20)	Ohm
Capacitance (1 kHz core/core)	≈	65	nF/km
Capacitance (1 kHz core/screen)	≈	135	nF/km
Inductance (1 MHz)	≈	0.48	μH/m
Capacity unbalanced to ground	≤	2	nF/km
Attenuation (39 kHz)	≤	3.4	dB/km
Propagation delay change 0.25 * f _r to 1.25 * f _r	≤	1.7	μs/km

Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP-A...
Screen material acc. to DIN EN 13602 Cu-ETP-A...-R
Insulation material acc. to DIN EN 50290-2-21 (VDE 0819), compound type TI53 (HD 624.1)
Insulation material acc. to DIN EN 50290-2-23 (VDE 0819), table L/MD (HD 624.3)
Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compound type TM52 (HD 624.2)
Flame retardant acc. to UL 1685 (CSA FT 4)
Oil resistant acc. to 1581 Sec. 480 (60°)

UL File No. E224252 CMG

UL File No. E224262 PLTC

Other characteristics

Flame retardant acc. to IEC 60332-3-24 (Cat. C)
Sunlight resistant acc. to UL 1581 Sec.1200
RoHS compliant

Permissible temperature range : -25 °C (-13 °F) up to 80 °C (176 °F)
Minimum bending radius allowed : repeated 10 X ø , single 5 X ø
Weight approx. : 190 kg/km (127.3 lb/1000ft)