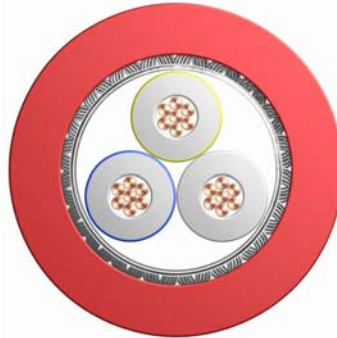




DATA SHEET	2170360
UNITRONIC® BUS CCL UL/CSA (CM/PLTC) 3x1xAWG20/7	Valid from: 26.10.2006



Design

Wire

Stranded bare copper wire 7 X 0.32 (AWG 20/7)
Insulation of foamed Polyethylene (PE) with skin

ø 0.96 mm (0,038 in)
ø 2.2 mm (0,087 in)

Core

3 wires twisted
Sequence of colours: white-blue-yellow (WH-BU-YE)
Plastic tape, overlapped
Alulaminated foil, overlapped
Stranded tinned copper drain wire 0.38 mm² (AWG 22/19)
Shield braiding of tinned copper wires 0.13 mm diameter (AWG 36)
Coverage approx. 80%

ø 5.5 mm (0.217 in)

Jacket

Polyvinylchloride (PVC) red (RD)
Wall thickness approx. 1.1 mm

ø (7.7 ±0.3) mm (0,303 ±0,012 in)

Marking: LAPP KABEL STU[↑]GART **UNITRONIC® BUS CCL UL/CSA**
3 x 1 x AWG20 * SHIELDED (UL) E224252 CM 75 °C PLTC 75°C
FT4 Sun Res ROHS ART. 2170360

Electrical data at 20°C

Conductor resistance	≤ 37.8 Ohm/km
Insulation resistance	≥ 10 GOhm*km
Capacitance (at 1 kHz)	≤ 60 nF/km (18.3 pF/ft)
Characteristic impedance (at 1 MHz)	(110 ±15) Ohm
Attenuation (at 1 MHz)	≤ 16 dB/km (0.49 dB/100 ft)
Attenuation (at 5 MHz)	≤ 35 dB/km (1.07 dB/100ft)
Operating voltage (peak)	≤ 300 V
Test voltage (core/core/screen rms 50Hz 1min)	= 2000 V



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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. to DIN EN 50290-2-22 (VDE 0819), compoundtype TM51 (HD 624.2)
Flame retardant acc. to UL 1685 (CSA FT 4)

UL File No. E224252 CM
UL File No. E224262 PLTC

Other characteristics

Sunlight resistant acc. to UL 1581 Sec.1200
RoHS compliant
Compliant with CC-Link specification Version 1.10
capable for 10 Mbit/s operation

Permissible temperature range : -40 °C (-40 °F) up to 70 °C (158 °F)
Minimum bending radius allowed : repeated 8 X ø , single 5 X ø
PVC weight with Phthalate : 32 kg/km
PVC weight without Phthalate : 0.0 kg/km
Weight approx. : 77 kg/km (51.6 lb/1000ft)

02YS(ST)CY 3X1X0.96/2.2-110 LI RD