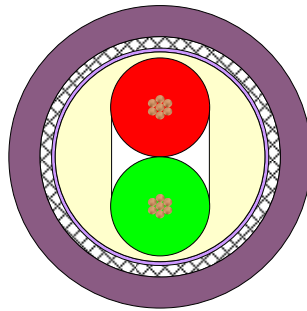




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| DATA SHEET | 2170826 |
| UNITRONIC® BUS L2/FIP 7-wire FC UL/CSA (CMG) 1x2x0.64 | Valid from: 26.10.2006 |



Cable design

Wire

Stranded bare copper wire 7 X 0.2 (AWG24) ø 0.63 mm (0,025 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
 Plastic tape, overlapped
 Inner Jacket Polyvinylchloride (PVC) ø 5.4 mm (0.213 in)
 Aluminium laminated plastic foil overlapped, applied longitudinally
 Shield braiding of tinned copper wires 0.15 mm diameter (AWG35)
 Coverage approx. 65% ø 6.1 mm (0,240 in)

Jacket

Polyvinylchloride (PVC) violet (VT)
 Wall thickness approx. 0.95 mm ø (8.0 ±0.4) mm (0.315 ±0.016 in)

Marking: LAPP KABEL STUTTGART **UNITRONIC® BUS L2/FIP 7-wire FC UL/CSA**
 1 x 2 x 0,64 * 22AWG (SHIELDED) (UL) E224252 CMG 75 °C or PLTC or AWM 20201
 600V FT4 SUN RES * ROHS ART. 2170826

Electrical data at 20°C

| | | | | |
|--------------------------|------------------|---|------------|---------|
| Loop resistance | | ≤ | 160 | Ohm/km |
| Screen resistance | | ≤ | 9.5 | Ohm/km |
| Insulation resistance | | ≥ | 16 | GOhm*km |
| Characteristic impedance | 3 - 20 MHz | | 150 ± 15 | Ohm |
| | 31.25 - 38.4 kHz | | 185 ± 18,5 | Ohm |
| | 9.6 kHz | | 270 ± 27 | Ohm |



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Attenuation

| | | | |
|----------|---|----|-------|
| 16 MHz | ≤ | 49 | dB/km |
| 4 MHz | ≤ | 25 | dB/km |
| 38.4 kHz | ≤ | 4 | dB/km |
| 9.6 kHz | ≤ | 3 | dB/km |

| | | | |
|-------------------------------------|---|------|-------|
| Inductance (at 31.25 KHz) | ≈ | 1000 | μH/km |
| Capacitance (at 1 kHz) | ≈ | 28.5 | nF/km |
| Unbalance to ground | ≤ | 150 | pF/km |
| Operating voltage (effective value) | | 100 | V |
| UL Rating | | 600 | 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-A...
 Screening 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), compound type TM52 (HD 624.2)
 Cold bend test acc. DIN IEC 60811-1-4 -40° C
 Flame retardant acc. to UL 1685 (CSA FT 4)

Other characteristics:

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

Permissible temperature range: -40°C (-40°F) up to 80°C (176°F)
 Minimum bending radius ≥ 150mm
 Pulling force ≤ 100 N

PVC weight with Phthalate : 52.1 kg/km
 PVC weight without Phthalate : 0.0 kg/km
 Weight approx. : 84 kg/km (56 lb/1000ft)

02YSY(ST)CY 1X2X0.64/2.55 FC