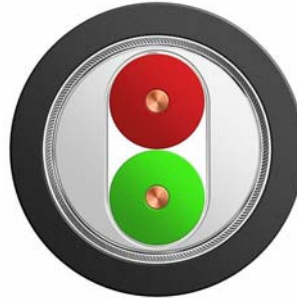




| | |
|---|--------------------------------------|
| DATA SHEET | 2170333 |
| UNITRONIC® BUS L2/FIP PE FC 1x2x0.64 (AWG22/1) | Valid from: 26.10.2006 |



Cable design

Wire

| | |
|--|----------------------|
| Bare copper wire | ø 0.65 mm (0,026 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) |
| Aluminated foil overlapped, applied longitudinally | |
| Shield braiding of tinned copper wires 0.15 mm diameter | |
| Coverage approx. 55% | ø 6.2 mm (0,244 in) |

Jacket

| | |
|-------------------------------|-----------------------------------|
| Polyethylene (PE) black (BK) | |
| Wall thickness approx. 0.9 mm | ø (8.0 ±0.4) mm (0.315 ±0.016 in) |

Marking: LAPP KABEL STUTTGART **UNITRONIC® BUS L2/FIP PE FC**
1 x 2 x 0,64 AWG22 (SHIELDED) ROHS ART. 2170333

Electrical data at 20°C

| | |
|--------------------------|------------------|
| Loop resistance | ≤ 110 Ohm/km |
| Screen resistance | ≤ 15 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 |

| | | |
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| prepared by: PD-KL Hans Euler | Document: DB2170333EN | Page 1 of 2 |
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|---|----------------------------------|
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| UNITRONIC® BUS L2/FIP PE FC 1x2x0.64 (AWG22/1) | Valid from: 26.10.2006 |

| | | | |
|---------------------------------|---|------|-------|
| Inductance (at 31.25 kHz) | ≈ | 1000 | μH/km |
| Capacitance (at 1 kHz) | ≈ | 28.5 | nF/km |
| Capacitance unbalance to ground | ≤ | 1500 | pF/km |
| Operating voltage (peak) | ≤ | 100 | V |
| Rel. velocity of propagation | ≈ | 81 | % |
| Test voltage (DC 3 sec) | = | 3600 | V |

Mechanical and thermal characteristic

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 50290-2-24 (VDE 0819), table 1/2-L/MD (HD 624.4)
Cold bend test acc. DIN VDE 0473 part 811-1-4 -40°C

Application / Special feature:

UV resistant
Limited mineral oil and fats resistance
RoHS compliant
For Food & Beverage Industry
“Fast Connect” cable design

Permissible temperature range : -40°C (-104°F) up to +60°C (+140°F)
Minimum bending radius : ≥ 75 mm
Pulling force : ≤ 100 N
Maximum permissible cable length: 100m

PVC weight with Phthalate : 17.9 kg/km
PVC weight without Phthalate : 0.0 kg/km
Weight approx. : 67 kg/km (45 lb/1000ft)