

# DATA SHEET

**2170895**

**UNITRONIC® BUS SAFETY (PVC) FC**  
**UL (AWM) 3xAWG19/19 (3 x 0.75mm<sup>2</sup>)**

Valid from:

**10.11.2006**



## Cable design

### Wire

Stranded bare copper wire 19 X 0.225 (AWG19)  
Insulation of foamed Polypropylene (PP) with skin

∅ 1.13 mm (0.044 in)  
∅ 2.55 mm (0.100 in)

### Core



3 wires twisted  
Sequence of colors: white-brown-green (WH-BN-GN)  
Plastic tape, overlapped  
Inner Jacket: Polyvinylchloride (PVC)  
Shield braiding of tinned copper wires 0.1 mm diameter (AWG38)  
Coverage approx. 80%

∅ 5.9 mm (0.232 in)

### Jacket

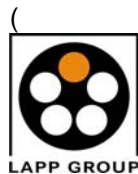
Polyvinylchloride (PVC) yellow (YE) - RAL 1003  
Wall thickness approx. 0.76 mm

∅ (8.0 +0.1 -0.3) mm (0.315 +0.004 -0.012 in)

Marking: **LAPP KABEL STUTTGART UNITRONIC® BUS SAFETY (PVC) FC**  
**3 x 0.75mm<sup>2</sup> \* 3 x AWG19/19 (SHIELDED) E63634**   
**AWM Style 2464 80°C 300V \* ROHS**  **ART. 2170895**

### Electrical data at 20°C

Conductor resistance	≤	26	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≤	45	nF/km
Characteristic impedance (1 MHz)		100 - 120	Ohm
Operating voltage (peak)	≤	300	V
Test voltage (core/core/screen rms 50Hz 1min)		2000	V



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Frequency (MHz)	1	5	10	16
Attenuation max. (dB/100m) (dB/100ft)	1.6 (0.5)	3.4 (1.0)	5.6 (1.7)	7.5 (2.3)

## 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 50290-2-25 (09YS)

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

UL Style No. 2464 (80°C/300V)

## Other characteristics

RoHS compliant

"Fast Connect" cable design

Permissible temperature range : -40 °C (-40 °F) up to 80 °C (176 °F)

Minimum bending radius allowed : repeated 7 X  $\varnothing$ , single 4 X  $\varnothing$

PVC weight with Phthalate : 46.5 kg/km

PVC weight without Phthalate : 0.0 kg/km

Weight approx. : 90 kg/km (60.3 lb/1000ft)