



DATA SHEET

2170795

**UNITRONIC® BUS SAFETY FRNC FC
UL (AWM) 3xAWG19/19 (3 x 0.75mm²)**

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: Thermoplastic copolymer (FRNC)
Shield braiding of tinned copper wires 0.1 mm diameter (AWG38)
Coverage approx. 80%

∅ 6.0 mm (0.236 in)

Jacket

Thermoplastic copolymer (FRNC) 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 FRNC FC**
3 x 0.75mm² * 3 x AWG19/19 (SHIELDED) E63634 
AWM Style 21284 80°C 30V * ROHS  ART. 2170795

Electrical data at 20°C

Conductor resistance	≤	26	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (at 1 kHz)	≤	45	nF/km
Characteristic impedance		100 - 120	Ohm
Operating voltage (peak)	≤	100	V
UL Rating		30	V
Test voltage (core/core/screen rms 50Hz 1min)		1500	V

prepared by:

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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 50290-2-27 (HD 624.7)
Flame retardant acc. to IEC 60332-1-2

UL Style No. 21284 (80°C/30V)

Other characteristics

Halogen free
RoHS compliant
"Fast Connect" cable design
Cable meets technically the requirements of SafetyBUS p system of Pilz company.
SafetyBUS p is a registered trademark of user organisation Safety Bus International.

Permissible temperature range : -25 °C (-13°F) up to 80°C (176°F)
Minimum bending radius allowed : repeated 7 X \varnothing , single 4 X \varnothing
Weight approx. : 84 kg/km (56.3 lb/1000ft)