

Suggested Copy for Lapp Limited in Farnell Catalogue

UNITRONIC® BUS AS-I (G)

(Farnell: Unitronic BUS AS-I (G))

Application

UNITRONIC® BUS AS-I (G) is a field-bus cable 3G3G-FI 2 x 1.5 with 2 cores for **AS-INTERFACE** (Actuator- Sensor Interface). Networking system for the lower field area.

The data transmission for AS-Interface telegrams and power supply for AS-Interface slaves, master, repeater, extender and sensors is done via this unscreened, geometrically-coded two-core flat cable. Contacting the conductors without stripping the insulation by insulation-displacement-system of AS-I modules. The cable is intended for fixed and flexible installation in interiors.

Design

Conductor	tinned copper wire, 1.5 mm ² , finest wires in acc. to V DE 0295 class 6 single wire diameter: 0.16mm
Insulation	rubber compound 3GI3 in acc. to VDE 0207, part 20, wall thickness 0.5mm core diameter 2.5mm
Coding	cores coloured brown and blue
Lay	two cores flat parallel. The brown core is on the side of the "nose"
Sheath	rubber compound EM3 in acc. to V DE 0207, part 21
Sheath colour	Yellow RAL 1012 art. no. 2170228 Black RAL 9005 art. no. 2170229

Electrical properties at 20° C

Conductor resistance		max. Ω/km	13.7
Capacitance		max nF/km	80
Inductance		mH/km	0.5..0.75
Characteristic impedance	at 167 kHz	Ω	70.. 140
Specific insulation resistant		Ωxcm	min. 1012
Nominal voltage U ₀		V	300
Test voltage AC		kV	2

Mechanical and thermal characteristics

Permissible pulling force		max N	150
Bending behaviour to DIN VDE 0603, test H		min double-cycles	30 000
Temperature range	Flexing	°C	-30 to + 85
	Static	°C	-40 to + 85
Minimum bending radius to V DE 0298 part 300	static	mm	24
Flame propagation		flame retardant in acc. to IEC 707 V DE 0304, part3, FH 2-25	