

UNITRONIC® BUS ASI LD G 2 x 2.5

DB2170371

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Application

UNITRONIC® BUS ASI LD G (type code: 3G3G-FL 2 x 2,5) is a flat fieldbus cable with 2 cores for AS-Interface (Actuator-Sensor Interface) networking system for the lower field area. The cable is suitable for fixed installation and for flexible applications without drag forces and forcible control in dry, damp and wet interiors. The black version is also allowed to be used outdoors.

Data transmission for AS-Interface telegrams and power supply for AS-I slaves, master, repeater, extender and sensors is done via this unscreened, geometrically-coded two-core flat cable. The contacting of the conductors by the insulation-displacement-system of the AS-I modules is possible without stripping the insulation.

Design

Conductor	tinned copper, superfine-wire stranded, nom. 2.5 mm ² acc. to IEC 60228/VDE 0295, class 6
Insulation	rubber compound EI4 acc. to HD 22.1, core Ø nom. 2.55 mm
Core identification code	cores brown (+) and blue (-)
Core assembly	2 cores parallel deviation, the brown core is assembled inline with the leading edge
Outer sheath	rubber compound EM3 in support to HD 22.1, yellow similar to RAL 1012 (article number 2170371) or black similar to RAL 9005 (article number 2170372)

Electrical properties at 20° C

Resistance	max. 8.21/km
Specific volume resistivity	min. 1 MΩxkm
Mutual capacitance	max. 80 nF/km
Inductance	0.5 mH/km up to 0.75 mH/km
Characteristic impedance	70 Ω up to 140 Ω (at 167 MHz)
Operating peak voltage	300 V (not for power purposes)
Test voltage U _{eff.} core/core	2000 V

Mechanical and thermal properties

Minimum bending radius	moved: 24 mm in cable center line fixed: 12 mm in cable center line
Permissible temperature range	moved: -25° C up to +80° C fixed: -40° C up to +80° C
Allowed drag force during installation	max. 250 N
General requirements	Dangerous and forbidden substances acc. to RoHS directive (2002/95/EG) are not allowed to the manufacturing.