
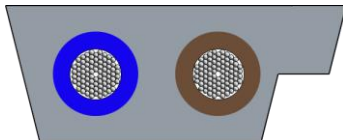


21700230	DATA SHEET	
valid from: 27.06.2025	UNITRONIC® BUS ASI (G) GY 2x1.5	

Application

UNITRONIC® BUS ASI (G) with the design code 3G3G-FI 2x1.5 is a field-bus cable with two cores for AS-INTERFACE (Actuator-Sensor Interface). The cable is intended for fixed installation and flexible applications without tensile stress and forcible control in dry and damp interiors.



Design

Conductor	1.5 mm ² extra fine-wire stranded tinned copper
Insulation	rubber-based elastomer compound, core \varnothing ca. 2.5 mm
Core identification code	brown, blue
Stranding	2 cores parallel deviation brown core assembled in line with leading edge
Outer sheath	rubber-based elastomer compound grey, similar RAL 7001

Electrical properties at 20 °C

Conductor resistance	max. 13.7 Ω /km
Insulation resistance	min. 1 M Ω xkm
Mutual capacitance	max. 80 nF/km (at 167 kHz)
Inductance	0.85 mH/km \pm 0.45 mH/km (at 167 kHz)
Characteristic impedance	105 Ω \pm 35 Ω (at 167 kHz)
Signal propagation time	\leq 8.3ns/m (at 167 kHz)
Maximum operating voltage	AS-i: 300 V
Nominal voltage	>30 V DC and \leq 60 V DC
Test voltage	core/core: 2000 V AC

Mechanical and thermal properties

Minimum bending radius	fixed installation: 3x outer diameter occasional flexing: 6x outer diameter
Temperature range	fixed installation: -40 °C up to +80 °C occasional flexing: -30 °C up to +80 °C
Halogen free	acc. to IEC 60754-1 resp. EN 60754-1
General requirements	This cable is conform to EU-Directive 2014/35/EU (Low Voltage Directive) and to EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

Creator: TOGO / PDC	Document: DB21700230EN	Page 1 of 2
Released: ALTE / PDC	Version: 01	

