

UNITRONIC® BUS ASI LD FD P 2 x 2.5
DB2170317

valid from: 11.09.2012

Application

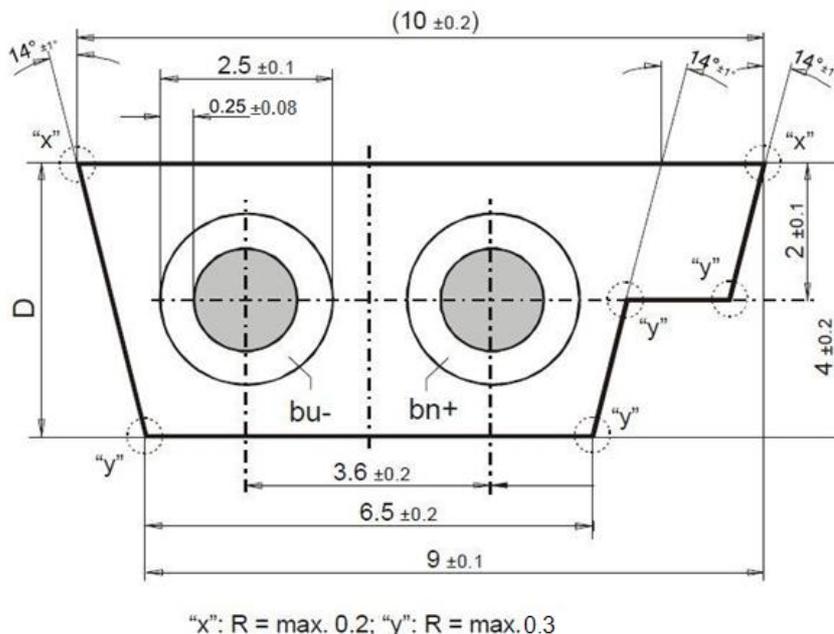
UNITRONIC® BUS ASI LD FD P (type code: 9Y11Y-FL 2 x 2,5) is a flat fieldbus cable with 2 cores for AS-Interface (Actuator-Sensor Interface) networking system for the lower field area. The cable is especially recommended, if characteristics like oil-resistance and a high mechanical strength are required. The cable is intended for applications in power chains, halogen free and flame retardant.

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. Compared to the standard cross section of 1.5 mm², this cable can be used for higher currents and greater lengths.

Approvals: UL-AWM-style 21866

Design

Conductor	tinned copper, 2.5 mm ² , super-fine-wire stranded
Insulation	halogen free TPM (PP) compound, core Ø ca. 2.5 mm
Core identification	colors of the cores: brown (+), blue (-)
Core assembly	2 cores parallel deviation, brown core assembled in line with leading edge
Outer sheath	halogen free, flame retardant PUR compound, dimensions and tolerances acc. to illustration. sheath colors: art.no. 2170317: yellow (similar to RAL 1012) art.no. 2170318: black (similar to RAL 9005)





UNITRONIC® BUS ASI LD FD P 2 x 2.5

DB2170317

valid from: 11.09.2012

Electrical properties at 20° C

Resistance (acc. to EN 50289-1-2)	max. 8.21 Ω /km
Current-carrying-capacity	25 A (acc. to VDE 0298-4, table 11, column 3)
Operating voltage	yellow: 32 V black: 48 V

Mechanical and thermal properties

Minimum bending radius (to wide cable side)	fixed installation: 3 x cable thickness moved: 6 x cable thickness
Permissible temperature range	-40 °C up to +80 °C
Oil resistance	oil resistant acc. to EN 60811-2-1
Flame resistance	flame retardant acc. to IEC 60332-2 and FT2 acc. to UL 1581
Halogen free	halogen free acc. to EN 50267-2-1
Corrosivity	acc. to EN 50267-2-2
General requirements	Dangerous and forbidden substances acc. to RoHS directive 2002/95/EG regarding Restriction of the use of certain hazardous substances (RoHS) are not allowed to the manufacturing.