UNITRONIC® BUS L2/FIP FC

Info

- Fast Connect (FC) cable design
- PROFIBUS

Application range

- For stationary installation for Bus Systems 150 Ohm impedance
- Dry and samp indoors

Product features

- This bus cable can be used for PROFIBUSDP as well as for PROFIBUS-FMS and FIP
- Based on the bit rates listed, in accordance with PNO specifications the following maximum cable lengths for a bus segment apply (cable type A, PROFIBUS-DP): 93.75 kbit/s = 1200 m1875 kbit/s = 1000 m500 kbit/s = 400 m1.5 Mbit/s = 200 m12.0Mbit/s = 100 m
- Flame retardant in acc. to IEC 60332-1-2

Norm references / Approvals

- In accordance with DIN 19245 and EN 50170, e.g. for SIEMENS SIMATIC NET, also suitable for FIP (Factory Instrumentation Protocol)

Product Make-up

- Single wire of bare copper
- Foam PE core insulationCores twisted together
- Plastic foil wrapping
- Aluminium-mylar tape screen + tinned copper wire braiding
- PVC outer sheath, violet RAL 4001

Technical data

Classification
ETIM 5.0 Class-Description: Data cable
ETIM 5.0 Class-ID: EC000830

Core identification code
red, green

Mutual capacitance
(800 Hz): max. 30 nF/km

Peak operating voltage
250V (not for power applications)

Conductor resistance
(loop): max. 115 Ohm/km

Minimum bending radius
Fixed installation: 10 x cable diameter

Characteristics impedance
150 ± 15 Ohm

Temperature range
-40°C up to +80°C

Article number	No. of pairs and AWG size	No. of cores and mm² per conductor	Dimension and cross section in mm²	Outer diameter (mm)	Colour	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS L2/FIP FC							
2170320	1 x 2 x 0.64	1 x 2 x 0.64	1 x 2 x 0.64	8.0	violet	26.0	84

• Photographs are not to scale and do not represent detailed images of the respective products. • If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.

UNITRONIC® BUS PA SWA

Info

- Process Automation (PA)
- PROFIBUS

Benefit

- PROFIBUS-PA with Steel Wire Armouring

Application range

- Designed for the system-defined transmission rates of 1.5 Mbs, and 31.25 KHz suitable for RS 485
- Suitable for direct burial and permanent installation in harsh and rugged environments
- Suitable for oil and gas, petrochemical, pharmaceutical industry
- For indoor and outdoor use

Product features

- Transmission technology for PROFIBUS-PA in acc. to IEC 61158-2 Standard
- Blue outer sheath colour for intrinsically safe system in harardous area
- Flame retardant in acc. to IEC 60332-1-2
- UV-resistant (for black outer sheath)

Product Make-up

- Stranded bare copper conductor
- Foam PE core insulation
  Aluminium mylar tape screen
- Tinned copper wire braiding
  Galvanized steel wire armoured
- PVC inner sheath, black or blue
  PVC outer sheath
- Colour: black, RAL 9005 or blue, RAL 5015

Technical data

Core identification code
red, green

Mutual capacitance
(800 Hz): approx. 52 nF/km

Peak operating voltage
max. 100V (not for power applications)

Conductor resistance
(loop): max. 44 Ohm/km

Minimum bending radius
10 x cable diameter

Characteristics impedance
at 31.25 kHz: 100 ± 20 Ohm

Test voltage
1500 V

Temperature range
-30°C to +70°C

Article number	Number of pairs and cable diameter per conductor in mm²	Outer sheath colour	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® BUS PA SWA					
3803158	1 x 2 x 1.0	black	12.8	45.0	152
3803159	1 x 2 x 1.0	blue	12.8	45.0	152

• Photographs are not to scale and do not represent detailed images of the respective products. • If not otherwise specified, all values relating to the product are nominal values. Other value information, such as tolerances, for example, can be obtained on request where available and released for publishing.