

## 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 damp indoors

### Product features

- This bus cable can be used for PROFIBUS DP 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 m
  - 187.5 kbit/s = 1000 m
  - 500 kbit/s = 400 m
  - 1.5 Mbit/s = 200 m
  - 12.0 Mbit/s = 100 m
- Flame retardant in acc. to IEC 60332-1-2

### Approvals (Norm references)



- 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 insulation
- Cores twisted together
- Plastic foil wrapping
- Aluminium-mylar tape screen + tinned copper wire braiding
- PVC outer sheath, violet RAL 4001

### Technical data

- Core identification code**  
red, green
- Mutual capacitance**  
(800 Hz): max. 30 nF/km
- Peak operating voltage**  
(not for power applications) 250 V
- Conductor resistance**  
(loop): max. 115 ohm/km
- Minimum bending radius**  
Fixed installation: 10 x outer diameter
- Test voltage**  
1500 V
- Characteristic impedance**  
150 ± 15 Ohm
- Temperature range**  
-40°C ... +80°C

Article number	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>UNITRONIC® BUS L2/FIP FC</b>				
2170320	1x2x0.64	8	26	84

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Photographs are not to scale and do not represent detailed images of the respective products.

## UNITRONIC® BUS L2/FIP SWA



**Info**

- S.W.A
- PROFIBUS

### Benefits

- PROFIBUS-DP with Steel Wire Armouring
- Provide a high operating security during data transmission

### Application range

- Designed for the system-defined transmission rates of 1.5 Mbs, 2.5 Mbs and 12 Mbs
- 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

- Suitable for SIEMENS SINEC L2 DP in acc. to DIN 19245 part 3 and EN 50170
- Suitable for interfaces RS 422 and RS 485
- Flame retardant in acc. to IEC 60332-1-2
- UV-resistant

### Approvals (Norm references)



### Product Make-up

- Solid bare copper conductor
- Foam PE core insulation
- Aluminium mylar tape screened
- Tinned copper wire braiding
- Galvanized steel wire armoured
- PVC inner sheath, violet
- PVC outer sheath
- Colour: black (RAL 9005)

### Technical data

- Core identification code**  
red, green
- Mutual capacitance**  
(800 Hz): max. 30 nF/km
- Peak operating voltage**  
(not for power applications) 250 V
- Impedance**  
at 3 to 20 MHz: 150 +/- 15 Ohm
- Conductor resistance**  
Max. 110 Ohm/km
- Minimum bending radius**  
10 x cable diameter
- Test voltage**  
1500 V
- Temperature range**  
-30°C to +70°C

Article number	Number of pairs and conductor diameter (mm)	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
<b>UNITRONIC® BUS L2/FIP SWA</b>				
3803156	1x2x0.64	12.6	30.1	280

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 UNITRONIC®  
 ETHERLINE®  
 HITRONIC®  
 EPIC®  
 SKINTOP®  
 SILVYN®  
 FLEXIMARK®  
 ACCESSORIES  
 APPENDIX