UNITRONIC® BUS LD/LD FD P

For RS485/RS422 Bus Systems; Stationary & Continuous Flex Applications; 100 - 120 Ω

UNITRONIC® BUS Long Distance (LD) cables are built after the RS-422 and RS-485 standards and are robust solutions for transmitting data over long distances and noisy environments. Stranded copper conductors and high-performance insulation optimize flexing endurance. Tinned copper braid provides superior EMI protection.

Recommended Applications

Bus systems such as Modbus, SUCOnet P, Modulink P, VariNet-P; dry or damp rooms; FD version suitable for continuous flex applications like cable tracks and moving machine parts

Approvals

Stationary Construction

Conductors: Stranded bare copper
Insulation: Polyethylene
Shielding: Copper braid
Jacket: PVC; violet

Continuous Flex Construction

Conductors: Stranded bare copper
Insulation: Polyethylene
Shielding: Copper braid
Jacket: Polyurethane; violet

Application Advantage

- Maximum EMI protection
- PUR jacket resistant to tear, abrasion & mineral oils
- Flexible for ease of routing

Cable Attributes page 640
See attribute list by part number on page 155

Complete the Installation
SKINTOP® MS-SC page 516

ÖLFLEX® CONNECT Solution
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Technical Data

Minimum Bend Radius:
- Stationary cables: 8 x cable diameter
- Continuous flex cables:
  - for installation: 6 x cable diameter
  - for continuous flexing: 15 x cable diameter

Temperature Range:
- Stationary cables: -40°C to +80°C
- Continuous flex cables:
  - for installation: -40°C to +80°C
  - for flexible use: -30°C to +70°C

Nominal Voltage: 250V

Characteristic Impedance: 100 - 120 Ω

Nominal Capacitance: 18 pF/ft (800 Hz)

Color Code: DIN 47100: Chart 8, page 697
- Pair 1: White & brown
- Pair 2: Green & yellow
- Pair 3: Gray & pink

Approvals: UL: CMX (see below)
Canada: CSA CMX (see below)

Part Number	Jacket Type	Approvals	Conductor Description (AWG/Pair)	Nominal Outer Diameter (in)	(mm)	Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
Stationary								
2170203	PVC	–	24 AWG/1pr	0.225	5.7	12	25	53112210
2170803	PVC	UL/CSA CMX	24 AWG/1pr	0.225	5.7	12	26	53112210
2170204	PVC	–	24 AWG/2pr	0.280	7.1	19	30	53112210
2170205	PVC	–	24 AWG/3pr	0.284	7.2	25	48	53112210
Continuous Flex								
2170213	PUR	–	24 AWG/1pr	0.236	6.0	12	26	53112210
2170813	PUR	UL/CSA CMX	24 AWG/1pr	0.244	6.2	12	26	53112210
2170214	PUR	–	24 AWG/2pr	0.311	7.9	22	44	53112220
2170814	PUR	UL/CSA CMX	24 AWG/2pr	0.327	8.3	22	44	53112220
2170215	PUR	–	24 AWG/3pr	0.315	8.0	26	52	53112220
2170815	PUR	UL/CSA CMX	24 AWG/3pr	0.331	8.4	26	52	53112220

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section.
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.
For current information go to our website.