

## UNITRONIC® BUS CAN

For CAN Bus Systems; Stationary Applications; 120 Ω

LAPP KABEL STUTTGART UNITRONIC® BUS CAN



UNITRONIC® BUS CAN is designed to the CAN open and ISO11898 standard. It is well suited for high-speed motion control and feedback loop applications, providing high reliability and efficient use of network bandwidth.

### Recommended Applications

Motion control systems; assembly, welding, and material handling machines; single cable wiring of multi-input sensor blocks; smart sensors; pneumatic valves; barcode readers; drives and operator interfaces

### Rate Table

| Distance (m) | AWG    | Max. Rate        |
|--------------|--------|------------------|
| 0 - 40       | 22     | 1 Mbps @ 40 m    |
| 40 - 300     | 22, 20 | 50 kbps @ 100 m  |
| 300 - 600    | 20     | 100 kbps @ 500 m |
| 600 - 1000   | 19     | 50 kbps @ 1 km   |

### Construction

**Conductors:** 7-wire strands of bare copper

**Insulation:** Polyethylene

**Shielding:** Foil wrap; tinned copper braid shield

**Jacket:** PVC; violet

### Application Advantage

- Signal integrity in stationary motion applications
- Flame retardant
- Oil-resistant jacket
- Flexible for ease of routing

### Approvals



| Cable Attributes |       | page 640 |       |
|------------------|-------|----------|-------|
| OIL              | OR-00 | FLAME    | FR-02 |
| MOTION           | FL-02 | MECH.    | MP-01 |

| Complete the Installation |                               |  |                                      |
|---------------------------|-------------------------------|--|--------------------------------------|
|                           | SKINTOP®<br>MS-SC<br>page 516 |  | EPIC® DATA<br>Connectors<br>page 184 |

### Technical Data

|                                  |                                   |                             |                              |
|----------------------------------|-----------------------------------|-----------------------------|------------------------------|
| <b>Minimum Bend Radius:</b>      | 10 x cable diameter               | <b>Nominal Capacitance:</b> | 12 pF/ft                     |
| <b>Temperature Range:</b>        | -30°C to +80°C                    | <b>Color Code:</b>          | DIN 47100: Chart 8, page 674 |
| <b>Nominal Voltage:</b>          | 250V (not for power applications) | - Pair 1:                   | White & brown                |
|                                  |                                   | - Pair 2:                   | Green & yellow               |
| <b>Characteristic Impedance:</b> | 120 Ω ± 15%                       | <b>Approvals:</b>           | UL: CMX<br>Canada: c(UL) CMX |

| Part Number       | Conductor Description (AWG/Pair) | Nominal Outer Diameter |      | Copper Weight (lbs/mft) | Approx. Weight (lbs/mft) | SKINTOP® MS-SC PG Thread |
|-------------------|----------------------------------|------------------------|------|-------------------------|--------------------------|--------------------------|
|                   |                                  | (in)                   | (mm) |                         |                          |                          |
| <b>Stationary</b> |                                  |                        |      |                         |                          |                          |
| 2170260           | 24 AWG/1pr                       | 0.224                  | 5.7  | 11                      | 28                       | 53112220                 |
| 2170261           | 24 AWG/2pr                       | 0.299                  | 7.6  | 23                      | 46                       | 53112220                 |
| 2170263           | 22 AWG/1pr                       | 0.268                  | 6.8  | 17                      | 37                       | 53112220                 |
| 2170264           | 22 AWG/2pr                       | 0.335                  | 8.5  | 31                      | 59                       | 53112220                 |
| 2170266           | 20 AWG/1pr                       | 0.296                  | 7.5  | 28                      | 60                       | 53112220                 |
| 2170267           | 20 AWG/2pr                       | 0.382                  | 9.7  | 40                      | 71                       | 53112230                 |
| 2170269           | 19 AWG/1pr                       | 0.343                  | 8.7  | 35                      | 73                       | 53112220                 |
| 2170270           | 19 AWG/2pr                       | 0.453                  | 11.5 | 54                      | 95                       | 53112230                 |

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.