

## BIB SERIES

High Performance Interbus  
E.L.V BUS/Automation Cable

### APPLICATIONS:

**Interbus** These cables are suitable for Interbus S systems to network sensors and actuators with all standard automation instruments.

### PRODUCT FEATURES:

- ▶ Low capacitance polyethylene insulation
- ▶ Special oil resistant SPVC
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (See Technical Section)



### CONSTRUCTION:

**Conductor** Annealed plain copper stranded high flexibility (Class 5).

**Insulation** Polyethylene.

**Screening** Plain copper braided screen.

**Sheath** PVC.

### CHARACTERISTICS:

**Operating Temperature Range** Fixed -40°C to 70°C.

**Maximum Conductor Temperature** 70°C.

**Nominal Voltage** 250V.

**Minimum Bending Radius** Fixed 15 x cable diameter.

**Sheath Colour** Turquoise.

**Standard Core Colours** White/Brown, Green/Red, Yellow/Green + (Blue, Red, Green/Yellow).

**Relevant Standards** Interbus specification 2.0, IEC 61158, UL Style 2571, **RoHS** Compliant.

| Electrical Data                 |                       |
|---------------------------------|-----------------------|
| <b>Characteristic Impedance</b> | 120 Ω +/- 15 Ω        |
| <b>Conductor Resistance</b>     | 96 Ω/km               |
| <b>Insulation Resistance</b>    | 1.0 GΩ x km min       |
| <b>Mutual Capacitance</b>       | 60.0 nF/km nom        |
| <b>Test Voltage</b>             | 1.0kV                 |
| <b>Attenuation</b>              | 256 kHz < 1.5 dB/100m |
|                                 | 772 kHz < 2.4 dB/100m |
|                                 | 1 MHz < 2.7 dB/100m   |
|                                 | 4 MHz < 5.2 dB/100m   |
|                                 | 10 MHz < 8.4 dB/100m  |
|                                 | 16 MHz < 11.2 dB/100m |
|                                 | 20 MHz < 11.9 dB/100m |

| Code                                  | No. of Cores<br>x Size<br>(mm <sup>2</sup> ) | Nearest<br>AWG | Approx.<br>Overall Diameter<br>(mm) | Approx.<br>Weight<br>(Kg/Km) |
|---------------------------------------|--|----------------|-------------------------------------|------------------------------|
| <b>INTERBUS FIXED WIRING (INDOOR)</b> |  |                |                                     |                              |
| <b>BIB03/2/0.22</b>                   | 3 Pair 0.22                                  | 24             | 7.0                                 | 70                           |
| <b>BIB03/2/0.22+3/1.0</b>             | 3 Pair 0.22 + 3 x 1.0                        | 24             | 8.0                                 | 96                           |