

BCB SERIES

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



APPLICATIONS:

Control Area Network (CANBUS) Suitable for use in the area of automation technology where complex controllers and control units are networked.

Industrial Suitable for use in the textile or construction machine industry and medical industries.

CANBUS fixed wiring cables Suitable for indoor use for fixed applications.

CANBUS Drag Chain Cable Suitable for use in energy chains and industrial and outdoor areas subject to harsh environments.

PRODUCT FEATURES:

- ▶ Low capacitance special foam skin polyethylene insulation
- ▶ Special oil resistant SPVC (CANBUS fixed wiring series)
- ▶ Good reverse bending strength microbe and hydrolysis resistant PUR Sheath (CANBUS drag chain series)
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Good elongation at break (CANBUS drag chain series)
- ▶ Good dielectric properties (CANBUS drag chain series)
- ▶ Heat, oil and chemical resistant (See *Technical Section*)

CONSTRUCTION:

Conductor Annealed plain copper stranded (Class 2).

Insulation PE polyethylene.

Screening Tinned copper braided screen.

Sheath PVC or PUR.

CHARACTERISTICS:

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

Maximum Conductor Temperature 70°C.

Nominal Voltage 250V.

Minimum Bending Radius Fixed 8 x cable diameter (Fixed wiring CANBUS cables) / Flexible 7.5 x cable diameter (CANBUS drag chain cables).

Sheath Colour Violet or Grey (Also available in intrinsically safe Blue on request).

Standard Core Colours 1 Pair – White, Brown
4 Core – White/Brown and Green/Yellow.

Relevant Standards Profibus acc. To DIN 19245 T3 and EN50170, UL Style 2571, **RoHS** Compliant.

Electrical Data	CANBUS Fixed Wiring (Indoor) 0.22mm ²	CANBUS Fixed Wiring (Indoor) 0.5mm ²	CANBUS Drag Chain (Industrial)
Characteristic Impedance	120 Ω +/- 10%	120 Ω +/- 10%	120 Ω +/- 10%
Conductor Resistance (max)	186 Ω/km	186 Ω/km	186 Ω/km
Insulation Resistance	1.0 GΩ x km min	1.0 GΩ x km min	1.0 GΩ x km min
Mutual Capacitance	40 nF/km nom	40 nF/km nom	40 nF/km nom
Test Voltage	1.5kV	1.5kV	1.5kV

Code	No. of Cores x Size (mm ²)	Nearest AWG	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Outer Sheath Material
CANBUS FIXED WIRING (INDOOR)					
BCB01/2/0.22	1 PAIR 0.22	24	5.4	16	SPVC
BCB02/2/0.22	2 PAIR 0.22	24	6.9	21	SPVC
BCB04/0.5	4 x 0.5	20	8.5	44	SPVC
BCB01/2/0.5	1 PAIR 0.5	20	7.0	30	SPVC
CANBUS DRAG CHAIN (INDUSTRIAL)					
BCBDC01/2/0.25	1 PAIR 0.25	24	6.2	18	PUR
BCBDC04/0.25	4 x 0.25	24	6.9	21	PUR

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