

Belden 8106 Multi-Conductor Low Capacitance Cable



Eland Product Group: A4B

APPLICATION

An overall foil and braid screen cable used over extended distances at high data rates for RS 232 and RS 422 applications.

CHARACTERISTICS

Voltage Rating

300V

Temperature Rating

-30°C to +80°C

Minimum Bending Radius

10 x overall diameter

CONSTRUCTION

Conductor

Class 2 stranded tinned copper

Insulation

Datalene[®] FPE (Foam Polyethylene)

Screen 1

Beldfoil[®] (Aluminium foil polyester tape)

Drain Wire

Tinned copper

Screen 2

TCWB (Tinned Copper Wire Braid)

Sheath

PVC (Polyvinyl Chloride)

Core Identification

- Pair 1: White/Blue Blue/White
- Pair 2: White/Orange Orange/White
- Pair 3: White/Green Green/White
- Pair 4: White/Brown Brown/White
- Pair 5: White/Grey Grey/White
- Pair 6: Red/Blue Blue/Red

Sheath Colour

- Grey

STANDARDS

Generally to Belden 8106, EIA RS 232, RS 422

Vertical tray fire propagation and smoke release test UL 1685



ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab[®], an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab[®] as meeting the requirements of the BSI RoHS Trusted Kitemark[™].





DIMENSIONS

ELAND PART NO.	BELDEN REFERENCE	NO. OF PAIRS	AWG (NO. OF STRANDS)	NOMINAL DIAMETER OF STRANDS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A4B8106	8106	6	AWG24(7)	0.032	8.66	80.36

ELECTRICAL CHARACTERISTICS

AWG (NO. OF STRANDS)	CAPACITANCE pF/m		VELOCITY OF PROPAGATION %	IMPEDANCE ohms	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Conductor to Conductor	Conductor to Shield			
AWG24(7)	41.01	72.18	78	100	78.74

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.