

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.

CONSTRUCTION

Conductor

Class 2 stranded tinned copper conductor

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)

CABLE STANDARDS

EIA RS 232, RS 422



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating

300V

Temperature Rating

-30°C to +80°C

Minimum Bending Radius

10 x overall diameter

Pair 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

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		VELOCITY OF PROPAGATION %	IMPEDANCE ohms	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Conductor to Conductor pF/m	Conductor to Shield pF/m			
AWG24(7)	41.01	72.18	78	100	78.74