Belden 9844 Multi-Conductor Low Capacitance Computer Cables

Eland Product Group: **A4B**

APPLICATION

Used widely for audio, instrumentation and computer networks and for use in electronics. Also used for Controller Area Networks (CANopen solutions) which enable the communication between devices of different manufacturers and guarantees an interchangeability of devices.

CONSTRUCTION

Conductor
Stranded tinned copper conductor

Insulation
PE (Polyethylene)

Screen 1
Beldfoil® (Aluminium Foil Polyester Tape)

Screen 2
TCWB (Tinned Copper Wire Braid)

Drain Wire
Tinned copper

Sheath
PVC (Polyvinyl Chloride)

CABLE STANDARDS

EIA RS485

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
4 Pair - **Pair 1:** White/Blue Blue/White
Pair 2: White/Orange Orange/White
Pair 3: White/Green Green/White
Pair 4: White/Brown Brown/White

Sheath Colour
Grey

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DIMENSIONS

ELAND PART NO.	BELDEN REFERENCE	NO. OF PAIRS	AWG (NO. OF STRANDS)	NOMINAL DIAMETER OF STRANDS		NOMINAL OVERALL DIAMETER		NOMINAL WEIGHT	
				in.	mm	in.	mm	lbs/1000ft.	kg/km
A4B9844	9844	4	AWG24(7)	0.032	0.812	0.39	9.906	71	106

PERFORMANCE CHARACTERISTICS

BELDEN REFERENCE	CAPACITANCE (CONDUCTOR TO CONDUCTOR)		CAPACITANCE (CONDUCTOR TO SHIELD)		NOMINAL DELAY		ATTENUATION AT 1MHz	
	pF/ft.	pF/m	pF/ft.	pF/m	ns/ft.	ns/m	db/100ft.	db/m
9844	12.8	41.98	23	75.44	1.6	5.248	0.6	0.006

ELECTRICAL CHARACTERISTICS

BELDEN REFERENCE	IMPEDANCE ohms	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C		NOMINAL VELOCITY OF PROPAGATION %	CURRENT CARRYING CAPACITY AT 25°C Amps
		ohms/1000ft.	ohms/km		
9844	120	24	78.744	66	1.54

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