

Belden 9844 Multi-Conductor Low Capacitance Computer Cables



Eland Product Group: A4B

APPLICATION

This 9844 Belden cable can be 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.

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
PE (Polyethylene)

Screen 1
Beldfoil[®] (Aluminium Foil Polyester Tape)

Screen 2
TCWB (Tinned Copper Wire Braid)

Drain Wire
Tinned copper

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

Sheath Colour
 Grey

STANDARDS

Belden 9844, EIA/RS485



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
A4B9844	9844	4	AWG24(7)	0.81	9.906	106

PERFORMANCE CHARACTERISTICS

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
12.8	41.98	23	75.44	1.6	5.248	0.6	000.6

ELECTRICAL CHARACTERISTICS

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

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.