

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



THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



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, the RoHS Directive 2015/853/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





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.