

# 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 guarantee an interchangeability of devices.

## Standards

EIA RS485

## Technical Data

### Conductor

Stranded tinned copper

### Voltage Rating

300V

### Insulation

PE (Polyethylene)

### Temperature Rating

-40°C to +60°C

### Screen 1

Beldfoil® (aluminium foil polyester tape)

### Minimum Bending Radius

10 x overall diameter

### Screen 2

Tinner copper

### Pair Identification

1 Pair: White/Blue + Blue/White

2 Pairs: White/Blue + Blue/White, White/Orange + Orange/White

3 Pair: White/Blue + Blue/White, White/Orange + Orange/White,

White/Green + Green/White

4 Pairs: White/Blue + Blue/White, White/Orange + Orange/White,

White/Green + Green/White, White/Brown + Brown/White

### Sheath

PVC (Polyvinyl Chloride)

### Sheath Colour

Grey

## Dimensions

Eland Part Number	Belden Reference	No. of Pairs x Pair x AWG (No. of Strands) # x # x AWG(#)	Nominal Diameter of Strands		Nominal Overall Diameter		Nominal Weight	
			in.	mm	in.	mm	lbs/1000ft.	kg/Km
A4B9844	9844	4 x 2 x AWG24(7)	0.032	0.812	0.390	9.906	81.70	121.55

## Performance Characteristics

Belden Reference	Capacitance (Conductor to Conductor)		Capacitance (Conductor to Shield)		Nominal Delay		Attenuation	
	pF/ft.	pF/m	pF/ft.	pF/m	ns/ft.	ns/m	db/100ft.	db/m
9844	12.80	41.98	23.00	75.44	1.600	5.248	0.60	18.29

## Electrical Characteristics

Belden Reference	Impedance ohms	Conductor Resistance at 20°C		Nominal Velocity of Propagation %	Current Carrying Capacity at 25°C Amps
		ohms/1000ft.	ohms/Km		
9844	120	24.00	78.72	66.000	1.54

The information contained within this datasheet is for guidance only. When selecting accessories such as cleats, glands, etc please note that actual cable dimensions may vary due to manufacturing tolerances.