

Belden 9843 - LSZH 300V (Belden Alternative) Cable



Eland Product Group: **A3B**

APPLICATION

Widely used in audio, instrumentation and computer networks and for use in electronics. Also used for Controller Area Networks (CAN open solutions) which enable the communication between devices of different manufacturers and guarantees an interchangeability of devices. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

CONSTRUCTION

Conductor

Class 2 stranded tinned copper

Insulation

PE (Polyethylene)

Inner Sheath

LSZH (Low Smoke Zero Halogen) compound

Screen 1

Al/PET (Aluminium foil/Polyester tape)

Screen 2

TCWB (Tinned Copper Wire Braid)

Drain wire

Tinned Copper

Sheath

LSZH (Low Smoke Zero Halogen) compound

CABLE STANDARDS

UL1581, UL758 Generally to Belden 9843 LSZH. 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

-20°C to +80°C

Minimum Bending Radius

10 x overall diameter

Core Identification

- White/Blue + Blue/White
- White/Orange + Orange/White
- White/Green + Green/White

Sheath Colour

- Grey

DIMENSIONS

ELAND PART NO.	BELDEN ALTERNATIVE	NO. OF PAIRS	AWG (NO. OF STRANDS)	NOMINAL DIAMETER OF STRANDS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A3B9843LSZH	9843LSZH	3	AWG24(7)	0.2	9.15 (+/-0.18mm)	108

ELECTRICAL CHARACTERISTICS

VELOCITY TO PROPAGATION %	IMPEDANCE ohms	CAPACITANCE AT 1kHz pF/m	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
66	120	90+/-20	90.41