



# DeviceNet LSZH SWB Cable



Eland Product Group: A8P

## APPLICATION

A LSZH (Low Smoke Zero Halogen) cable designed for use on DeviceNet systems. The cable incorporates both a power and data pair for backbone wiring. These cables are also referred to as DeviceNet trunk cables. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

## CHARACTERISTICS

**Voltage Rating**  
125V

**Temperature Rating**  
Fixed: -20°C to +80°C  
Flexed: -5°C to +50°C

**Minimum Bending Radius**  
10 x overall diameter

## CONSTRUCTION

### Conductor

Pair 1 - Data: Class 2 Stranded tinned copper  
Pair 2 - Power: Class 2 Stranded tinned copper

### Insulation

Pair 1 - Data: Foam-skin PE (Polyethylene)  
Pair 2 - Power: Solid PE (Polyethylene)

### Shield

Al/PET (Aluminium/Polyester Tape)

### Drain Wire

Tinned copper

### Overall Shield

TCWB (Tinned Copper Wire Braid)

### Bedding

LSZH (Low Smoke Zero Halogen)

### Armour

GSWB (Galvanized Steel Wire Braid)

### Sheath

LSZH (Low Smoke Zero Halogen)

### Core Identification

Pair 1: ● Blue ○ White

Pair 2: ● Red ● Black

### Sheath Colour

● Black

## STANDARDS

IEC/EN 61158, IEC/EN 62026-3, UL1581,

Flame Retardant according to IEC/EN 60332-1-2  
Low Smoke Halogen Free according to IEC/EN 61034-1/2, IEC/EN 60754-1/2

**DeviceNet**

## THE CABLE LAB<sup>®</sup>

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](http://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 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab<sup>®</sup>.





## DIMENSIONS

ELAND PART NO.	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>		CONDUCTOR AWG		NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
	Data Pair	Power Supply Pair	Data Pair	Power Supply Pair		
A8P-DNLSZHSWB	0.25	0.25	24	22	10.3	160

## ELECTRICAL CHARACTERISTICS

### Electrical and Transmission Properties at 20°C

MAXIMUM DC RESISTANCE OF CONDUCTOR ohms/km		CAPACITANCE AT 800HZ nF/km	PROPAGATION VELOCITY AT 10MHZ %	IMPEDANCE AT 1MHZ ohms	ATTENUATION dB/100m		
Data Pair	Power	Data Pair	Data Pair	Data Pair	At 150kHz	At 500kHz	At 1MHz
77	52	39	76	120	1.0	1.6	2.3

TRANSFER IMPEDANCE AT 10MHZ mohms/m	DIELECTRIC STRENGTH kVac/1min		MINIMUM INSULATION RESISTANCE Gohms/km	
Data Pair	Conductor/Conductor	Conductor/Shield	Data Pair	Power
15	0.7	0.7	5	1

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.