



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[®]

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.	NOMINAL CROSS SECTIONAL AREA mm ²		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.