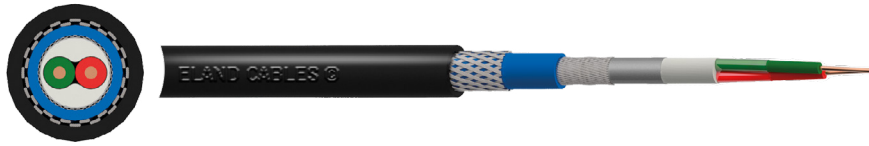


# Profibus PA LSZH SWB Cable



Eland Product Group: A8P

## APPLICATION

A LSZH (Low Smoke Zero Halogen) fieldbus cable with a SWB (Steel Wire Braid) designed for transmission where additional mechanical protection is required.

## CHARACTERISTICS

### Voltage Rating

300V (Not for power purposes)

### Temperature Rating

Fixed: -30°C to +80°C

### Minimum Bending Radius

Fixed: 15 x overall diameter

## CONSTRUCTION

### Conductor

Class 1 solid copper conductor

### Insulation

Solid PE (Polyethylene)

### Separation

PET (Polyester Tape)

### Filler

HF (Halogen free)

### Shield 1

Al/PET (Aluminium/Polyester Tape)

### Shield 2

TCWB (Tinned Copper Wire Braid)

### Inner Sheath

LSZH (Low Smoke Zero Halogen)

### Armour

GSWB (Galvanized Steel Wire Braid)

### Sheath

LSZH (Low Smoke Zero Halogen)

### Core Identification

● Green ● Red

### Outer Sheath Colour

● Black

## STANDARDS

IEC/EN 61158, UL 1581,

Flame Retardant according to IEC/EN 60332-1-2

Low Smoke Zero Halogen according to IEC/EN 60754-1/2, IEC/EN 61034-1/2

## THE CABLE LAB<sup>®</sup>

AN ISO/IEC 17025 AND IECCE 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)



SCIENCE  
BASED  
TARGETS

BUSINESS  
AMBITION FOR 1.5°C



## 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. | NO. OF PAIRS | DIAMETER OF CONDUCTOR<br>mm | NOMINAL OVERALL DIAMETER<br>mm | NOMINAL WEIGHT<br>kg/km |
|----------------|--------------|-----------------------------|--------------------------------|-------------------------|
| A8P-PALSZHSWB  | 1            | 0.85                        | 11                             | 190                     |

## ELECTRICAL CHARACTERISTICS

### Electrical and Transmission Properties at 20°C

| MAXIMUM DC RESISTANCE<br>OF CONDUCTOR<br>ohms/km | CAPACITANCE<br>AT 800HZ<br>nF/km | IMPEDANCE<br>ohms |             |          |         | NOMINAL ATTENUATION<br>dB/km |          |           | INDUCTANCE<br>mH/km |
|--------------------------------------------------|----------------------------------|-------------------|-------------|----------|---------|------------------------------|----------|-----------|---------------------|
|                                                  |                                  | At 1MHz           | At 31.25kHz | At 39kHz | 3/20MHz | At 1MHz                      | At 39kHz | At 100kHz |                     |
| 22                                               | 60                               | 80                | 100         | 100      | 150     | 15                           | 3        | 4         | 0.7                 |

| MAXIMUM PROPAGATION<br>DELAY CHANGE (7.9/39KHZ)<br>µsec/km | DIELECTRIC STRENGTH<br>kVac/1min |                  | TRANSFER IMPEDANCE<br>mohms/m |         | MINIMUM INSULATION<br>RESISTANCE<br>Gohms/km |
|------------------------------------------------------------|----------------------------------|------------------|-------------------------------|---------|----------------------------------------------|
|                                                            | Conductor/Conductor              | Conductor/Shield | At 100kHz                     | At 1MHz |                                              |
| 1.7                                                        | 2.5                              | 2.5              | 15                            | 10      | 5                                            |

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.