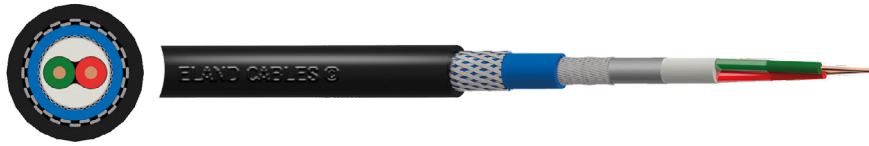


# Profibus PA LSZH SWB Cable



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

## 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.



8578



FS 672069



EMS 672067



OHS 672066

## 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™.



101 634267





## 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                        | 1                              | 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.