



# EN 50288-7 - RE-2X(st)H SWAH LSZH Cable



Eland Product Group: EN

## APPLICATION

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants (e.g. petrochemical industry etc.). Suitable for direct burial applications. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

## CHARACTERISTICS

**Voltage Rating**  
300V

**Operating Temperature**  
Fixed: -40°C to +80°C  
Flexed: 0°C to +50°C

**Minimum Bending Radius**  
10 x overall diameter

## CONSTRUCTION

**Conductor**  
0.5mm<sup>2</sup> - 0.75mm<sup>2</sup>: Class 5 flexible Copper  
1mm<sup>2</sup> and above: Class 2 stranded Copper

**Insulation**  
XLPE (Cross-Linked Polyethylene)

**Collective Screen**  
Al/PET (Aluminium/Polyester Tape)

**Drain Wire**  
Tinned Copper

**Inner Sheath**  
LSZH (Low Smoke Zero Halogen)

**Armour**  
SWA (Galvanised steel wires)

**Outer Sheath**  
LSZH (Low Smoke Zero Halogen) - UV Resistant

**Core Identification**  
Pairs: ○ White ● Black, numbered  
Triples: ○ White ● Black ● Red

**Outer Sheath Colour**  
● Blue ● Black

**Note**  
500V rated cables available on request

## STANDARDS

EN 50288-7, EN 50288-1, EN 60228

Flame Retardant to: IEC/EN 60332-1-2, IEC/EN 60332-3-24  
Low Smoke Halogen Free to: IEC/EN 60754-1/2, IEC/EN 61034-2  
UV Resistant to UL 1581-1200

## 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)



## 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/TRIPLE | NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | NOMINAL OVERALL DIAMETER<br>mm |
|-----------------|---------------------|---|--------------------------------|
| EN01P05AWUCXH** | 1P                  | 0.5   | 9                              |
| EN01P07AWUCXH** | 1P                  | 0.75  | 9.5                            |
| EN01P10AWUCXH** | 1P                  | 1   | 9.4                            |
| EN01P15AWUCXH** | 1P                  | 1.5   | 10.8                           |
| EN01T05AWUCXH** | 1T                  | 0.5   | 9.2                            |
| EN01T07AWUCXH** | 1T                  | 0.75  | 9.8                            |
| EN01T10AWUCXH** | 1T                  | 1   | 9.7                            |
| EN01T15AWUCXH** | 1T                  | 1.5   | 11.3                           |
| EN02P05AWUCXH** | 2P(Q)               | 0.5   | 11.2                           |
| EN02P07AWUCXH** | 2P(Q)               | 0.75  | 12.2                           |
| EN02P10AWUCXH** | 2P(Q)               | 1   | 12                             |
| EN02P15AWUCXH** | 2P(Q)               | 1.5   | 14.4                           |
| EN05P05AWUCXH** | 5P                  | 0.5   | 13.1                           |
| EN05P07AWUCXH** | 5P                  | 0.75  | 14.4                           |
| EN05P10AWUCXH** | 5P                  | 1   | 14.2                           |
| EN05P15AWUCXH** | 5P                  | 1.5   | 17.4                           |
| EN10P05AWUCXH** | 10P                 | 0.5   | 16.7                           |
| EN10P07AWUCXH** | 10P                 | 0.75  | 18.6                           |
| EN10P10AWUCXH** | 10P                 | 1   | 18.2                           |
| EN10P15AWUCXH** | 10P                 | 1.5   | 23.7                           |
| EN15P05AWUCXH** | 15P                 | 0.5   | 11.3                           |
| EN15P07AWUCXH** | 15P                 | 0.75  | 21.5                           |
| EN15P10AWUCXH** | 15P                 | 1   | 21                             |
| EN15P15AWUCXH** | 15P                 | 1.5   | 27.5                           |
| EN20P05AWUCXH** | 20P                 | 0.5   | 21.1                           |
| EN20P07AWUCXH** | 20P                 | 0.75  | 23.7                           |
| EN20P10AWUCXH** | 20P                 | 1   | 23.1                           |
| EN20P15AWUCXH** | 20P                 | 1.5   | 30.4                           |

P = Pairs, Q = Quads, T = Triples

\* Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below e.g. EN01P05AWUCXHBK = 0.5mm<sup>2</sup> Black

## COLOUR CODES

| COLOUR | Blue | Black |
|--------|------|-------|
| CODE   | BU   | BK    |



## CONDUCTORS

| NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C<br>ohms/km |         |
|---|---|---------|
|   | Class 2   | Class 5 |
| 0.5   | 36.36   | 39.39   |
| 0.75  | 24.8  | 26.8    |
| 1   | 18.3  | 19.7    |
| 1.5   | 12.42   | 13.43   |
| 2.5   | 7.56  | 8.05    |

## ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | MUTUAL CAPACITANCE pF/m |              | MINIMUM INSULATION RESISTANCE AT 20°C<br>Gohms/km | MAXIMUM L/R RATIO<br>μH/ohms |
|---|-------------------------|--------------|---|------------------------------|
|   | 1P / 2P(Q) / 1T only    | 5P, 10P, 20P |   |                              |
| 0.5   | 115                     | 75           | >10   | 25                           |
| 0.75  | 115                     | 75           | >10   | 25                           |
| 1   | 115                     | 75           | >10   | 25                           |
| 1.5   | 120                     | 85           | >10   | 40                           |
| 2.5   | 120                     | 85           | >10   | 65                           |

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.