



# 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**  
12 x overall diameter

## CONSTRUCTION

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

**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)

**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 according to: IEC/EN 60332-1-2, IEC/EN 60332-3-24

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

## 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.



## 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.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER 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	BL	BK



## CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C 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 mm <sup>2</sup>	MUTUAL CAPACITANCE pF/m		MINIMUM INSULATION RESISTANCE AT 20°C Gohms/km	MAXIMUM L/R RATIO 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.