



# EN 50288-7 - RE-2X(st)H LSZH PiMF 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.). Pairs are individually shielded for enhanced signal security. Not 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**  
6 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)

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

**Drain Wire**  
Tinned Copper

**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, HD383

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,  
UV Resistant to: UL 1581-1200

## THE CABLE LAB®

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](https://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 2015/85/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.





## DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
EN02P05AUICXH**	2P	0.5	7.3	268
EN02P07AUICXH**	2P	0.75	8.3	298
EN02P10AUICXH**	2P	1	8.1	335
EN02P15AUICXH**	2P	1.5	10.5	385
EN01T05AUICXH**	1T	0.5	7.8	189
EN01T07AUICXH**	1T	0.75	8.8	210
EN01T10AUICXH**	1T	1	8.6	233
EN01T15AUICXH**	1T	1.5	11.2	266
EN05P05AUICXH**	5P	0.5	9.4	380
EN05P07AUICXH**	5P	0.75	10.7	435
EN05P10AUICXH**	5P	1	10.4	500
EN05P15AUICXH**	5P	1.5	13.7	593
EN10P05AUICXH**	10P	0.5	13.1	587
EN10P07AUICXH**	10P	0.75	15	687
EN10P10AUICXH**	10P	1	14.7	917
EN10P15AUICXH**	10P	1.5	19.5	1099
EN15P05AUICXH**	15P	0.5	15.1	742
EN15P07AUICXH**	15P	0.75	17.4	970
EN15P10AUICXH**	15P	1	17	1167
EN15P15AUICXH**	15P	1.5	22.6	1417
EN20P05AUICXH**	20P	0.5	17.1	1016
EN20P07AUICXH**	20P	0.75	19.7	1200
EN20P10AUICXH**	20P	1	19.1	1416
EN20P15AUICXH**	20P	1.5	25.6	1735
EN30P05AUICXH**	30P	0.5	20.1	1317
EN30P07AUICXH**	30P	0.75	23.2	1574
EN30P10AUICXH**	30P	1	22.6	1877
EN30P15AUICXH**	30P	1.5	30.3	2738

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. EN02P05AUICXH BK = 0.5mm<sup>2</sup> Black

## COLOUR CODES

COLOUR	Blue	Black
CODE	BU	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
0.5	115	>10	25
0.75	115	>10	25
1	115	>10	25
1.5	120	>10	40
2.5	120	>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.