

EN 50288-7 - RE-2X(st)H 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.). 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
0.5mm² - 0.75mm²: Class 5 flexible copper conductor
1mm² and above: Class 2 stranded copper conductor

Insulation
XLPE (Cross-Linked Polyethylene)

Collective Screen
Al/PET (Aluminium/Polyester Tape)

Drain Wire
Tinned copper

Sheath
LSH (Low Smoke Zero Halogen) or available in PVC (Polyvinyl Chloride)

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,

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™.



IRM 634267





DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm
EN01P05AUUCXH**	1P	0.5	4.6
EN01P07AUUCXH**	1P	0.75	4.6
EN01P10AUUCXH**	1P	1	5
EN01P15AUUCXH**	1P	1.5	6.4
EN01T05AUUCXH**	1T	0.5	4.8
EN01T07AUUCXH**	1T	0.75	5.4
EN01T10AUUCXH**	1T	1	5.3
EN01T15AUUCXH**	1T	1.5	6.7
EN02P05AUUCXH**	2P(Q)	0.5	6.7
EN02P07AUUCXH**	2P(Q)	0.75	7.6
EN02P10AUUCXH**	2P(Q)	1	7.5
EN02P15AUUCXH**	2P(Q)	1.5	9.7
EN05P05AUUCXH**	5P	0.5	8.6
EN05P07AUUCXH**	5P	0.75	9.8
EN05P10AUUCXH**	5P	1	9.5
EN05P15AUUCXH**	5P	1.5	12.6
EN10P05AUUCXH**	10P	0.5	11.9
EN10P07AUUCXH**	10P	0.75	13.7
EN10P10AUUCXH**	10P	1	13.4
EN10P15AUUCXH**	10P	1.5	17.9
EN15P05AUUCXH**	15P	0.5	13.8
EN15P07AUUCXH**	15P	0.75	15.9
EN15P10AUUCXH**	15P	1	15.5
EN15P15AUUCXH**	15P	1.5	20.8
EN20P05AUUCXH**	20P	0.5	15.5
EN20P07AUUCXH**	20P	0.75	17.9
EN20P10AUUCXH**	20P	1	17.4
EN20P15AUUCXH**	20P	1.5	23.5

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. EN01P05AUUCXHBK = 0.5mm² Black

COLOUR CODES

COLOUR	Blue	Black
CODE	BL	BK



CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	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 ²	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.