



EN 50288-7 - RE-2X(st)H SWAH 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 to prevent cross-talk within cable. 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
0.5mm² - 0.75mm²: Class 5 flexible copper conductor
1mm² and above: Class 2 stranded copper conductor

Insulation
XLPE (Cross-Linked Polyethylene)

Individual and 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.



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™.





DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm
EN02P05AWICXH**	2P	0.5	11.9
EN02P07AWICXH**	2P	0.75	12.9
EN02P10AWICXH**	2P	1	12.7
EN02P15AWICXH**	2P	1.5	15.2
EN01T05AWICXH**	1T	0.5	12.3
EN01T07AWICXH**	1T	0.75	13.4
EN01T10AWICXH**	1T	1	13.2
EN01T15AWICXH**	1T	1.5	15.9
EN05P05AWICXH**	5P	0.5	14
EN05P07AWICXH**	5P	0.75	15.4
EN05P10AWICXH**	5P	1	15.1
EN05P15AWICXH**	5P	1.5	18.5
EN10P05AWICXH**	10P	0.5	18
EN10P07AWICXH**	10P	0.75	20.6
EN10P10AWICXH**	10P	1	22
EN10P15AWICXH**	10P	1.5	26.1
EN15P05AWICXH**	15P	0.5	20.7
EN15P07AWICXH**	15P	0.75	23.1
EN15P10AWICXH**	15P	1	22.6
EN15P15AWICXH**	15P	1.5	29.5
EN20P05AWICXH**	20P	0.5	22.9
EN20P07AWICXH**	20P	0.75	26.3
EN20P10AWICXH**	20P	1	25.8
EN20P15AWICXH**	20P	1.5	33.5
EN30P05AWICXH**	30P	0.5	26.8
EN30P07AWICXH**	30P	0.75	30.1
EN30P10AWICXH**	30P	1	29.4
EN30P15AWICXH**	30P	1.5	38.4

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. EN02P05AWICXHBK = 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
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.