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

APPLICATION
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.

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)

Sheath
LSZH (Low Smoke Zero Halogen)

Note
500V rated cables available on request

CHARACTERISTICS
Voltage Rating
300V

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

Minimum Bending Radius
Fixed: 12 x overall diameter

Core Identification
Pairs: White ● Black numbered
Triples: White White White

Sheath Colour
Blue ● Black

DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF PAIRS/TRIPLES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>NOMINAL OUTER DIAMETER mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN02P05AWICXH**</td>
<td>2P</td>
<td>0.5</td>
<td>11.9</td>
</tr>
<tr>
<td>EN02P07AWICXH**</td>
<td>2P</td>
<td>0.75</td>
<td>12.9</td>
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<td>EN02P15AWICXH**</td>
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<td>15.2</td>
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<tr>
<td>EN01T05AWICXH**</td>
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<td>13.4</td>
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<tr>
<td>EN01T10AWICXH**</td>
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<td>13.2</td>
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</table>
**Technical Specification**

**ELAND PART NO.** | **NO. OF PAIRS/TRIPLES** | **NOMINAL CROSS SECTIONAL AREA mm²** | **NOMINAL OUTER DIAMETER mm**
--- | --- | --- | ---
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
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

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**CORE IDENTIFICATION**

<table>
<thead>
<tr>
<th>COLOUR</th>
<th>Blue</th>
<th>Black</th>
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<tbody>
<tr>
<td>CODE</td>
<td>BL</td>
<td>BK</td>
</tr>
</tbody>
</table>

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**CONDUCTORS**

| NOMINAL CROSS SECTIONAL AREA mm² | 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 |

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**ELECTRICAL CHARACTERISTICS**

<table>
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<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>MUTUAL CAPACITANCE pF/m</th>
<th>MINIMUM INSULATION RESISTANCE AT 20°C Gohms/km</th>
<th>MAXIMUM L/R RATIO μH/ohms</th>
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<tr>
<td>0.5</td>
<td>250</td>
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<td>25</td>
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<tr>
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</tr>
<tr>
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