



# TCu/MGT/EPR/IS/ZH/GSWB/ZH 150/250V Cable



Eland Product Group: ASH

## APPLICATION

Fire resistant cables for fixed wiring in ships and on mobile and fixed offshore units.

## CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U  
150/250V

**Test Voltage**  
1.5kV

**Temperature Rating**  
-40°C to +90°C

**Minimum Bending Radius**  
10 x overall diameter

## CONSTRUCTION

**Conductor**  
0.75mm<sup>2</sup> to 1.5mm<sup>2</sup>: Class 5 flexible tinned copper conductor  
2.5mm<sup>2</sup> and above: Class 2 stranded tinned copper conductor

**Separator**  
Mica glass tape

**Insulation**  
Halogen free EPR (Ethylene Propylene Rubber)

**Screen**  
Individual aluminium polyester tape

**Bedding**  
Halogen free elastomer EPR (Ethylene Propylene Rubber)

**Armour**  
GSWB (Galvanized Steel Wire Braid)

**Sheath**  
Halogen free heat resistant, oil resisting and flame retardant elastomer compound

**Core Identification**  
● Black ○ White with printed numbers of pairs

**Sheath Colour**  
● Grey ● Blue

## STANDARDS

BS 7917, IEC/EN 60331-21,

Flame Retardant according to IEC/EN 60332-3-22,  
IEC/EN 60332-1-2  
Halogen Free according to IEC/EN 60754-1/2



## THE CABLE LAB<sup>®</sup>

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](http://www.elandcables.com/company/about-us/esg-sustainability)



SCIENCE  
BASED  
TARGETS

**BUSINESS  
AMBITION FOR 1.5°C**



## REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab<sup>®</sup>.





## DIMENSIONS

| ELAND PART NO. | NO. OF CORES | CONDUCTOR CLASS | NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | NOMINAL OVERALL DIAMETER<br>mm | NOMINAL WEIGHT<br>kg/km |
|----------------|--------------|-----------------|-------------------------------------------------|--------------------------------|-------------------------|
| ASHIS0175GSWB* | 1P           | 5               | 0.75                                            | 12.9                           | 221                     |
| ASHIS0110GSWB* | 1P           | 5               | 1                                               | 13.1                           | 225                     |
| ASHIS0115GSWB* | 1P           | 5               | 1.5                                             | 14.6                           | 279                     |
| ASHIS0125GSWB* | 1P           | 5               | 2.5                                             | 15.7                           | 332                     |
| ASHIS0275GSWB* | 2P           | 5               | 0.75                                            | 14.9                           | 333                     |
| ASHIS0210GSWB* | 2P           | 5               | 1                                               | 15.1                           | 349                     |
| ASHIS0215GSWB* | 2P           | 5               | 1.5                                             | 16.3                           | 404                     |
| ASHIS0375GSWB* | 3P           | 5               | 0.75                                            | 19.1                           | 433                     |
| ASHIS0310GSWB* | 3P           | 5               | 1                                               | 19.6                           | 453                     |
| ASHIS0315GSWB* | 3P           | 5               | 1.5                                             | 21                             | 522                     |
| ASHIS0325GSWB* | 3P           | 5               | 2.5                                             | 23                             | 692                     |
| ASHIS0775GSWB* | 7P           | 5               | 0.75                                            | 24.9                           | 740                     |
| ASHIS0710GSWB* | 7P           | 5               | 1                                               | 25.3                           | 759                     |
| ASHIS0715GSWB* | 7P           | 5               | 1.5                                             | 26.9                           | 866                     |
| ASHIS1275GSWB* | 12P          | 5               | 0.75                                            | 31.3                           | 1129                    |
| ASHIS1210GSWB* | 12P          | 5               | 1                                               | 32.9                           | 1296                    |
| ASHIS1215GSWB* | 12P          | 5               | 1.5                                             | 35                             | 1475                    |
| ASHIS2075GSWB* | 20P          | 5               | 0.75                                            | 39.8                           | 1765                    |
| ASHIS2010GSWB* | 20P          | 5               | 1                                               | 40.8                           | 1920                    |
| ASHIS2015GSWB* | 20P          | 5               | 1.5                                             | 43.1                           | 2155                    |
| ASHIS1T75GSWB* | 1T           | 5               | 0.75                                            | 13.4                           | 248                     |
| ASHIS1T10GSWB* | 1T           | 5               | 1                                               | 13.8                           | 266                     |
| ASHIS1T15GSWB* | 1T           | 5               | 1.5                                             | 15.2                           | 314                     |
| ASHIS1T25GSWB* | 1T           | 5               | 2.5                                             | 16.8                           | 394                     |
| ASHIS1Q75GSWB* | 1Q           | 5               | 0.75                                            | 14.5                           | 291                     |
| ASHIS1Q10GSWB* | 1Q           | 5               | 1                                               | 14.8                           | 307                     |
| ASHIS1Q15GSWB* | 1Q           | 5               | 1.5                                             | 16.1                           | 359                     |
| ASHIS1Q25GSWB* | 1Q           | 5               | 2.5                                             | 17.9                           | 445                     |

P = Pairs

Q = Quad

T = Triple

\*Eland Part No. shown above designate the gland colour (\*). For each colour substitute \* for a colour code as listed below. e.g. A5HIS0175GSWBGR = 0.75mm<sup>2</sup> Grey

## COLOUR CODES

| COLOUR | Grey | Blue |
|--------|------|------|
| CODE   | GR   | BL   |

## CONDUCTORS

### Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

| NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | MAXIMUM DIAMETER OF WIRES<br>IN CONDUCTOR<br>mm | MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C<br>ohms/km |
|-------------------------------------------------|-------------------------------------------------|----------------------------------------------------|
|                                                 |                                                 | Metal-Coated Wires                                 |
| 0.75                                            | 0.21                                            | 26.7                                               |
| 1                                               | 0.21                                            | 20                                                 |
| 1.5                                             | 0.26                                            | 13.7                                               |
| 2.5                                             | 0.26                                            | 8.21                                               |



## Class 2 Stranded Copper Conductors for Single Core and Multi-Core Cables

| NOMINAL CROSS<br>SECTIONAL AREA<br>mm <sup>2</sup> | MINIMUM NO. OF WIRES IN CONDUCTOR<br>mm |                    |        | MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C<br>ohms/km |
|----------------------------------------------------|-----------------------------------------|--------------------|--------|----------------------------------------------------|
|                                                    | Circular                                | Circular Compacted | Shaped | Annealed Copper Conductor                          |
|                                                    | Cu                                      |                    |        | Metal-Coated Wires                                 |
| 2.5                                                | 7                                       | 6                  | -      | 7.56                                               |

## ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS<br>SECTIONAL AREA<br>mm <sup>2</sup> | MAXIMUM INSULATION<br>RESISTANCE AT 20°C | INDUCTANCE<br>mH/km | CAPACITANCE<br>pf/m | L/R RATIO AT 1KHZ<br>μh/ohms |
|----------------------------------------------------|------------------------------------------|---------------------|---------------------|------------------------------|
| 0.75                                               | 930                                      | 0.75                | 130                 | 25                           |
| 1                                                  | 827                                      | 0.73                | 140                 | 25                           |
| 1.5                                                | 729                                      | 0.68                | 160                 | 40                           |

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.