(N)TSCGECECWÖU 3.6/6kV and 6/10kV Cable

Eland Product Group: A7H

APPLICATION
Flexible cable suitable for reeling drums of tunnel boring machines and generally for tunnel applications. Suitable for indoor and outdoor applications.

CHARACTERISTICS
Voltage Rating (Uo/U) 3.6/6kV; 6/10kV
Test Voltage 3.6/6kV: 11kV; 6/10kV: 17kV
Ambient Temperature Fixed: -40°C to +80°C
Flexed: -25°C to +80°C
Maximum Short Circuit Temperature +250°C
Minimum Bending Radius Fixed: 6 x overall diameter
Flexed: 10 x overall diameter
Maximum Torsional Stress ±25°/m

CONSTRUCTION
Phase Conductor
Class 5 tinned copper conductor
Insulation
Rubber compound Type 3GI3
Semi-Conductive Layers
Semi-conductive tape over the conductor and inner and outer semi-conductive rubber layer on the insulation
Protective Earth Conductor
Individual copper wire screen
Control Conductor
Class 5 tinned copper conductor
Central Filler
Semi-conductive compound on a textile polyester support
Inner Sheath
Rubber compound Type 5GM5
Monitoring Conductor
Copper wire screen over the inner sheath
Outer Sheath
Rubber compound Type 5GM5
Sheath Colour
- Red

STANDARDS
VDE 0250 Part 813, VDE 0295 (IEC 60228)
Flame Retardant according to BS EN/IEC 60332-1-2

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.

REGULATORY COMPLIANCE
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

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>VOLTAGE (kV)</th>
<th>NO. OF CORES (PHASE + EARTH +CONTROL+ÜL)</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>NOMINAL WEIGHT kg/km</th>
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### Electrical Characteristics

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<tr>
<th>NOMINAL CROSS SECTIONAL AREA OF PHASE CONDUCTOR mm²</th>
<th>MAXIMUM TENSILE LOAD N</th>
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### Current Carrying Capacity

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<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>LAYING ON THE FLOOR Amps</th>
<th>FREE IN AIR Amps</th>
<th>REELED Amps</th>
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Ambient temperature of 30°C
### VOLTAGE DROP

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<th>POWER FACTOR</th>
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<td>0.51</td>
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<td>95</td>
<td>0.41</td>
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<td>0.34</td>
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### DE-RATING FACTORS

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<tr>
<th>AMBIENT TEMPERATURE</th>
<th>10°C</th>
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<th>25°C</th>
<th>30°C</th>
<th>35°C</th>
<th>40°C</th>
<th>45°C</th>
<th>50°C</th>
<th>55°C</th>
<th>60°C</th>
<th>65°C</th>
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<tbody>
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<td>DE-RATING FACTOR</td>
<td>1.15</td>
<td>1.12</td>
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<td>1.04</td>
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<td>0.65</td>
<td>0.58</td>
<td>0.50</td>
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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.