107mm² Copper Tin Contact Wire

Eland Product Group: 91

APPLICATION
Copper tin contact wire provides direct contact to pantograph transmitting power from the overhead line system to the locomotive. The copper tin contact wire will be suspended from catenary wires via drop wires.

CONSTRUCTION

Drawing Number
1/148/438/A3

Material
Copper tin (CuSn-0.4%)

CABLE STANDARDS

BS EN 50149 to AC-107

The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

DIMENSIONS

<table>
<thead>
<tr>
<th>NETWORK RAIL PART NO. / PADS</th>
<th>ELAND PART NO.</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>MINIMUM TENSILE STRENGTH Rₚ₉₀ N/mm²</th>
<th>MINIMUM BREAKING LOAD Fₚ₉₀ kN</th>
<th>MINIMUM ELONGATION AT BREAK A₂₀₀ %</th>
<th>MINIMUM ELECTRICAL CONDUCTIVITY AT 20°C m/ohms/mm²</th>
<th>MINIMUM ELECTRICAL CONDUCTIVITY AT 20°C % IACS</th>
<th>MAXIMUM ELECTRICAL RESISTANCE R ohms/km</th>
<th>NOMINAL WEIGHT kg/km</th>
</tr>
</thead>
<tbody>
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<td>107</td>
<td>430</td>
<td>44.6</td>
<td>3</td>
<td>46.4</td>
<td>80</td>
<td>0.2076</td>
<td>952</td>
</tr>
</tbody>
</table>

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.