GKW-RW 300/500V Thin Wall Single Core

**Applications**

Single core power and control cable designed for protected, fixed installation inside and outside railway vehicles for connecting fixed and moving parts in direct current and alternating voltage technology, especially converter technology.

**Standard**

- BS 6853 -la
- DIN 5510-2 1-4
- NFF 16-101 F0

**Construction**

- **Conductors**: Circular Class 5 stranded tinned copper to IEC60228/VDE 0295.
- **Insulation**: Electron beam crosslinkable LSZH compound.

**Electrical Characteristics at 20°C**

<table>
<thead>
<tr>
<th>Nominal Conductor Cross Section</th>
<th>mm²</th>
<th>0.5</th>
<th>0.75</th>
<th>1</th>
<th>1.5</th>
<th>2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Conductor Resistance</td>
<td>Ω/km</td>
<td>40.1</td>
<td>26.7</td>
<td>20.0</td>
<td>13.7</td>
<td>8.21</td>
</tr>
<tr>
<td>Voltage Rating</td>
<td>KV</td>
<td></td>
<td></td>
<td></td>
<td>0.3/0.5</td>
<td></td>
</tr>
</tbody>
</table>

**Mechanical and Thermal Properties**

- Minimum Bending Radius: 4xOD (Static); 6xOD (Flexing)
- Temperature Range: -40°C ~+120°C (Static); -35°C ~+90°C (Flexing)
- Short Circuit Temperature: +280°C
### Dimensions and Weight

<table>
<thead>
<tr>
<th>No. of cores &amp; Nominal Conductor Cross Sectional Area No.×mm²</th>
<th>Number and Nominal Diameter of Strands No/mm</th>
<th>Nominal Insulation Thickness mm</th>
<th>Nominal Overall Diameter mm</th>
<th>Nominal Weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>1×0.5</td>
<td>16/0.20</td>
<td>0.18</td>
<td>1.3</td>
<td>6</td>
</tr>
<tr>
<td>1×0.75</td>
<td>24/0.20</td>
<td>0.18</td>
<td>1.56</td>
<td>9</td>
</tr>
<tr>
<td>1×1.0</td>
<td>32/0.20</td>
<td>0.18</td>
<td>1.7</td>
<td>12</td>
</tr>
<tr>
<td>1×1.5</td>
<td>30/0.25</td>
<td>0.22</td>
<td>2.04</td>
<td>17</td>
</tr>
<tr>
<td>1×2.5</td>
<td>50/0.25</td>
<td>0.28</td>
<td>2.66</td>
<td>27</td>
</tr>
</tbody>
</table>

**Features**

- Impact Resistant
- Highly Flexible
- Cold Resistant
- Soldering Heat Resistant
- IRM 903 Fuel Oil Resistant
- IRM 902 Mineral Oil Resistant
- UV Resistant
- Ozone Resistant
- Acid and Alkali Resistant
- Fire Retardant NF C32-070-2.2(C1) IEC 60332-3-EN50266
- Flame Retardant NF C32-070-2.1(C2) IEC 60332-1-EN50353-2.1
- Low Corrosivity EN 50267-2-2NF C32-074 IEC 60754-3NF C20-453
- Low Toxicity
- Low Smoke Emission IEC 61034NF C20-902 EN 50268NF C32-073
- Zero Halogen IEC 60754-1NF C20-454 EN 50267-2-1
- Zero Corrosivity
- Cold Resistant