G7621 Trackside Communications Cables

️ **Applications**

The cables are designed for installation in trackside bracket runs and for use in open locations (type1) or in tunnels or underground locations (type2).

️ **Standards**

- LUL Spec G7621 A2 type 1 (for PVC sheath)
- LUL Spec G7621 A2 type 2 (for LSZH sheath)

️ **Construction**

- Conductors: Solid plain copper, 0.63/0.9 mm nominal diameter.
- Insulation: Cellular polyethylene.
- Cabling Element: Two insulated conductors are twisted together to form a pair.
- Core Wrapping: Non-hygroscopic plastic tape with overlapping.
- Outer Sheath: PVC/LSZH sheath, coloured violet.

️ **Core Identification**

1 Pair Cable: Blue/White
3 Pair Cable: Blue/White Orange/White Green/White

️ **Electrical Characteristics at 20°C**

<table>
<thead>
<tr>
<th>Nominal Conductor Diameter</th>
<th>mm</th>
<th>0.63</th>
<th>0.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Conductor Resistance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Value</td>
<td>Ω/km</td>
<td>57.5</td>
<td>28</td>
</tr>
<tr>
<td>Individual Value</td>
<td>Ω/km</td>
<td>59</td>
<td>29</td>
</tr>
<tr>
<td>Minimum Insulation Resistance @500 V DC</td>
<td>MΩ/km</td>
<td>1500</td>
<td>1500</td>
</tr>
<tr>
<td>Maximum Average Mutual Capacitance</td>
<td>nF/km</td>
<td>59</td>
<td>59</td>
</tr>
<tr>
<td>Maximum Average Capacitance Unbalance</td>
<td>pF/460m</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Pair to Pair</td>
<td>pF/460m</td>
<td>1200</td>
<td>1200</td>
</tr>
</tbody>
</table>

️ **Mechanical and Thermal Properties**

- Minimum Bending Radius: 7.5×OD
- Temperature Range: -30°C to +70°C (during operation); -10°C to +55°C (during installation)
## Dimensions and Weight

<table>
<thead>
<tr>
<th>Cable Code</th>
<th>No. of pairs</th>
<th>Nominal Thickness of Sheath mm</th>
<th>Nominal Overall Diameter mm</th>
<th>Nominal Weight kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS7621A2/T1-02YY-1P0.63</td>
<td>1</td>
<td>2.5</td>
<td>7.0</td>
<td>60</td>
</tr>
<tr>
<td>RS7621A2/T1-02YY-3P0.63</td>
<td>3</td>
<td>2.5</td>
<td>9.0</td>
<td>90</td>
</tr>
<tr>
<td>RS7621A2/T1-02YY-1P0.9</td>
<td>1</td>
<td>2.5</td>
<td>8.0</td>
<td>70</td>
</tr>
<tr>
<td>RS7621A2/T1-02YY-3P0.9</td>
<td>3</td>
<td>2.5</td>
<td>10.0</td>
<td>120</td>
</tr>
</tbody>
</table>

- **0.63mm Conductor, 1.15mm Insulated Wire**
- **0.9mm Conductor, 1.5mm Insulated Wire**

### Characteristics

- **Flame Retardant**
  - NF C32-070-2.1(C2)
  - IEC 60332-1/EN 50265-2-1

- **Mineral Oil Resistant**
- **Rated voltage Buried in Ground**
- **Laid In Ducts**

- **PVC Sheath**
- **Flame Retardant**
  - NF C32-070-2.1(C2)
  - IEC 60332-1/EN 50265-2-1

- **LSZH Sheath**
  - **Flame Retardant**
    - NF C32-070-2.1(C2)
    - IEC 60332-1/EN 50265-2-1
  - **Fire Retardant**
    - NF C32-070-2.2(C1)
    - IEC 60332-3/EN 50266
  - **Zero Halogen**
    - IEC 60754-1/NF C20-454
    - EN 50267-2-1
  - **Low Smoke Emission**
    - IEC 61034/NF C20-902
    - EN 50268/NF C32-073
    - EN 50267-2-2/NF C32-074
    - IEC 60754-2/NF C20-453
  - **Low Corrosivity**
  - **Low Toxicity**