The AA3233-003 Subway Antenna is a rugged 915 MHz antenna specifically designed for the rail industry. The antenna is designed for mounting between track rails. The antenna's optimal performance is achieved when used with a TransCore AT5000-series transportation tag mounted to the underside of rail vehicles. The AA3233-003 operates with a TransCore radio frequency (RF) module.

The AA3233-003 is provided with all-weather isolators that dampen shock and vibration. The design features a heavy aluminum back plate and a watertight conduit junction box.

The AA3233-003 has a read pattern that is designed to read an AT5000-series transportation tag at close distances of 45 cm to 90 cm (17.7 in. to 35.4 in.) and at high speeds of 120 km/hr (74.56 mph).

The AA3233-003 is provided with mounting hardware and a full-size mounting template. The installation guide, available at transcore.com, includes detailed installation instructions.
### AA3233-003 Subway Antenna

**Communications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>902 to 928 MHz</td>
</tr>
<tr>
<td>Gain (peak, near field)</td>
<td>10 dBi</td>
</tr>
</tbody>
</table>

**Hardware Features**

- **Connector**: N-type female and jam nut connectors inside waterproof box
- **Physical**
  - **Antenna Dimensions**
    - **Size**: 26.9 x 4.9 x 11.25 in. (68.8 x 12.5 x 28.8 cm)
    - **Overall Length**: 34 in. (85.4 cm)
  - **Junction Box Dimensions**
    - **Size**: 6.1 x 5.3 x 2.2 in. (15.5 x 13.5 x 5.6 cm)
    - **Size does not include mounting flange**

**Environmental**

- **Operating Air Temperature**: -40°F to +167°F (-40°C to +75°C)
- **Humidity**: 100% condensing
- **Vibration Tolerance**: 4 Grms, 5 to 1500 Hz, flat random spectrum
- **Shock Tolerance**: 10 G zero to peak x 7 ms
  Isolated from 100 G, high-frequency, wheel shocks

**Enclosure**

- Weatherproof radome

**Antenna Field Patterns**

For more information:
Call **800.923.4824** (Sales Support)  **505.856.8007** (Technical Support)

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