**100 Ω, 28 AWG SHIELDED TWISTED PAIR**

**TPS-28100-RF**

**PERFORMANCE DATA**

- **Capacitance:** 13.6 pF/ft (nominal)
- **Skew:** 20 ps/m within pair MAX
- **Propagation Delay:** 1.40 ns/foot
- **Flex Cycles:** 300,000 cycles
- **Current Rating:** Single conductor = 4.1 Amps
  - 2 conductors = 2.8 Amps
- **Shield DCR:** 8.8 Ω/1000 ft
- **CC DCR:** 68.6 Ω/1000 ft
- **Min. Bend Radius:** .750"
- **Availability:** Single
- **Temperature Rating:** -20 °C to 105 °C
- **DWV Working Voltage:** 333 V

**Insertion Loss**

<table>
<thead>
<tr>
<th>Distance</th>
<th>0.25 m</th>
<th>1 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>-3 dB</td>
<td>9.7 GHz</td>
<td>3.3 GHz</td>
</tr>
<tr>
<td>-7 dB</td>
<td>&gt;20 GHz</td>
<td>9.2 GHz</td>
</tr>
</tbody>
</table>

* Test Conditions – 8 oz. weight, dia 7/8" mandrel, +/-90 bend x2
** Rating – 30 °C Temperature Rise, 20% de-rated.
***Test Conditions – Heat Shock/Cold Bend per UL #1581-540 and #1581-580, wire wrap 1/4" mandrel, visual inspection
†Test Conditions – IR/DWV/Thermal Shock/Humidity per EIA-364-20, 21, 31 and 32

**INSERTION LOSS AND RETURN LOSS GRAPHS‡**

*IL and RL data are typical. Results may vary.