

QZ800

Ultra-Flexible

Features:

- * Ultra-Flexible
- * Corrosion Resistance

Applications:

- * Phased-array Radar
- * Laboratory Test
- * Small & Complicated Interconnection Occasion

Electrical

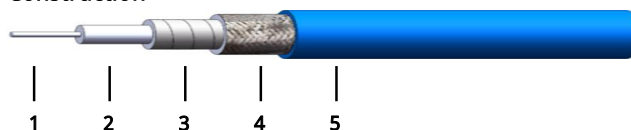
| | |
|--------------------------|-----------|
| Frequency: | DC~18GHz |
| Cut-off Frequency: | 20GHz |
| Impedance: | 50Ω |
| Velocity of Propagation: | 76% |
| Shielding Effectiveness: | 90dB min. |
| Voltage Withstand: | 1700V DC |

Mechanical

| | |
|-----------------------------|--------|
| Bend Radius (installation): | 40.0mm |
| Bend Radius (repeated): | 80.0mm |
| Weight: | 130g/m |

Environmental

| | |
|--------------|-----------|
| Temperature: | -55~+85°C |
|--------------|-----------|

Construction


| No. | Name | Size (mm) | Material |
|-----|-----------------|-----------|-------------------------------|
| 1 | Inner Conductor | 1.88 | Stranded Silver-plated copper |
| 2 | Dielectric | 5.50 | Low density PTFE |
| 3 | Inner Shield | 5.74 | Silver-plated copper tape |
| 4 | Outer Shield | 6.31 | Silver-plated copper braid |
| 5 | Jacket | 8.00 | PUR |

Attenuation & Power Handling

| | 0.3 | 0.5 | 1 | 3 | 6 | 8 | 10 | 12.4 | 18 |
|-------------------------|-----|------|------|------|------|------|------|------|-------|
| Frequency (GHz) | | | | | | | | | |
| Attenuation*1 (dB/100m) | 9.5 | 12.5 | 18.2 | 33.8 | 50.9 | 60.7 | 69.8 | 80.0 | 101.9 |
| Average Power*2 (W) | 626 | 477 | 327 | 176 | 117 | 98 | 85 | 74 | 58 |

[1] VSWR:1.0; Ambient: +25°C (77°F)

[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level

Calculate Cable Attenuation: Attenuation (dB/100m) = $0.517315 * \sqrt{F} (\text{MHz}) + 0.001806 * F (\text{MHz})$

Calculate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F} (\text{GHz})$

How To Order
QZ800-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a QZ800 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify QZ800-18-SSF-0.5.

Connector naming rules:

S - SMA (18GHz, VSWR 1.25)

N - N (18GHz, VSWR 1.25)

T - TNC (18GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

Right Angle - Add 'R' after connector name (VSWR increase 0.1)