

QD141

Hand Formable

Features:

- * Hand formable
- * Quick and easy assembly

Applications:

- * Instrumentation
- * Laboratory test
- * Interconnection

Electrical

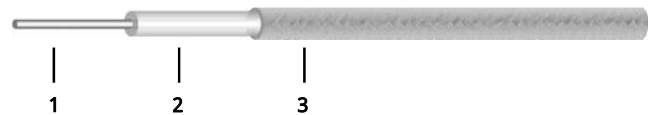
| | |
|--------------------------|------------|
| Frequency: | DC-6GHz |
| Cut-off Frequency: | 34.4GHz |
| Impedance: | 50Ω |
| Velocity of Propagation: | 70% |
| Shielding Effectiveness: | 100dB min. |
| Voltage Withstand: | 1500V DC |

Mechanical

| | |
|-----------------------------|---------|
| Bend Radius (installation): | 17.75mm |
| Bend Radius (repeated): | 35.5mm |
| Weight: | 50g/m |

Environmental

| | |
|--------------|------------|
| Temperature: | -55~+150°C |
|--------------|------------|

Construction


| No. | Name | Size (mm) | Material |
|-----|-----------------|-----------|-------------------------|
| 1 | Inner Conductor | 0.94 | Silver-plated copper |
| 2 | Dielectric | 2.98 | PTFE |
| 3 | Inner Shield | 3.55 | Tin-plated copper braid |

Attenuation & Power Handling

| Frequency (GHz) | 0.03 | 0.05 | 0.1 | 0.3 | 0.5 | 0.9 | 1 | 2 | 3 | 4 | 6 |
|-------------------------|------|------|------|------|------|------|------|------|------|------|-------|
| Attenuation*1 (dB/100m) | 6.3 | 8.1 | 11.6 | 20.6 | 27.0 | 37.2 | 39.4 | 58.1 | 73.3 | 86.8 | 110.7 |
| Average Power*2 (W) | 1026 | 790 | 553 | 311 | 237 | 172 | 163 | 110 | 87 | 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) = $1.119870 * \sqrt{F} \text{ (MHz)} + 0.003986 * F \text{ (MHz)}$

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

How To Order
QD141-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a QD141 cable assembly, DC-4GHz, SMA male to SMA female, 0.5 meter, specify QD141-4-SSF-0.5.

Connector naming rules:

3 - 3.5mm (6GHz, VSWR 1.2)

P - SMP (6GHz, VSWR 1.2)

A - SSMA (6GHz, VSWR 1.2)

S - SMA (6GHz, VSWR 1.2)

N - N (6GHz, VSWR 1.2)

X - MMCX (6GHz, VSWR 1.3)

M - MCX (6GHz, VSWR 1.3)

B - BNC (4GHz, VSWR 1.4)

D - SMB (4GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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