

QD141

Hand Formable

Features:

- * Hand formable
- * Quick and easy assembly

Applications:

- * Instrumentation
- * Laboratory test
- * Interconnection

Electrical

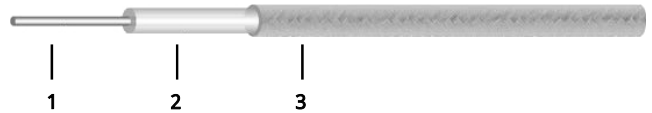
Frequency:	DC-6GHz
Cut-off Frequency:	34.4GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Shielding Effectiveness:	100dB min.
Voltage Withstand:	1500V DC

Mechanical

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

Environmental

Temperature:	-55~+150°C
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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 1.25)

D - SMB (4GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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

Mating Connector

QCK-MG-141-1

2.92mm male, Stainless steel



QCS-MG-141-3

SMA male, Stainless steel



QCS-MRB-141-4

SMA male, Right angle, Gold plated brass

QCS-MRG-141-3

SMA male, Right angle, Stainless steel

QCS-FB-141-1

SMA female, Gold plated brass



QCS-FL2B-141-1

SMA female, 2 - hole flange mount, Brass

QCS-FL4B-141-1

SMA female, 4- hole flange mount, Gold plated brass

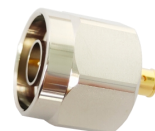


QCS-FHB-141-1

SMA female, Bulk head, Brass

QCN-MB-141-3

N male, Nickel plated brass



QCN-MRB-141-1

N male, Right angle, Nickel plated brass



QCN-MRB-141-2

N male, Right angle, Gold plated brass



QCN-FB-141-1

N female, Nickel plated brass



QCB-MB-141-1

BNC male, Ternary alloy plated brass

