

QE141

Low PIM

Features:
* Low PIM

Applications:
* Phased-array Radar
* Instrument
* Interconnection in and between equipment

Electrical

Frequency:	DC~26.5GHz
Cut-off Frequency:	34GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Shielding Effectiveness:	165dB min.
Voltage Withstand:	500V DC

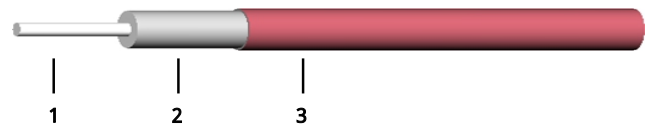
Mechanical

Bend Radius (installation):	15mm
Weight:	46g/m

Environmental

Temperature: -55~+125°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.94	Silver-plated copper
2	Dielectric	2.98	PTFE
3	Outer Conductor	3.58	Ternary alloy plated seamless copper tube

Attenuation & Power Handling

Frequency (GHz)	0.3	0.5	1	3	6	10	12.4	18	26.5
Attenuation* ¹ (dB/100m)	20.3	26.5	38.2	69.3	102.4	137.7	156.4	195.9	249.2
Average Power* ² (W)	1020	782	542	299	203	151	133	106	83

[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) = 1.131702 * √F (MHz) + 0.002450 * F (MHz)

Calculate Connector Attenuation: Attenuation (dB) = 0.03 * √F (GHz)

How To Order

QE141-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a QE141 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify QE141-18-SSF-0.5.

Connector naming rules:

3 - 3.5mm (26.5GHz, VSWR 1.3)

P - SMP (26.5GHz, VSWR 1.3)

A - SSMA (26.5GHz, VSWR 1.3)

S - SMA (26.5GHz, VSWR 1.3)

N - N (12GHz, 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)

匹配连接器

QCK-MG-141-1

2.92mm 公头, 不锈钢



QCS-MG-141-3

SMA 公头, 不锈钢



QCS-MRB-141-4

SMA 公头, 弯头, 黄铜镀金

QCS-MRG-141-3

SMA 公头, 弯头, 不锈钢

QCS-FB-141-1

SMA 母头, 黄铜镀金



QCS-FL2B-141-1

SMA 母头, 2孔法兰盘, 黄铜

QCS-FL4B-141-1

SMA 母头, 4孔法兰, 黄铜镀金



QCS-FHB-141-1

SMA 母头, 穿墙式, 黄铜

QCN-MB-141-3

N 公头, 黄铜镀镍



QCN-MRB-141-1

N 公头, 弯头, 黄铜镀镍



QCN-MRB-141-2

N 公头, 弯头, 黄铜镀金



QCN-FB-141-1

N 母头, 黄铜镀镍



QCB-MB-141-1

BNC 公头, 铜镀三元合金



QCN-MRB-141-1

N 公头, 弯头, 黄铜镀镍