

QR1000U

Low Loss, Ultra Flexible

Features:

- * Low Insertion Loss
- * High Weatherability
- * UV Resistant
- * Ultra Flexible

Applications:

- * Wireless Communication
- * Microwave Interconnect

Electrical

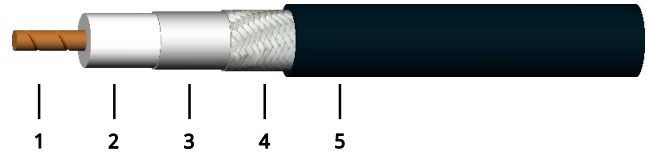
Frequency:	DC~5.8GHz
Cut-off Frequency:	16.2GHz
Impedance:	50Ω
Velocity of Propagation:	85%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	2500V DC

Mechanical

Bend Radius (installation):	25.0mm
Bend Radius (repeated):	100.0mm
Weight:	130g/m

Environmental

Temperature:	-40~+85°C
Outdoor Life:	20 years

Construction


No.	Name	Size (mm)	Material
1	Inner Conductor	2.74	Stranded Copper
2	Dielectric	7.24	Foam PE
3	Outer Conductor	7.39	Double-edged aluminum foil
4	Outer Shield	8.13	Tin-plated copper braid
5	Jacket	10.30	TPE

Attenuation & Power Handling

Frequency (GHz)	0.03	0.05	0.15	0.22	0.45	0.9	1.5	1.8	2	2.5	5.8
Attenuation* ¹ (dB/100m)	2.7	3.5	6.1	7.4	10.7	15.4	20.3	22.4	23.7	26.7	42.8
Average Power* ² (W)	2770	2140	1220	1000	690	480	360	330	310	280	170

[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) = $0.4822835 * \sqrt{F} \text{ (MHz)} + 0.0010499 * F \text{ (MHz)}$

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

How To Order
QR1000U-X-Y-Z

- X: Frequency in GHz
 Y: Connector type
 Z: Length in meters

Connector naming rules:

- N - N (6GHz, VSWR 1.35)
- T - TNC (6GHz, VSWR 1.35)

Examples:

To order a QR1000U cable assembly, DC-5.8GHz, N male, 1.5 meters, specify QR1000U-5.8-NN-1.5.

Female Connector - Add 'F' after connector name

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

Mating Connector

QCS-MCB-R1000-1

SMA male, Crimping type,
Ternary alloy plated brass
& Nickel plated brass

QCS-MRCB-R1000-1

SMA male, Right angle,
Crimping type, Ternary
alloy plated brass & Nickel
plated brass

QCN-MCB-R1000-1

N male, Crimping type,
Brass

QCN-FCB-R1000-1

N female, Crimping type,
Ternary alloy plated brass

