

# QR1500U

## Low Loss, Ultra Flexible

**Features:**

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

**Applications:**

- \* Wireless Communication
- \* Microwave Interconnect

**Electrical**

Frequency:	DC~2GHz
Cut-off Frequency:	10GHz
Impedance:	50Ω
Velocity of Propagation:	87%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	4000V DC

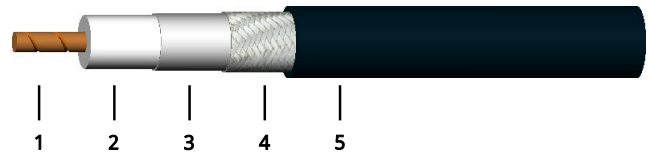
**Mechanical**

Bend Radius (installation):	40.0mm
Bend Radius (repeated):	80.0mm
Weight:	250g/m

**Environmental**

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

**Construction**



No.	Name	Size (mm)	Material
1	Inner Conductor	4.47	Stranded Copper
2	Dielectric	11.56	Foam PE
3	Outer Conductor	11.71	Double-edged aluminum foil
4	Outer Shield	12.45	Tin-plated copper braid
5	Jacket	15.00	TPE

**Attenuation & Power Handling**

Frequency (GHz)	0.03	0.05	0.15	0.22	0.45	0.9	1.5	1.8	2
Attenuation*1 (dB/100m)	1.7	2.2	3.8	4.6	6.8	9.8	13.1	14.5	15.4
Average Power*2 (W)	4590	3540	2010	1640	1130	770	580	530	500

[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) = 0.2974409 \* √F (MHz) + 0.0010236 \* F (MHz)

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

**How To Order**

**QR1500U-X-Y-Z**

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

**Examples:**

To order a QR1500U cable assembly, DC-2GHz, 7/16 DIN male, 1.5 meters, specify QR1500U-2-77-1.5.

**Connector naming rules:**

7 - 7/16 DIN (L29) (2GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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