Qualwave

Semiflex RF Cables & Assemblies

QD250
Hand Formable

Features:
* Hand formable
* Quick and easy assembly

Applications:
* Instrumentation
* Laboratory test
* Interconnection

Electrical

Frequency:	DC~6GHz
Cut-off Frequency:	19GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Shielding Effectiveness:	100dB min.
Voltage Withstand:	2500V DC

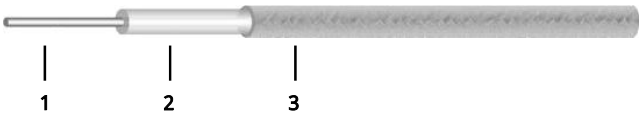
Mechanical

Bend Radius (installation):	20mm
Bend Radius (repeated):	40mm
Weight:	140g/m

Environmental

Temperature:	-55~+225℃

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.65	Silver-plated copper
2	Dielectric	5.25	PTFE
3	Inner Shield	6.30	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)	3.63	4.72	6.77	12.14	16.03	22.23	23.60	35.23	44.90	53.55	69.09
Average Power[*2] (W)	2382	1831	1277	713	540	389	367	246	193	162	125

[1] VSWR:1.0; Ambient: +25℃ (77℉)

[2] VSWR:1.0; Ambient: +40℃ (104℉); Sea level

Calcuate Cable Attenuation: Attenuation (dB/100m) = $0.645600 * \sqrt{F\ (MHz)} + 0.003180 * F\ (MHz)$)

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

How To Order

QD250-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a QD250 cable assembly, DC-6GHz, SMA male to SMA female, 0.5 meter, specify QD250-6-SSF-0.5.

Connector naming rules:

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)