

QB520

Stable Loss, VSWR, Phase vs Flexing

Features:

- * Low Insertion Loss
- * High Power
- * Low PIM

Applications:

- * Phased-array Radar
- * Satellite Communication
- * Avionics
- * Telecom

Electrical

Frequency:	DC~18GHz
Cut-off Frequency:	28GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1000V DC
PIM:	-155dBc

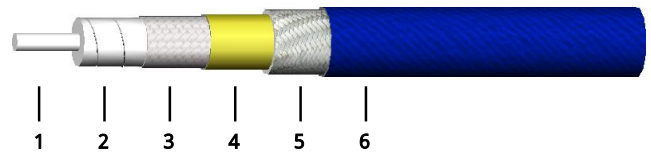
Mechanical

Bend Radius (installation):	26.0mm
Bend Radius (repeated):	52.0mm
Weight:	68g/m

Environmental

Temperature: -55~+200°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.29	Silver-plated copper
2	Dielectric	3.91	Low density PTFE
3	Inner Shield	4.15	Silver-plated copper tape
4	Interlayer	4.28	Aluminum tape
5	Outer Shield	4.79	Silver-plated copper braid
6	Jacket	5.20	FEP

Attenuation & Power Handling

Frequency (GHz)	0.1	0.3	0.5	1	2	4	6	8	12	18
Attenuation*1 (dB/100m)	8.7	15.1	19.5	27.7	39.5	56.6	69.9	81.4	100.9	125.5
Average Power*2 (W)	2407	1383	1068	750	526	367	297	255	206	165

[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) = 0.856234 * √F (MHz) + 0.000591 * F (MHz)

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

How To Order

QB520-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a QB520 cable assembly, DC-18GHz, N male to SMA female, 0.5 meter, specify QB520-18-SFN-0.5.

Connector naming rules:

S - SMA (18GHz, VSWR 1.25)

N - N (18GHz, VSWR 1.25)

T - TNC (18GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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