QB460

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:	35GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1000V DC
PIM:	-155dBc

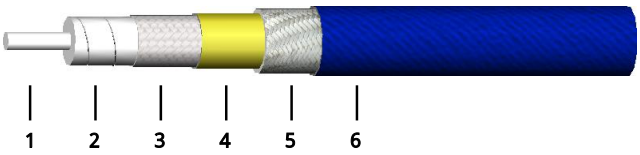
Mechanical

Bend Radius (installation):	23.0mm
Bend Radius (repeated):	46.0mm
Weight:	52g/m

Environmental

Temperature:	-55~+200℃

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.02	Silver-plated copper
2	Dielectric	3.07	Low density PTFE
3	Inner Shield	3.27	Silver-plated copper tape
4	Interlayer	3.43	Aluminum tape
5	Outer Shield	3.94	Silver-plated copper braid
6	Jacket	4.60	FEP

Attenuation & Power Handling

Frequency (GHz)	0.1	0.3	0.5	1	2	4	6	8	12	18
Attenuation[*1] (dB/100m)	11.1	19.3	24.9	35.4	50.4	72.0	88.8	103.2	127.7	158.4
Average Power[*2] (W)	1821	1047	809	569	400	280	227	195	158	127

[1] VSWR:1.0; Ambient: +25℃ (77℉)
[2] VSWR:1.0; Ambient: +40℃ (104℉); Sea level

How To Order

QB460-X-Y-Z

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

Examples:
To order a QB460 cable assembly, DC-18GHz, N male to SMA female, 0.5 meter, specify QB460-18-SFN-0.5.

Connector naming rules:
X - MMCX (40GHz, VSWR 1.35)
3 - 3.5mm (33GHz, VSWR 1.35)
S - SMA (26.5GHz, VSWR 1.3)
N - N (18GHz, VSWR 1.25)
T - TNC (18GHz, VSWR 1.2)
M - MCX (6GHz, VSWR 1.2)
B - BNC (4GHz, VSWR 1.25)

Female Connector - Add ‘F’ after connector name
Right Angle - Add ‘R’ after connector name (VSWR increase 0.1)