

QH120

Flexible, Alternate to semi-rigid cable

Features:

- * Phase Stability
- * Low PIM

Applications:

- * Phased-array Radar
- * Interconnection in and between equipment

Electrical

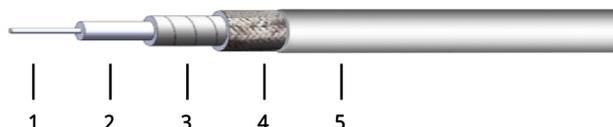
Frequency:	DC~18GHz
Cut-off Frequency:	156GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Shielding Effectiveness:	90dB
Voltage Withstand:	300V DC

Mechanical

Bend Radius (installation):	6mm
Bend Radius (repeated):	12mm
Weight:	3g/m

Environmental

Temperature:	-55~+125°C
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Construction


No.	Name	Size (mm)	Material
1	Inner Conductor	0.20±0.002	Silver plated copper nickel alloy
2	Dielectric	0.66±0.05	PTFE
3	Inner Shield	0.74±0.05	Silver-plated copper tape
4	Outer Shield	0.92±0.05	Silver-plated copper braid
5	Jacket	1.20±0.10	FEP

Attenuation & Power Handling

Frequency (GHz)	1	2	3	4	6	8	10	12.4	18
Attenuation*1 (dB/100m)	195.9	277.1	339.4	392.0	480.1	554.4	619.9	690.4	831.9
Average Power*2 (W)	40	28	23	20	16	14	13	11	9

[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) = $6.195210 * \sqrt{F \text{ (MHz)}} + 0.000039 * F \text{ (MHz)}$

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

How To Order
QH120-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a QH120 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify QH120-18-SSF-0.5.

Connector naming rules:

S - SMA

Female Connector - Add 'F' after connector name

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