

Wireline® 3dB Quadrature Hybrids



- Drop-in (consult for cut & trimmed and connectorized)
- Bendable / formable
- Low loss, low cost
- Aerospace and commercial heritage
- RoHS compliant (tin-plated and bare finishes only)

Electrical Specification

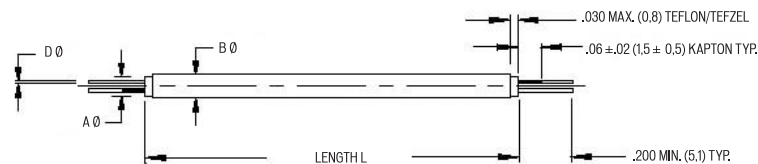
	BHC*1 HC*1	BJC*1 JC*1	BHC*2 HC*2	BJC*2 JC*2
Bandwidth Optimization	Narrow	Narrow	Octave	Octave
Coupling, Coupled Path (dB)	3.00 ± 0.25	3.00 ± 0.25	2.65 ± 0.25	3.65 ± 0.25
Unbalanced, Max. (dB), Coupled Path to Main Line	0.5	0.5	1.3	1.3
Insertion Loss Max. (dB)	0.3	0.3	0.3	0.3
Isolation, Min. (dB)	20	20	20	20
VSWR, Max.	1.2:1	1.2:1	1.2:1	1.2:1
Power, Average (W)	100	200	100	200
Power, Peak (kW)	2	2	2	2
Phase Quadrature Error, Max. (°)	±1	±1	±1	±1
Dielectric Breakdown, Min. (V RMS)	500	500	500	500

* Shield finish code - see Part Number Key on Website Datasheet

Electrical specifications summarized in the table above are determined by measurements at 300 MHz in a matched 50 ohm system and are independent of physical length and frequency with the exception of power. At jacket temperatures above 55°C, the power should be derated linearly to 50% at 105°C and to 0 at 155°C.

Mechanical Specification

Weight ounces (grams) per inch/mm	0.19 (.55)	0.40 (1.14)	0.19 (.55)	0.40 (1.14)
Bendable / Formable	Yes	Yes	Yes	Yes
Center Line Bend radius, Min.	.15 (3,8)	.30 (7,6)	.15 (3,8)	.30 (7,6)
Dimension "A" Inner Jacket Diameter	.086 (2,2)	.125 (3,2)	.086 (2,2)	.125 (3,2)
Dimension "B" Outer Shield Diameter	.105 (2,7)	.145 (3,7)	.105 (2,7)	.145 (3,7)
Dimension "D" Wire Diameter	.0124 (0,3)	.0201 (0,5)	.0124 (0,3)	.0201 (0,5)



All dimensions shown in decimal inches (mm). Specifications subject to change without notice. For mounting instructions, additional specifications or other products, visit us online or contact the factory.