

HF HIGH FREQUENCY COAX

LL Low Loss 26 GHz



Center Conductor: Solid silver plated copper
Dielectric: Expanded PTFE tape
Inner Braid: Flat silver plated copper strip
Interlayer: Aluminum polyester tape
Outer Braid: Round silver plated copper
Jacket: Translucent FEP

Operating temperature $-55 +200^{\circ}\text{C}$
Velocity of Propagation 80%-83%
Impedance 50 Ohms
Capacitance 25.0 pF/ft
Shielding Effectiveness $<-95\text{ dB}$

SB Strip Braid - 26 GHz



Center Conductor: Silver copper clad steel
Dielectric: Solid PTFE
Inner braid: Flat silver plated copper strip
Interlayer: Aluminum polyester tape
Outer braid: Round silver plated copper
Jacket: Clear FEP

Operating temperature: $-55 +200^{\circ}\text{C}$
Velocity of Propagation: 70%
Impedance: 50 Ohms
Capacitance: 29.4 pF/ft
Shielding Effectiveness: $<-95\text{ dB}$

SS Rock SStable® - 31 GHz and 40 GHz



Center conductor: Solid silver plated copper clad steel
Dielectric: Solid PTFE
Inner shield: Spiral strip of silver plated copper
Outer braid: Round silver plated copper
Jacket: Solid blue FEP

Operating temperature: $-55 +200^{\circ}\text{C}$
Velocity of Propagation: 70%
Impedance: 50 Ohms
Capacitance: 29.4 pF/ft
Shielding Effectiveness: $<-110\text{ dB}$

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Precision connectors designed specifically to mate with Harbour’s HF High Frequency

	LL142-26GHz	SB142-26GHz	SS402-31GHz	SS405-40GHz
Center conductor diameter	.051"	.037"	.037"	.0201"
Dielectric diameter	.145"	.117"	.117"	.064"
Diameter over inner braid	.152"	.127"	.125"	.071"
Diameter over interlayer	.158"	.133"	---	---
Diameter over outer braid	.178"	.153"	.138"	.084"
Overall diameter	.195"	.175"	.163"	.104"
Weight(lbs/mft)	44	34.5	32	14
Bend radius	1.0"	0.9"	0.8"	0.5"
Attenuation (dB/100ft) @	Typ	Typ	Typ	Typ
400 MHz	4.7	6.8	6.4	11.9
1 GHz	7.5	11.1	10.5	19.2
2 GHz	10.7	16.3	15.5	27.7
2.4 GHz	11.7	18.0	17.2	30.6
3 GHz	13.2	20.4	19.5	34.5
5 GHz	17.2	27.3	26.3	45.7
10 GHz	24.9	41.1	40.1	67.5
18 GHz	34.2	59.1	58.3	95.1
26 GHz	41.9	74.8	74.4	118.6
31 GHz	---	---	83.9	132.1
40 GHz	---	---	---	154.8
Guaranteed VSWR Performance	26 GHz	26 GHz	31 GHz	40 GHz

	LL142-26GHz	SB142-26GHz	SS402-31GHz	SS405-40GHz
2.4mm Plug				*
2.4mm Jack				*
2.4mm Bulkhead Jack				*
2.92mm Plug	*		*	*
2.92mm Jack			*	*
2.92mm Bulkhead Jack				*
3.5mm Plug			*	*
3.5mm Jack			*	
3.5mm Bulkhead Jack			*	
SMA Plug	*	*	*	*
SMA Jack	*			*
SMA Bulkhead Jack	*			
SMA Right Angle Plug	*		*	
SSMA Plug			*	*
SSMA Bulkhead Jack				*
TNCA Plug	*			
TNCA Bulkhead Jack	*			
TNCA Right Angle Plug	*			
N Plug	*	*	*	
N Bulkhead Jack	*			
N R/A Plug	*			

