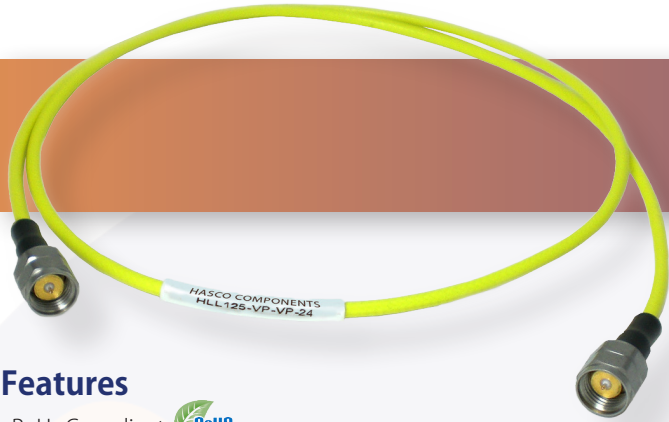


Part No:


HLL125-VP-VP-L



HLL125 Low Loss Flexible Cable Series with 1.85mm Male Connectors - 67 GHz



Features

- RoHS Compliant 
- Low Loss, Low VSWR, High Reliability
- Phase Stable vs. Flexure: $\pm 15^\circ$ @ 67 GHz
(When wrapped 360° around a 2" diameter mandrel)

The HASCO **HLL125** is a Low Loss Flexible Cable Series that is phase stable over temperature and phase stable vs. flexure. Available with 1.85mm Male connectors and rated to 67 GHz.

Electrical

• Impedance	50 Ω		
• Frequency Range	DC - 67 GHz		
• VSWR	1.35:1 Max		
• Insertion Loss	2.1 dB/ft @ 65 GHz + 0.4 dB per connector		
• Amplitude Stability	< ± 0.2 dB through 67 GHz		
• Time Delay	1.35 ns/ft		
• Velocity of Propagation	75%		
• Capacitance	25 pF/ft		
• Power CW	93 W @ 6 GHz	30 W @ 26.5 GHz	13 W @ 67 GHz
• Phase Stability vs. Flexure	$\pm 1.5^\circ$	$\pm 6.0^\circ$	$\pm 15.0^\circ$
• RF Leakage	> 100 dB @ 18 GHz		

Mechanical

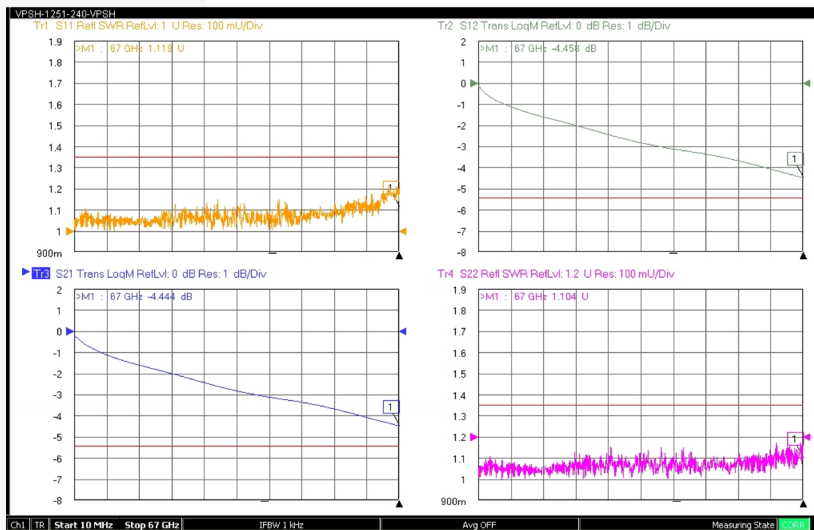
- Min Bend Radius 0.5 inch
- Recommended Bend Radius 4.0 inch

Environmental

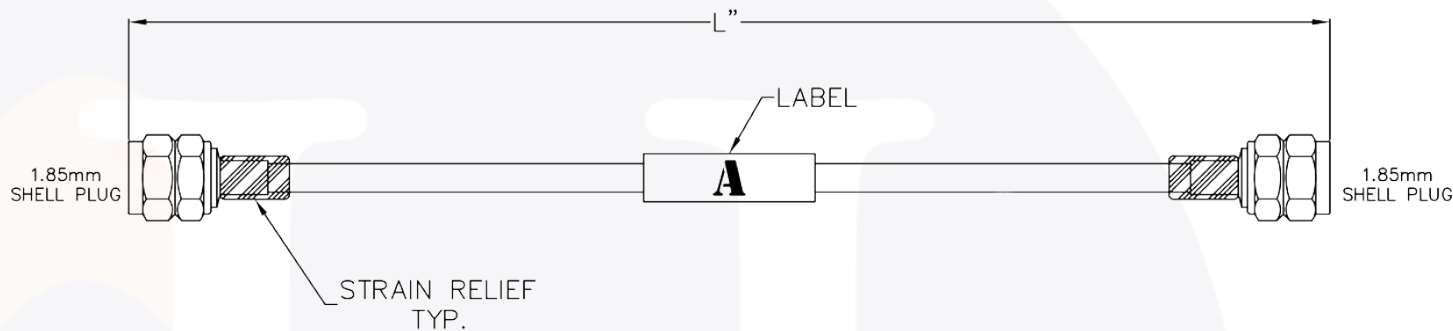
- Temperature Range -65°C to 200°C

Material

- Connector Body Gold plated Brass
- Connector Nut Passivated Stainless Steel
- Retaining Ring Gold plated BeCu
- Cable Jacket FEP



HLL125 Low Loss Flexible Cable Series with 1.85mm Male Connectors | DC - 67 GHz | Outline Drawing



125 Series (Continued)

Attenuation (max)			
			1251
GHz	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.04	0.12	0.41	270
1	0.20	0.65	220
2	0.28	0.93	200
4	0.41	1.35	120
6	0.51	1.69	85
8	0.60	1.98	75
10	0.68	2.24	70
12	0.76	2.49	65
14	0.83	2.71	60
16	0.89	2.93	55
18	0.96	3.14	50
20	1.02	3.34	45
22	1.08	3.53	43
24	1.14	3.72	42
26	1.19	3.90	40
28	1.25	4.08	39
30	1.30	4.26	38
32	1.35	4.43	37
34	1.40	4.59	36
36	1.45	4.76	35
38	1.50	4.92	32
40	1.55	5.08	30
42	1.59	5.23	29
44	1.64	5.38	28
46	1.69	5.53	27
48	1.73	5.68	26
50	1.78	5.83	25
52	1.82	5.98	25
54	1.87	6.12	25
56	1.91	6.26	23
58	1.95	6.36	23
60	2.00	6.52	22
62	2.04	6.65	22
64	2.08	6.78	22
65	2.10	6.84	21
68	2.12	6.95	20
70	2.14	7.02	19

LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: NS	REVIEWED BY: JS
-	RELEASE	1/25	TC		APPROVED BY: TC
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MATERIALS: SEE DATA SHEET	CAGE CODE: 0T8L4	SCALE: N/A	SIZE: A
FINISHES: SEE DATA SHEET	PART NO./DRAWING NO. HLL125-VP-VP-L		REV: A