

Part No:

# HLL185R-VP-VJ-L



## 1.85mm Male to 1.85mm Female Low Loss Ruggedized Test Cable - DC - 67 GHz

The HASCO HLL185R Series Cable is a low loss LL185 cable that operates from DC to 67 GHz. This cable series is constructed with 1.85mm Male to 1.85mm Female connectors. These cables are internally ruggedized with multi-layer copper spiral and braided armor. They offer excellent phase and amplitude stability vs. flexure. The HLL185R Series cables offer 1.50:1 max VSWR.

The HLL185R-VP-VJ-L is RoHS Compliant.



HASCO offers many types and configurations of RF and microwave cable assemblies and can support most requirements, such as flexible, conformable, semi-rigid, VGA, low-loss, phase stable, armored, jacketed and more; all assembled with the highest quality RF connectors.

### Electrical

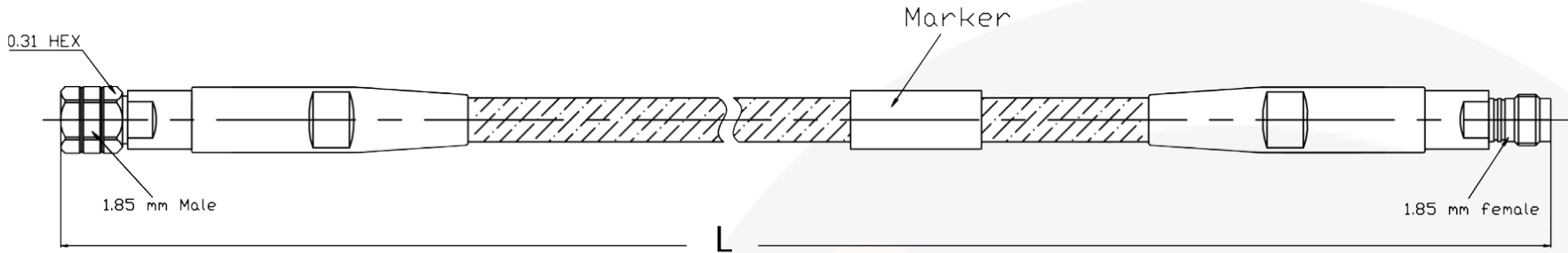
• Frequency Range	DC - 67 GHz	• Bend Radius	30mm
• VSWR	1.50:1 Max	• Impedance	50 Ohms
• Bending Phase Stability	$\leq \pm 6.5^\circ$ @ 67 GHz	• Durability	>5000
• Insertion Loss	$\leq 4.0 \times f(\text{GHz})$ dB	• Armor Stress Tolerance	90N / 25mm
• Phase Stability	$\pm 0.15$ dB @ 67 GHz	• Velocity	76%
• Insulation Resistance	$\geq 5000$ M $\Omega$	• Screening Effectiveness	>90 dB
• Capacitance	27pf / ft = 88pf / m	• Armor Outer Diameter	4.7mm
• RF Leakage	$\geq 90$ dB	• Weight	.038kg / m
• Temperature Range	-55°C to 125°C		


### Material

• Connector Body	Passivated Stainless Steel
• Connector Dielectric	PEI
• Connector Center Contact	Gold plated BeCu
• Cable Center Conductor	Silver plated Copper
• Cable Dielectric	LDPTFE
• Inner Shield	Silver plated flat Copper wire braid
• Middle Shield	LDPTFE
• Outer Shield	Silver plated Copper wire braid
• Jacket	FEP
• Inner Armor	Silver plated Copper
• Strengthened Shield	Silver plated Copper wire
• Anti-Twist Layer	Polyimide
• Outer Armor	PTFE Braid

Attenuation & Power Handling @ 25°C & Sea Level			
Frequency (GHz)	Attenuation		Power Handling
	dB / 100 ft	dB / 100m	Watts
1	19.49	64	97
3	34.11	112	55
6	48.73	160	38
18	87.41	287	21
26.5	107.82	354	17
40	135.23	444	14
50	153.20	503	13
67	180.01	591	12

# 1.85mm Male to 1.85mm Female Low Loss Ruggedized Test Cable | DC - 67 GHz | Outline Drawing



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-	RELEASE	8/19	TC		APPROVED BY: <i>TC</i>	
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B	SPECIFICATION UPDATE	5/23	TC			
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MATERIALS:		CAGE CODE:		SCALE:		SIZE:
SEE DATA SHEET		0T8L4		N/A		A
FINISHES:		PART NO./DRAWING NO.			REV:	
SEE DATA SHEET		<b>HLL185R-VP-VJ-L</b>			B	