

Part No:

HLL185R-VP-VP-L



1.85mm Male to 1.85mm Male 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 Male 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-VP-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

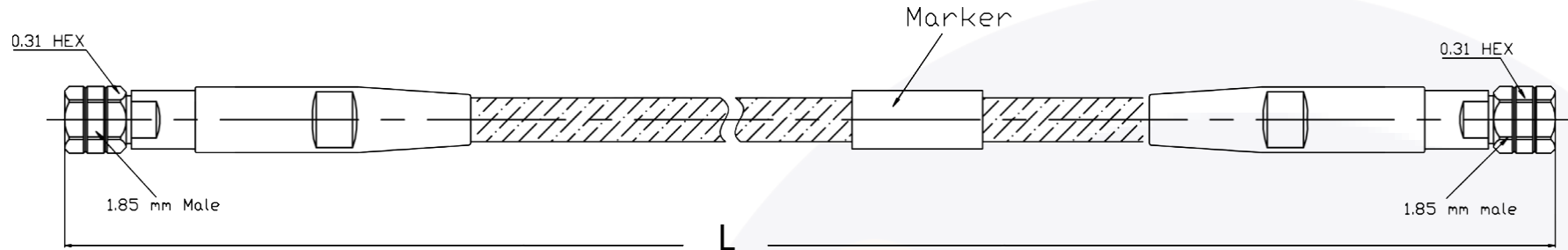
• Frequency Range	DC - 67 GHz	• Bend Radius	30mm
• VSWR	1.50:1 Max	• Impedance	50 Ohms
• Bending Phase Stability	$\leq \pm 6.5^\circ$ @ 67 GHz	• Durability	>5000
• Insertion Loss	$\leq 4.0 \times f(\text{GHz})$ dB	• Armor Stress Tolerance	90N / 25mm
• Phase Stability	± 0.15 dB @ 67 GHz	• Velocity	76%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


Material

• Connector Body & Nut	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			
	Attenuation		Power Handling
Frequency (GHz)	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 Male Low Loss Ruggedized Test Cable | DC - 67 GHz | Outline Drawing



LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: NS	REVIEWED BY: JS	<div><div>5214 Bonsai Street • Moorpark, CA 93021 (888) 498-3242 • sales@hasco-inc.com www.hasco-inc.com</div></div>			
-	RELEASE	8/19	TC		APPROVED BY: TC				
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B	SPECIFICATION UPDATE	5/23	TC			SEE DATA SHEET	0T8L4	N/A	A
						FINISHES:	PART NO./DRAWING NO.		REV:
						SEE DATA SHEET	HLL185R-VP-VP-L		B
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