

Part No:

HLL283R-S1-S2-L



SMA Male to SMA Female Low Loss Ruggedized Test Cable - DC - 26.5 GHz

The HASCO HLL283R Series Cable is a low loss LL283 cable that operates from DC to 26.5 GHz. This cable series is constructed with SMA Male to SMA 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 HLL283R Series cables offer 1.30:1 max VSWR.

The HLL283R-S1-S2-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

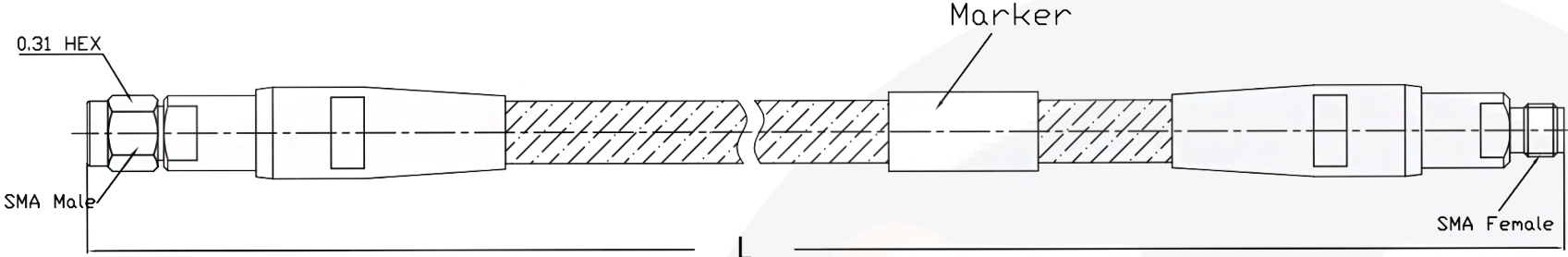
• Frequency Range	DC - 26.5 GHz	• Bend Radius	46mm
• VSWR	1.30:1 Max	• Impedance	50 Ohms
• Bending Phase Stability	$\leq \pm 2.7^\circ$ @ 50 GHz	• Durability	>5000
• Insertion Loss	$\leq 2.6 \times f(\text{GHz})$ dB	• Armor Stress Tolerance	160N / 25mm
• Phase Stability	± 0.03 dB @ 50 GHz	• Velocity	76%
• Insulation Resistance	≥ 5000 M Ω	• Screening Effectiveness	>90 dB
• Capacitance	27pf / ft = 88pf / m	• Armor Outer Diameter	7.6mm
• RF Leakage	≥ 90 dB	• Weight	.5kg / m
• Temperature Range	-55°C to 125°C		

Material

• Connector Body & Nut	Passivated Stainless Steel
• Connector Dielectric	PTFE
• Connector Center Contact	Gold plated BeCu
• Cable Center Conductor	Silver plated Copper
• Cable Dielectric	PTFE
• 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	Tin 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
0.5	8.08	26.5	717
1	11.46	37.6	505
3	19.99	65.6	289
6	28.53	93.6	203
10	37.12	121.8	156
12	41.27	135.4	137
18	50.41	165.4	115
26.5	61.81	202.8	94

SMA Male to SMA Female Low Loss Ruggedized Test Cable | DC - 26.5 GHz | Outline Drawing



LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: <i>NS</i>	REVIEWED BY: <i>JS</i>
-	RELEASE	8/19	TC		APPROVED BY: <i>TC</i>
A	JACKET COLOR CHANGE	10/20	TC	THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HASCO COMPONENTS AND SHALL NOT BE REPRODUCED, COPIED NOR USED - IN WHOLE OR IN PART - AS THE BASIS FOR THE MANUFACTURE OR SALE OF OTHER ITEMS WITHOUT THE EXPRESS, WRITTEN PERMISSION OF HASCO COMPONENTS.	
B	SPECIFICATION UPDATE	5/23	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. HLL283R-S1-S2-L		REV: B