

Part No:

# HLL228R-24P-24P-L



## 2.4mm Male to 2.4mm Male Low Loss Ruggedized Test Cable - DC - 50 GHz

The HASCO HLL228R Series Cable is a low loss LL228 cable that operates from DC to 50 GHz. This cable series is constructed with 2.4mm Male to 2.4mm 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 HLL228R Series cables offer 1.35:1 max VSWR.

The HLL228R-24P-24P-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

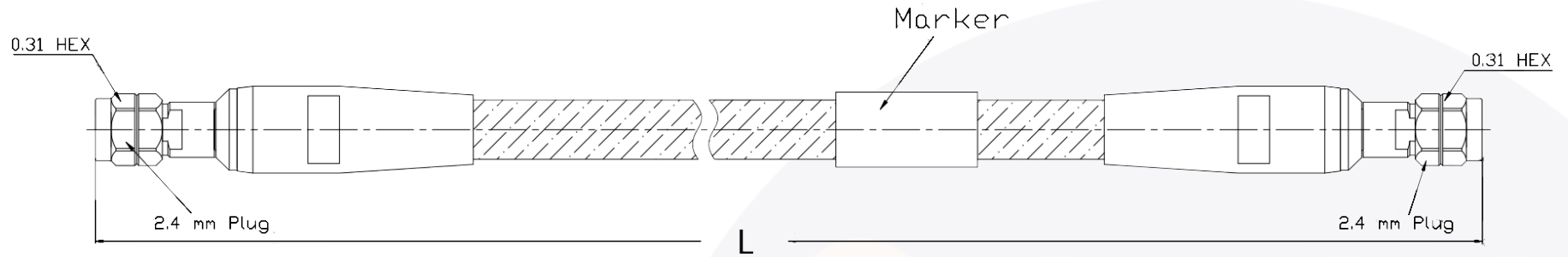
• Frequency Range	DC - 50 GHz	• Bend Radius	36mm
• VSWR	1.35:1 Max	• Impedance	50 Ohms
• Bending Phase Stability	$\leq \pm 5^\circ$ @ 50 GHz	• Durability	>5000
• Insertion Loss	$\leq 2.8 \times f(\text{GHz})$ dB	• Armor Stress Tolerance	100N / 25mm
• Phase Stability	$\pm 0.05$ dB @ 50 GHz	• Velocity	76%
• Insulation Resistance	$\geq 5000$ M $\Omega$	• Screening Effectiveness	>90 dB
• Capacitance	27pf / ft = 88pf / m	• Armor Outer Diameter	5.80mm
• RF Leakage	$\geq 90$ dB	• Weight	.042kg / 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	33.2	43.8	250
3	43.1	76.4	140
6	48.2	108.8	130
12	58.5	158.1	80
18	71.6	191.8	72
26.5	88.9	234.8	66
40	113.4	291.7	60
50	123.3	328.5	56

## 2.4mm Male to 2.4mm Male Low Loss Ruggedized Test Cable | DC - 50 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 <a href="http://www.hasco-inc.com">www.hasco-inc.com</a></div></div>			
-	RELEASE	8/19	TC		APPROVED BY: TC				
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.		MATERIALS:  SEE DATA SHEET	CAGE CODE:  0T8L4	SCALE:  N/A	SIZE:  A
B	SPECIFICATION UPDATE	5/23	TC				PART NO./DRAWING NO.  HLL228R-24P-24P-L	REV:  B	
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