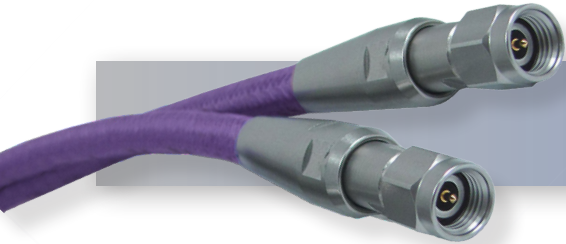


Part No:

HLL228R-29P-29P-L



2.92mm Male to 2.92mm Male Low Loss Ruggedized Test Cable - DC - 40 GHz

The HASCO HLL228R Series Cable is a low loss LL228 cable that operates from DC to 40 GHz. This cable series is constructed with 2.92mm Male to 2.92mm 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 1.30:1 max VSWR.

The HLL228R-29P-29P-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

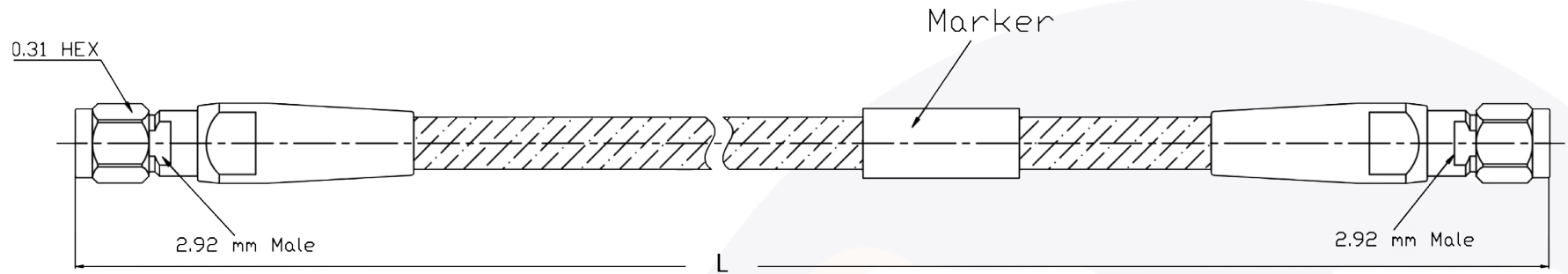
• Frequency Range	DC - 40 GHz	• Bend Radius	38mm
• VSWR	1.30:1 Max	• Impedance	50 Ohms
• Bending Phase Stability	$\leq \pm 4^\circ$ @ 50 GHz	• Durability	>5000
• Insertion Loss	$\leq 2.8 \times f(\text{GHz})$ dB	• Armor Stress Tolerance	100N / 25mm
• Phase Stability	± 0.04 dB @ 50 GHz	• Velocity	83%
• Insulation Resistance	≥ 5000 M Ω	• Screening Effectiveness	>90 dB
• Capacitance	27pf / ft = 88pf / m	• Armor Outer Diameter	5.80mm
• RF Leakage	≥ 90 dB	• Weight	.046kg / 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	Stainless Steel spring wire
• Strengthened Shield	Tin plated Copper wire
• Anti-Twist Layer	PTFE wrapping tape
• Outer Armor	PTFE Braid

Attenuation & Power Handling @ 25°C & Sea Level			
Frequency (GHz)	Attenuation		Power Handling
	dB / 100 ft	dB / 100m	Watts
1	11.4	37.5	509
3	20.0	65.7	291
6	28.6	93.8	203
10	37.3	122.4	156
12	41.4	135.8	141
18	50.8	166.7	115
26.5	62.4	204.8	93
40	77.7	254.8	75

2.92mm Male to 2.92mm Male Low Loss Ruggedized Test Cable | DC - 40 GHz | Outline Drawing



LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: <i>NS</i>	REVIEWED BY: <i>JS</i>	<div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> 5214 Bonsai Street • Moorpark, CA 93021 (888) 498-3242 • sales@hasco-inc.com www.hasco-inc.com </div>			
-	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.		MATERIALS:	CAGE CODE:	SCALE:	SIZE:
B	SPECIFICATION UPDATE	5/23	TC			SEE DATA SHEET	OT8L4	N/A	A
						FINISHES:	PART NO./DRAWING NO.		REV:
						SEE DATA SHEET	HLL228R-29P-29P-L		B
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