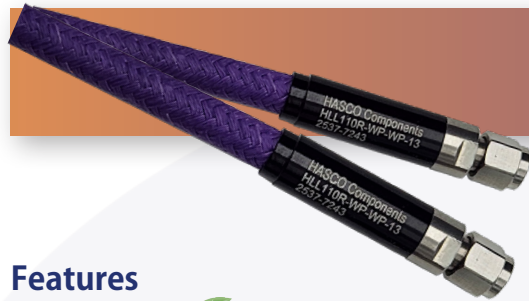


Part No:

# HLL110R-WP-WP-L



## HLL110R Low Loss Ruggedized Cable Series with 1.0mm Male to 1.0mm Male Connectors - 110 GHz

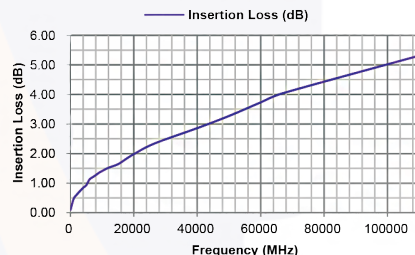
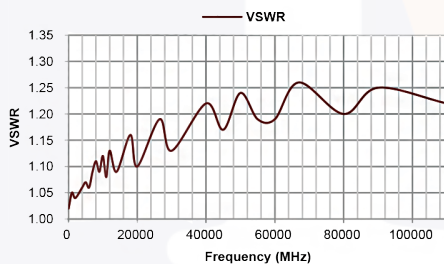


### Features

- RoHs Compliant 
- Low Loss, Low VSWR, High Reliability

The HASCO HLL110R Series Cable is a low loss LL110 cable that operates from DC to 110 GHz. This cable series is constructed with 1.0mm Male to 1.0mm Male connectors. These cables are internally ruggedized with multi-layer copper spiral and braided armor. They offer excellent phase and amplitude stability vs. flexure.

Part #	*L	110 GHz	
		VSWR	IL(dB)
HLL110R-WP-WP-6	6"	1.35:1	3.3
HLL110R-WP-WP-9	9"	1.35:1	4.5
HLL110R-WP-WP-12	12"	1.35:1	5.6
HLL110R-WP-WP-13	13"	1.35:1	6.0
HLL110R-WP-WP-18	18"	1.35:1	7.9
HLL110R-WP-WP-24	24"	1.35:1	10.2
HLL110R-WP-WP-30	30"	1.35:1	12.5
HLL110R-WP-WP-36	36"	1.35:1	14.8
HLL110R-WP-WP-48	48"	1.35:1	19.3
HLL110R-WP-WP-1M	1 Meter	1.35:1	16.0



### Electrical

- Impedance: 50 Ω
- Frequency Range: DC - 110 GHz
- Amplitude Stability:  $< \pm 0.2$  dB @ 110 GHz
- Phase Stability vs. Flexure:  $< \pm 8^\circ$  @ 110 GHz (When wrapped 360° around a 50mm radius mandrel)
- Shielding Effectiveness:  $> 100$  dB

Power Handling @ 40°C	1GHz	12GHz	18GHz	26.5GHz	40GHz	50GHz	67GHz	110GHz
	49.3W	13.6W	11W	8.9W	7.1W	6.2W	5.3W	3.4W

### Mechanical

- Min Bend Radius: 30mm

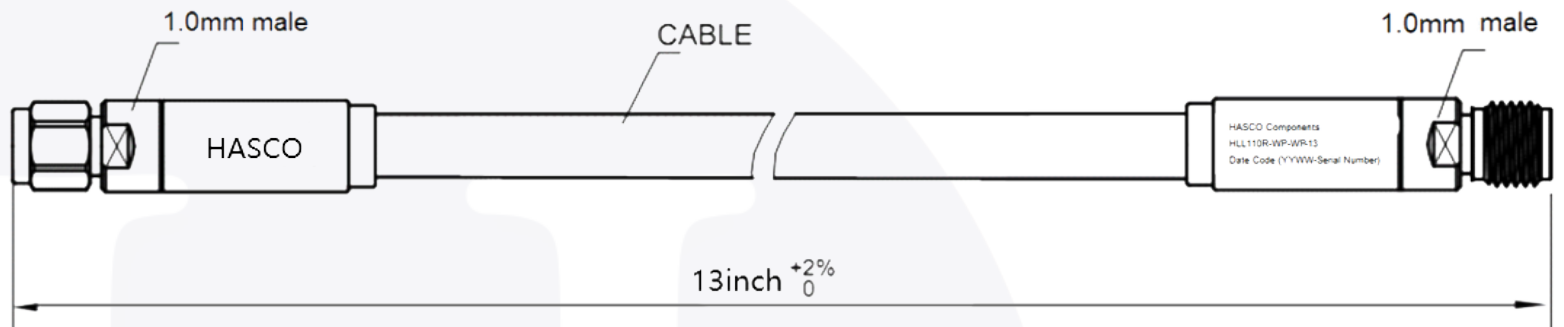
### Environmental


- Temperature Range: -55°C to 85°C

### Material

- Connector Body & Nut: Passivated Stainless Steel
- Connector Dielectric: PEI
- Center Contact: Gold Plated BeCu
- Connector Sleeve: Blackened Aluminum
- Cable Inner Conductor: Solid SPC
- Cable Dielectric: Foamed PTFE
- Cable Inner Braid: SPC Strip
- Cable Outer Braid: SPC Braid
- Cable Jacket: FEP
- Cable Crush Member: Stainless Steel Spiral Spring
- Cable Strength Member: Stainless Steel Braid
- Cable Outer Binder: PTFE Fim Tape w/ Silicone Adhesive
- Cable Outer Jacket: PTFE Braid, Cantone 526C

# HLL110R Low Loss Ruggedized Cable Series with 1.0mm Male to 1.0mm Male Connectors | DC - 110 GHz | Outline Drawing



LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: <i>NS</i>	REVIEWED BY: <i>JS</i>	 <p>5214 Bonsai Avenue • Moorpark, CA 93021 (888) 498-3242 • sales@hasco-inc.com <a href="http://www.hasco-inc.com">www.hasco-inc.com</a></p>				
-	RELEASE	3/26	TC		APPROVED BY: <i>TC</i>					
				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: <b>SEE DATA SHEET</b>	CAGE CODE: <b>0T8L4</b>	SCALE: <b>N/A</b>	SIZE: <b>A</b>	
						FINISHES: <b>SEE DATA SHEET</b>	PART NO./DRAWING NO. <b>HLL110R-WP-WP-L</b>		REV: <b>-</b>	
						THIS DRAWING IS A CONTROLLED DOCUMENT				