

Part No:

HLL110R-WP-WP-L



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

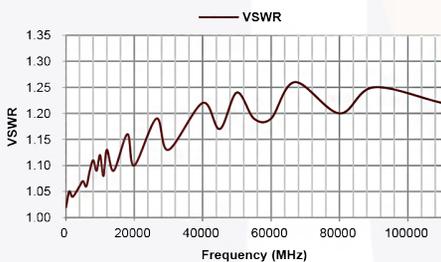


Features

- 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	DC - 40 GHz		40 - 50 GHz		50 - 67 GHz		67 - 110 GHz	
		VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)
HLL110R-WP-WP-13	13"	1.22:1	2.9	1.22:1	3.3	1.26:1	4.0	1.26:1	5.3



Electrical

- Impedance 50 Ω
- Frequency Range DC - 110 GHz
- Amplitude Stability ± 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

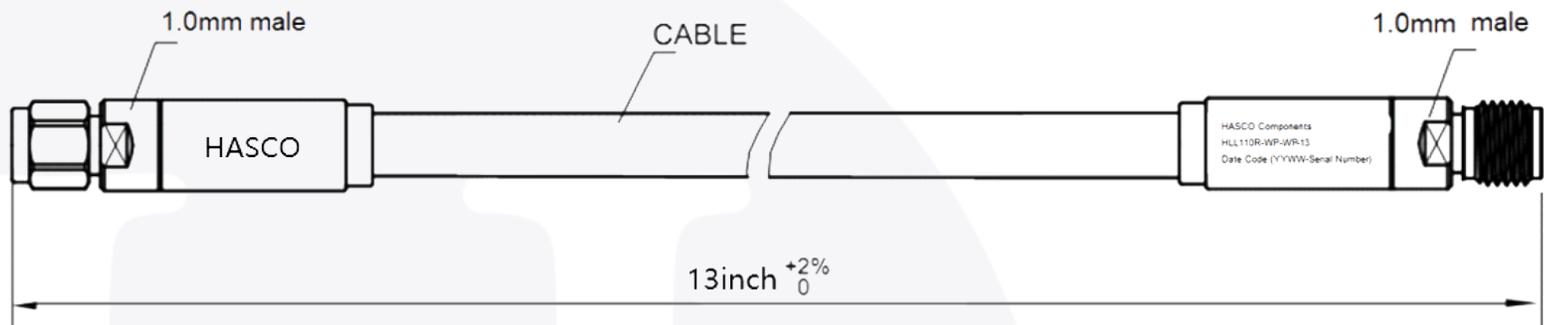
Environmental

- 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: NS	REVIEWED BY: JS
-	RELEASE	9/25	TC		APPROVED BY: 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. HLL110R-WP-WP-L		REV: -

Product specifications subject to change without notification.