


Part No:

HLL142A



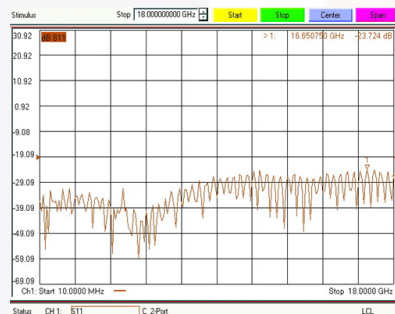
HLL142A Low Loss Armored Cable Series - 18 GHz

Features

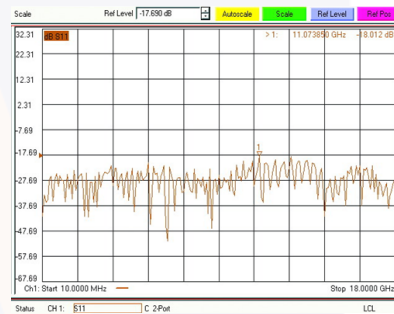
- RoHS Compliant 
- Low Loss, Low VSWR, High Reliability
- Phase Stable over Temp: 250ppm Max @ 22°C ~ 100°C
- Phase Stable vs. Flexure: $\pm 6.4^\circ$ @ 18 GHz
(When wrapped 360° around a 3" diameter mandrel)
- Stainless Steel Armor

The HASCO **HLL142A** is a Low Loss Armored Cable Series that is phase stable over temperature and phase stable vs. flexure.

This cable series is available with SMA and/or Type N connectors.



Test 1: SMA Male Connectors, 24 inch



Test 2: Type N Male Connectors, 24 inch

Electrical

• Impedance	50 Ohms		
• Frequency Range	DC - 18 GHz		
• VSWR	1.35:1 Max		
• Insertion Loss	-0.48 x f(GHz) dB		
• Amplitude Stability	$\leq \pm 0.3$ dB thru 18 GHz		
• Velocity of Propagation	83%		
• Capacitance	25 pF/ft		
• Power CW	510 W @ 2 GHz	285 W @ 6 GHz	220 W @ 10 GHz
• Phase Stability vs. Flexure	$\pm 0.4^\circ$	$\pm 1.2^\circ$	$\pm 2.0^\circ$
• RF Leakage	< -95 dB @ 18 GHz		

Mechanical

- Min Bend Radius 2.5 inch (63.5mm)
- Recommended Bend Radius 3.0 inch (76.2mm)

Environmental

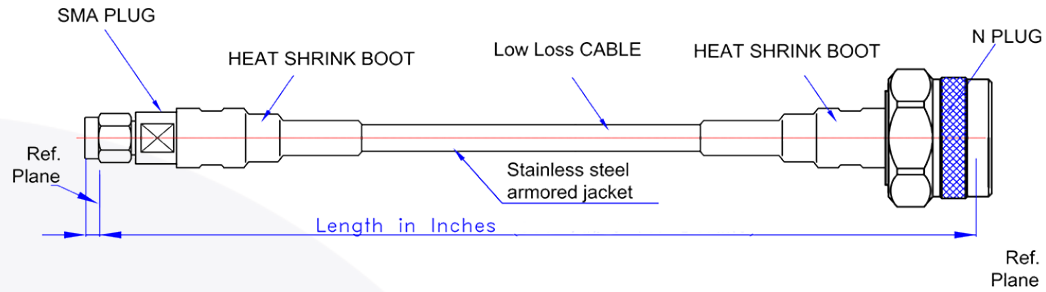
- Crush Resistance 94.7 kN/m
- Temperature Range -55°C to 200°C

Material

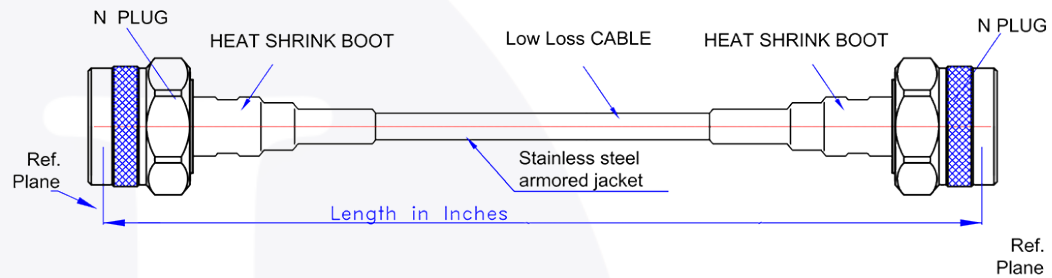
- Connector Body & Nut Passivated Stainless Steel
- Gasket Silicon
- Dielectric PTFE
- Center Contact Gold Plated BeCu
- Cable Jacket FEP
- Interlok Armor Passivated Stainless Steel

HLL142A Low Loss Armored Cable Series | DC - 18 GHz | Outline Drawing

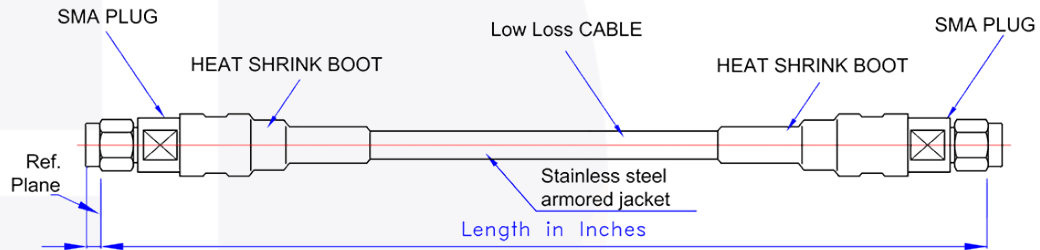
SMA Male to Type N Male



Type N Male to Type N Male



SMA Male to SMA Male



LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: NS	REVIEWED BY: JS
-	RELEASE	6/15	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. HLL142A		REV: A