


Part No:

# HSFL42-S1-S1-L



## HSFL42 Low Loss Ultra Flexible Cable Series with SMA Male Connectors - 26.5 GHz

### Features

- RoHS Compliant 
- Low Loss, Low VSWR, High Reliability
- Phase Stable vs. Flexure:  $\pm 3^\circ$  @ 26.5 GHz  
(When wrapped 360° around a 1" diameter mandrel)

The HASCO **HSFL42** is a Low Loss Ultra Flexible Cable Series that is phase stable vs. flexure. Available with SMA Male connectors and rated to 26.5 GHz.

Part Number	Length (inch)	Insertion Loss (dB)
HSFL42-S1-S1-12	12"	$\leq 1.3$ dB
HSFL42-S1-S1-18	18"	$\leq 1.7$ dB
HSFL42-S1-S1-24	24"	$\leq 2.1$ dB
HSFL42-S1-S1-30	30"	$\leq 2.6$ dB
HSFL42-S1-S1-36	36"	$\leq 3.0$ dB
HSFL42-S1-S1-42	42"	$\leq 3.5$ dB
HSFL42-S1-S1-48	48"	$\leq 3.8$ dB
HSFL42-S1-S1-60	60"	$\leq 4.6$ dB

### Electrical

- Impedance 50  $\Omega$
- Frequency Range DC - 26.5 GHz
- VSWR 1.35:1 Max
- Amplitude Stability  $\leq \pm 0.3$  dB thru 26.5 GHz
- Velocity of Propagation 70%
- Insulation Resistance 5000 M $\Omega$  Min
- Diel. Withstanding Voltage 1000 V Max
- Time Delay 1.43 ns/ft
- Capacitance 29.4 pF/ft
- Power CW 350 W @ 2 GHz    175 W @ 6 GHz    72 W @ 26.5 GHz
- Phase Stability vs. Flexure  $\pm 0.23^\circ$      $\pm 0.7^\circ$      $\pm 3.0^\circ$
- RF Leakage < -110 dB @ 18 GHz

### Mechanical

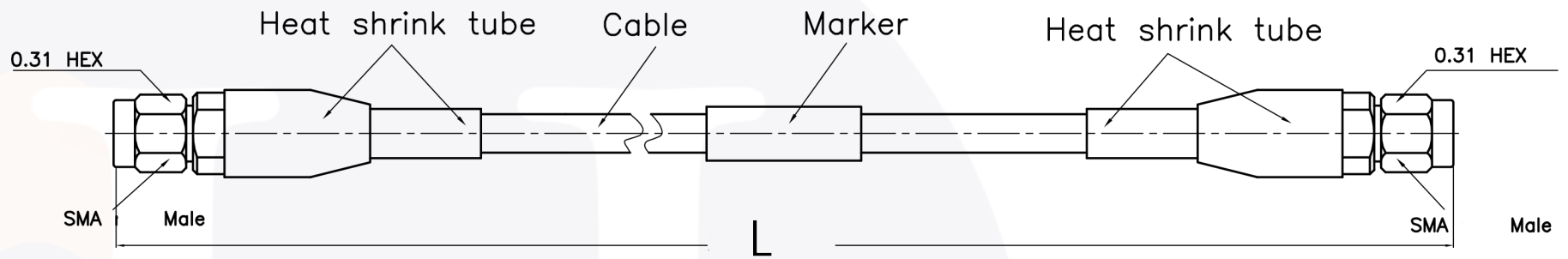
- Min Bend Radius 1.0 inch
- Recommended Bend Radius 1.63 inch


### Environmental

- Temperature Range -55°C to 85°C

### Material

- Connector Body & Nut Passivated Stainless Steel
- Dielectric PTFE
- Center Contact Gold Plated BeCu
- Braid Flat SPC Strip (inner), SPC Braid (outer)
- Cable Jacket PVC



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A	DATASHEET UPDATE	6/26	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:
						SEE DATA SHEET	0T8L4	N/A	A
						FINISHES:	PART NO./DRAWING NO.		REV:
						SEE DATA SHEET	<b>HSFL42-S1-S1-L</b>		A
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