

## TLBend Ultra Flexible RF Cable Assembly

TLBend086/2.92 Male /2.92 Male/DC-40GHz

TLBend086-2.92M2.92M-L

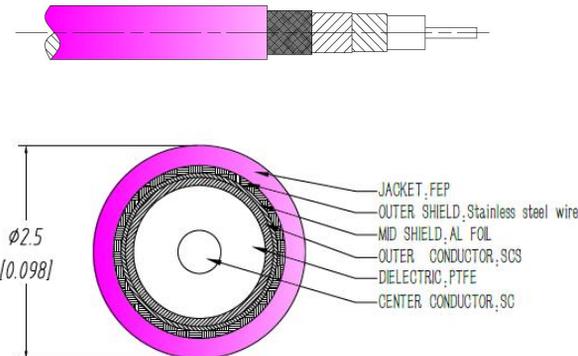
### Features:

- Max Frequency 40GHz
- VSWR max of 1.35
- Velocity of Propagation of 70%

### Applications:

- Test & Measurement equipment
- Manufacturing lab
- WAN system equipment

### Cable Cross Section:



### Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
VSWR		1.25	1.35	:1
Velocity of propagation		70%		
Shielding Effectiveness	90			dB
Capacitance		95.2		pF/m
Phase Stability Vs. Flexure@40GHz		±8		°
Amplitude Stability Vs.Flexure@40GHz		±0.10		dB

### Environmental And Physical Characteristics:

Description	Parameter	Units
Cable Diameter	2.5	mm
Cable Jacket	FEP	
Min. Static Bending Radius	5.08	mm
Min. Repeated Bending Radius	25	mm
Operating Temperature	-55 to +125	°C
Storage Temperature	-55 to +125	°C

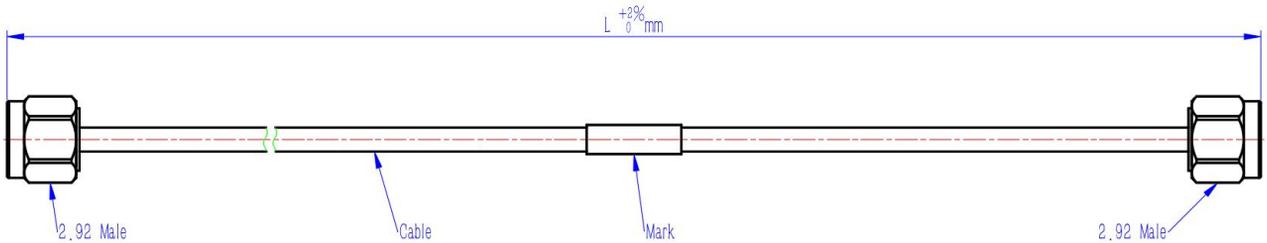
### Cable Performance By Frequency:

Frequency 1 GHz 1.5 GHz 2 GHz 4 GHz 6 GHz 8 GHz 10 GHz 12 GHz 18 GHz 26.5 GHz 35 GHz 40 GHz

### Connectors:

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Male
Contact Material And Plating	Beryllium Copper,Gold	Beryllium Copper,Gold
Dielectric Type	PEI	PEI
Body Material And Plating	Passivated Stainless Steel	Passivated Stainless Steel
Insertion Loss (dB Max)	0.05* $\sqrt{f\_GHz}$	0.05* $\sqrt{f\_GHz}$

### Outline Drawing:



### Ordering Information:

Base Number	Lenth (Inches)
TURbend086-2.92M2.92ML	-L

### Standard Model:

Part#	L (Inch)	2 GHz		12.4 GHz		18 GHz		24 GHz		40 GHz	
		VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)	VSWR	IL(dB)
TURbend086-2.92M2.92ML	3	1.15	0.19	1.20	0.40	1.30	0.54	1.30	0.63	1.35	1.07
TURbend086-2.92M2.92ML	4	1.15	0.23	1.20	0.48	1.30	0.65	1.30	0.75	1.35	1.21
TURbend086-2.92M2.92ML	6	1.15	0.29	1.20	0.65	1.30	0.84	1.30	0.99	1.35	1.50
TURbend086-2.92M2.92ML	8	1.15	0.35	1.20	0.82	1.30	1.05	1.30	1.22	1.35	1.79
TURbend086-2.92M2.92ML	10	1.15	0.41	1.20	0.98	1.30	1.24	1.30	1.46	1.35	2.08
TURbend086-2.92M2.92ML	12	1.15	0.47	1.20	1.15	1.30	1.42	1.30	1.68	1.35	2.36
TURbend086-2.92M2.92ML	14	1.15	0.56	1.20	1.35	1.30	1.62	1.30	1.92	1.35	2.65
TURbend086-2.92M2.92ML	16	1.15	0.60	1.20	1.46	1.30	1.81	1.30	2.14	1.35	2.94
TURbend086-2.92M2.92ML	18	1.15	0.66	1.20	1.64	1.30	2.05	1.30	2.38	1.35	3.23