

## Flexible Ultra Low Loss Coax Cable Assembly

UF3/N Male/N Male/DC-18 GHz

Model: UF3-NMNM-L



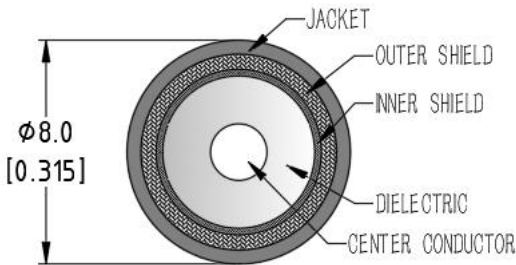
### Features:

- Max Frequency 18 GHz
- VSWR max of 1.30
- Velocity of Propagation of 76%

### Applications:

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

### Cable Cross Section:



### Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	DC		18	GHz
VSWR		1.25	1.3	:1
Velocity of propagation		76%		
Shielding Effectiveness	90			dB
Capacitance			81	pF/m
Phase Stability Vs. Flexure		$\pm 8$	$\pm 10$	$^{\circ}$
Amplitude Stability Vs. Flexure		$\pm 0.1$	$\pm 0.2$	dB
Phase Stability Vs. Temperature			550	PPM

### Environmental And Physical Characteristics:

Description	Parameter	Units
Cable Diameter	8.0	mm
Cable Jacket	PUR	
Min. Bending Radius	32	mm
Typical Flex life	50000	
Operating Temperature	-55 to +85	$^{\circ}\text{C}$
Storage Temperature	-55 to +85	$^{\circ}\text{C}$

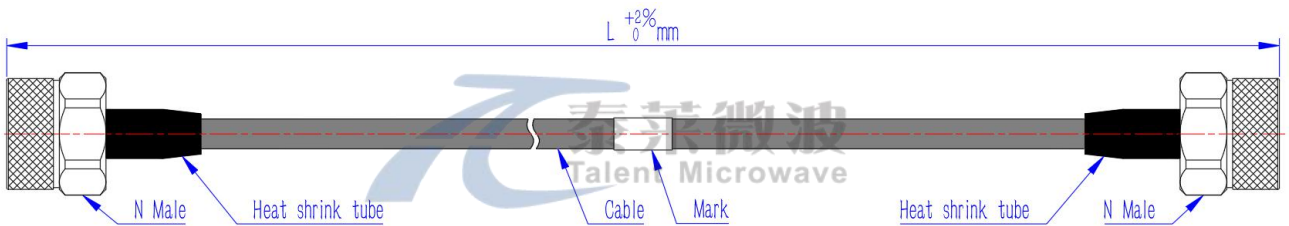
### Cable Performance By Frequency

Frequency	2 GHz	4 GHz	6 GHz	8 GHz	10 GHz	12 GHz	16 GHz	18 GHz
Insertion Loss (dB/m Max.)	0.27	0.40	0.51	0.61	0.70	0.78	0.94	1.02
RF Power CW (W Max.)	967	647	508	426	370	330	274	254

### Connectors:

Description	Connector 1	Connector 2
Type	N Straight Male	N Straight Male
Contact Material And Plating	Brass,Gold	Brass,Gold
Dielectric Type	PTFE	PTFE
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 (Unit meters)	Phase/delay Matched
UF3-NMNM	-L	LEAVE BLANK (NOT REQUIRED) -XXPS ( $\leq \pm XX$ PS) -XX° ( $\pm XX^\circ$ )

### Typical Performance Data:

Model:UF3-NMNM-1m

Frequency	2 GHz		6 GHz		12 GHz		18 GHz	
	Typ	Max	Typ	Max	Typ	Max	Typ	Max
Insertion Loss	0.34	0.41	0.63	0.75	0.96	1.13	1.23	1.44
VSWR	1.05	1.10	1.15	1.20	1.20	1.25	1.25	1.30