

# T50 Series (2.4 Female-ST to 2.4 Female-ST)

## Test Cable, 50ohms, DC-50GHz



### T50-48-48-"L" (L: Length)

#### Maximum Ratings

Operating Temperature	23°C± 5°C
Storage Temperature	-55°C to +85°C
<i>Permanent damage may occur if any of these limits are exceeded</i>	

Cable Diameter	3.6mm	
Velocity of Propagation	74%	
Shielding Effectiveness	>90dB	
Power Handling at 40°C	1 GHz	125W
	12 GHz	37W
	18 GHz	29W
	26.5 GHz	22W
	40 GHz	18W
50 GHz	15W	
Min. Bending Radius	14.4mm	

#### Features

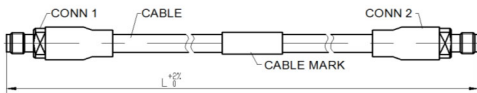
- Ultra-wideband operation, DC to 50 GHz
- Ideal VSWR and measurement accuracy
- Excellent amplitude and phase stability vs flexure and shaking
- Reinforced connector, multilayer armor structure to protect cable against compression, tension, torsion and abrasion

#### Applications

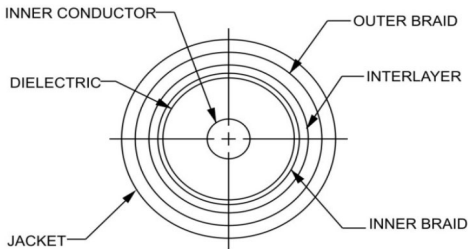
- Lab and production line test
- 5G Massive MIMO and antenna OTA test
- 5G switch and attenuator matrices systems
- Phase array test systems
- RF/Microwave test systems

#### Outline Drawing

Unit [mm]



#### Cable Cross Section



Cable Construction	
Inner Conductor	Silver Plated Copper, Solid
Dielectric	Solid PTFE
Inner Braid	Silver-Plated Copper Braid
Interlayer	PTFE
Outer Braid	Silver-Plated Copper Braid
Jacket	FEP

Connectors	
• Body, Stainless steel, Passivated	
• Center contacts, Beryllium Copper, Gold plated	
• Dielectric, PEI, Natural	

#### Product Guarantee\*

Micable will repair or replace your cable assembly if it fails within six months after shipment. This guarantee excludes product damage from misuse or abuse

#### Electrical Specifications at 25°C

Freq. (GHz)	Length	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 18		18-26.5		26.5-40		40-50		DC - 18		18-26.5		26.5-40		40-50	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-50	2FT	1.4	1.7	1.7	2.0	2.0	2.4	2.6	3.0	1.17	1.25	1.20	1.30	1.26	1.35	1.31	1.40
	3FT	2.0	2.3	2.5	2.8	3.0	3.4	3.4	3.9								
	1M	2.1	2.4	2.7	3.0	3.2	3.6	3.6	4.2								

#### Typical Performance Data ( T50-48-48-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.10
1000	1.05	0.56
2000	1.04	0.78
4000	1.06	0.99
5000	1.07	1.08
6000	1.06	1.17
7000	1.09	1.29
8000	1.10	1.36
9000	1.11	1.47
10000	1.12	1.58
12000	1.13	1.71
18000	1.17	2.09
26500	1.20	2.68
40000	1.26	3.22
50000	1.31	3.63

