

T40E Series (2.4 Male-ST to 2.4 Male-ST)

Temperature Stable Test Cable, 50ohms, DC-40GHz



T40E-39-39-"L" (L: Length)

Maximum Ratings

Operating Temperature -65°C to +165°C

Storage Temperature -65°C to +165°C

Permanent damage may occur if any of these limits are exceeded

Cable Diameter	3.60mm	
Velocity of Propagation	85%	
Shielding Effectiveness	>90dB	
Power Handling at 40°C	1 GHz	725W
	2 GHz	520W
	6GHz	240W
	12 GHz	168W
	18 GHz	120W
	26.5 GHz	95W
40 GHz	75W	
Min. Bending Radius	25.4mm	

Features

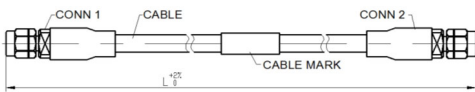
- Stainless steel connectors for long mating-cycle life
- High shielding effectiveness, >90dB
- Excellent phase stability over temperature, 500ppm@-55°C~+85°C
- Extremely low loss, low VSWR
- Wide range of operation temperature at -65°C to +165°C

Applications

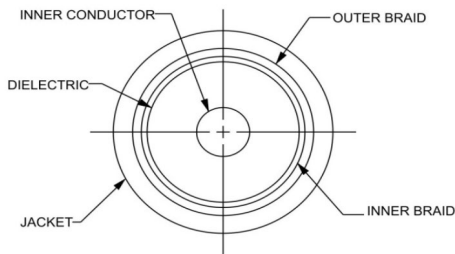
- Thermal cycling and thermal shock test
- RF/Microwave test systems
- Rack to rack connection
- Airborne, shipborne and ground systems

Outline Drawing

Unit [mm]



Cable Cross Section



Cable Construction	
Inner Conductor	Solid Silver Plated Copper
Dielectric	LD-PTFE
Inner Braid	Silver-Plated Copper Strip
Outer Braid	Silver-Plated Copper Braid
Jacket	PFA

Connectors	
• Nut, Stainless steel, Passivated	
• Body, Stainless steel, Passivated	
• Center contacts, Beryllium, Gold plated	
• Dielectric, PEEK, 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 (m)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 6		6-18		18-26.5		26.5-40		DC - 6		6-18		18-26.5		26.5-40	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-40	0.5	0.6	0.8	1.0	1.2	1.2	1.5	1.6	1.9								
DC-40	1	1.0	1.2	1.8	2.1	2.4	2.7	2.9	3.2	1.14	1.20	1.20	1.25	1.27	1.35	1.33	1.40
DC-40	1.5	1.4	1.6	2.7	3.0	3.3	3.6	4.2	4.5								

Typical Performance Data (T40E-39-39-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.05	0.05
1000	1.09	0.44
2000	1.11	0.59
4000	1.12	0.87
5000	1.13	0.95
6000	1.14	1.01
7000	1.15	1.08
8000	1.16	1.16
9000	1.17	1.22
10000	1.18	1.35
12000	1.20	1.47
15000	1.22	1.62
16000	1.23	1.70
18000	1.24	1.81
20000	1.25	1.95
26500	1.27	2.36
31000	1.29	2.53
34000	1.31	2.63
38000	1.32	2.77
40000	1.33	2.86

