

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

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



T40E-48-48-"L" (L: Length)

Maximum Ratings

Operating Temperature -65°C to +165°C

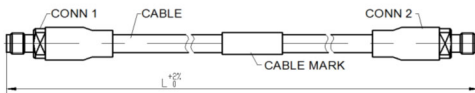
Storage Temperature -65°C to +165°C

Permanent damage may occur if any of these limits are exceeded

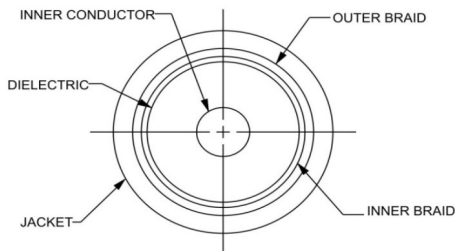
Cable Diameter	3.60mm
Velocity of Propagation	85%
Shielding Effectiveness	>90dB
Power Handling at 40°C	1 GHz 110W
	2 GHz 79W
	6GHz 43W
	12 GHz 31W
	18 GHz 25W
	26.5 GHz 20W
	40 GHz 16W
Min. Bending Radius	25.4mm

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

- Body, Stainless steel, Passivated
- Center contacts, Beryllium, 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

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

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	1.14	1.20	1.20	1.25	1.27	1.35	1.33	1.40
	1	1.0	1.2	1.8	2.1	2.4	2.7	2.9	3.2								
	1.5	1.4	1.6	2.7	3.0	3.3	3.6	4.2	4.5								

Typical Performance Data (T40E-48-48-1M)

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

