

# A11 Series (L29 Male-ST to L29 Male-ST)

## LL480, High Power Cable Assembly, 50ohms, DC-7.5GHz



### A11-49-49-"L" (L: Length)

#### Maximum Ratings

Operating Temperature -55°C to +85°C

Storage Temperature -55°C to +85°C

Permanent damage may occur if any of these limits are exceeded

Cable Diameter	12.19mm	
Velocity of Propagation	83%	
Shielding Effectiveness	>95dB	
Power Handling at 40°C	1 GHz	1835W
	2 GHz	1330W
	3 GHz	1024W
	5 GHz	790W
	6 GHz	705W
	7.5 GHz	627W
Min. Bending Radius	70mm	

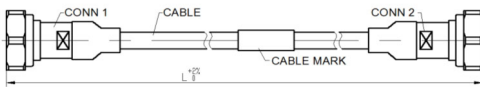
#### Features

- Frequency up to to 7.5GHz
- Stainless steel connectors for long mating-cycle life
- High shielding effectiveness, >95dB
- Excellent phase stability over temperature, 220ppm@+22°C~+85°C
- Low loss, low VSWR
- Super high power handling

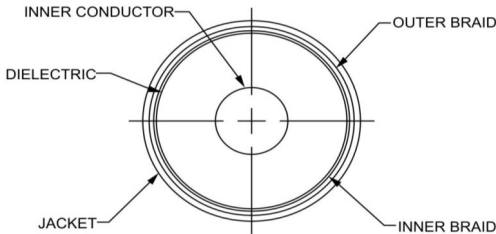
#### Applications

- High power transmitter
- High Power Amplifier systems
- RF/Microwave test systems
- Airborne, shipborne and ground systems
- Phase array radars
- Power amplifier systems

Outline Drawing Unit [mm]



Cable Cross Section



Cable Construction	
Inner Conductor	Solid Silver Plated Copper
Dielectric	Expanded PTFE Tape
Inner Braid	Silver-Plated Copper Strip
Outer Braid	Silver-Plated Copper Braid
Jacket	FEP
Connectors	
• Nut, Brass, Nickel Plated	
• Body, Brass, Nickel Plated	
• Center contacts, Beryllium Copper, Gold plated	
• Dielectric, PTFE, 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

Freq. (GHz)	Length (m)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 1		1 - 3		3 - 6		6 - 7.5		DC - 1		1 - 3		3 - 6		6 - 7.5	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-7.5	0.5	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	1.08	1.13	1.16	1.21	1.26	1.35	1.33	1.40
	1	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7								
	2	0.3	0.4	0.4	0.5	0.8	0.9	0.9	1.0								
	3	0.4	0.5	0.6	0.7	1.1	1.2	1.2	1.3								

Typical Performance Data (A11-49-49-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.03	0.05
1000	1.08	0.18
2000	1.12	0.26
2500	1.16	0.31
4000	1.18	0.37
5000	1.21	0.42
6000	1.26	0.47
7500	1.33	0.51

