

Features

- Phase and Amplitude Stable
- Low VSWR
- Economical
- Flexible
- Various Connector Types
- Customized Length and Configuration

Typical Applications

- R&D Laboratory Testing
- Production Line Testing
- Microwave Anechoic Chamber Testing
- System Interconnections



Specifications and Characteristics

Cable Assembly Series		TC185	TC24	TCA292	TCB292	TCA35	TCB35	TCN	
Maximum Frequency (GHz)		67	50	40	40	26.5	26.5	18	
Impedance (Ohms)		50							
VSWR (with precision connectors, typical)		1.25	1.2	1.15	1.15	1.15	1.15	1.15	
Insertion Loss (L stands for cable assembly length. Unit is the Meter).	3 GHz	1.12*L+0.1	0.77*L+0.1	0.69*L+0.1	0.77*L+0.1	0.48*L+0.1	0.77*L+0.1	0.48*L+0.1	
	10 GHz	2.1*L+0.2	1.42*L+0.2	1.28*L+0.2	1.42*L+0.2	0.92*L+0.2	1.42*L+0.2	0.92*L+0.2	
	18 GHz	2.88*L+0.25	1.92*L+0.25	1.74*L+0.25	1.92*L+0.25	1.28*L+0.25	1.92*L+0.25	1.28*L+0.25	
	26.5 GHz	3.54*L+0.35	2.35*L+0.35	2.13*L+0.35	2.35*L+0.35	1.59*L+0.35	2.35*L+0.35		
	40 GHz	4.44*L+0.4	2.92*L+0.4	2.65*L+0.4	2.92*L+0.4				
	50 GHz	5.03*L+0.5	3.29*L+0.5						
	67 GHz	5.93*L+0.6							
Phase Stability (°, Typical)		±10	±7	±5	±5	±4	±3	±3	
Amplitude Stability (dB, Typical)		±0.1	±0.1	±0.1	±0.1	±0.07	±0.05	±0.05	
Velocity of Propagation		81%	75%	81%	75%	81%	75%	81%	
Shielding Effectiveness (dB)		>90							
Outer Diameter of Cable (mm)		2.4	3.6	4.2	3.6	5.1	3.6	5.1	
Single Bend Radius (mm)		12	18	21	18	25	18	25	
Repeated Bend Radius (mm)		24	36	42	36	50	36	50	
Temperature Range (°C)		-55~+165							

Notes:

The electrical specifications in this table are based on tests carried out on cable assemblies using straight connectors and tested at maximum frequency. Insertion Loss depends on the length of the cable assembly (L stands for the length of the cable assembly using meter as a unit). Cable assemblies can be matched in phase, delay, and amplitude.