

## Standard Phase & Amplitude Stable Test & Measurement Cable Assemblies

### FEATURES

- Excellent VSWR and Insertion Loss
- Excellent Amplitude and Phase stability
- Competitive price
- Excellent flexibility
- Multiple connector choice
- Customized length and configuration

### MAIN APPLICATIONS

- Lab and Production testing
- System interconnection



### CABLE SPECIFICATION

CABLE ASSEMBLY SERIES	TC185	TC24	TCA292	TCB292	TCA35	TCB35	TCN	
Maximum Frequency (GHz)	67	67	67	67	67	67	67	
Impedance (Ohms)	50							
VSWR	1.25	1.2	1.15	1.15	1.15	1.15	1.15	
Insertion Loss*	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							
Cable Outer Diameter (mm)	2.4	3.6	4.2	3.6	5.1	3.6	5.1	
Static Bending Radius (mm)	12	18	21	18	25	18	25	
Dynamic Bending Radius (mm)	24	36	42	36	50	36	50	
Operating Temperature (°C)	-55~+165							

### NOTES

- The electrical specifications provided above are based on tests conducted at the maximum frequency using cable assemblies paired with straight connectors.
- \*Insertion Loss depends on the length of the cable assembly ( L is the length of the cable assembly, Unit: m (Meter)).
- Cable assemblies can be matched in phase, delay, and amplitude.