

High Performance Phase & Amplitude Stable Test & Measurement Cable Assemblies

FEATURES

- Excellent VSWR and Insertion Loss
- Excellent Amplitude and Phase stability
- Ruggedized armor provides excellent crush resistance
- Extremely long service life
- Reinforced connectors
- Customized length and configuration

MAIN APPLICATIONS

- Vector Network Analyzer test port
- Lab and Production testing
- Precise Bench top testing



CABLE SPECIFICATION

CABLE ASSEMBLY SERIES	PC10	PC185	PC24	PCA292	PCB292	PCA35	PCB35	PCN
Maximum Frequency (GHz)	110	67	50	40	40	26.5	26.5	18
Impedance (Ohms)	50							
VSWR (Typical)	1.3	1.25	1.2	1.2	1.15	1.2	1.15	1.15
VSWR (Maximum)	1.5	1.35	1.3	1.3	1.25	1.25	1.2	1.2
Insertion Loss*	15.96*L+1.0	5.93*L+0.6	3.29*L+0.5	2.71*L+0.4	2.92*L+0.4	1.59*L+0.35	2.35*L+0.35	1.28*L+0.2
Phase Stability (°, Typical)	±10	±7	±5	±4	±3	±3	±3	±2
Amplitude Stability (dB, Typical)	±0.1	±0.08	±0.05	±0.05	±0.05	±0.05	±0.05	±0.03
Velocity of Propagation	80%	81%	74%	81%	74%	82%	74%	82%
Shielding Effectiveness (dB)	>100							
Mating Cycles (Typical)	1000	5000	10000	20000	20000	50000	50000	50000
Cable Outer Diameter (mm)	3000	20000	100000	100000	100000	100000	100000	100000
Crush Resistance	45 kgf/cm							
Cable Outer Diameter (mm)	4.3	6.1	6.1	6.7	6.1	8.3	6.1	8.3
Dynamic Bending Radius (mm)	30	36	36	60	36	80	36	80
Operating Temperature (°C)	-55~+125	-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.