Features

Phase and Amplitude Stable
Low VSWR
Flexible
Ruggedized, Crush Resistance and Tensile Resistance
Extremely long service life
Adapt to Reinforced Connector
Customized Length and Configuration

Typical Applications

Vector Network Analyzers (VNAs)
RF & Microwave Instruments
R&D Laboratory Testing
Production Line Testing
Environmental Chamber Testing
Microwave Anechoic Chamber Testing
Field or Out-field Testing

Specifications and Characteristics

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 (L stands for cable assembly length. Unit is the Meter)	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							
Insertion and Unplugging Times of Connector（Typical）	1000	5000	10000	20000	20000	50000	50000	50000
Bending Life of Cable（Typical）	3000	20000	100000	100000	100000	100000	100000	100000
Crush Resistance	45 kgf/cm							
Outer Diameter of Cable（mm）	4.3	6.1	6.1	6.7	6.1	8.3	6.1	8.3
Repeated Bend Radius（mm）	30	36	36	60	36	80	36	80
Temperature Range (℃)	-55～+125	-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 using meter as a unit).
Cable assemblies can be matched in phase, delay, and amplitude.

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