

**Features**

- Low VSWR
- Ultra-low Insertion Loss
- Phase and Amplitude Stable
- Various Connector Types
- Various Cable Types
- Customized Length and Configuration



**Typical Applications**

- Interconnection of Internal Devices
- System Interconnections
- Electronic Countermeasures
- Communication Systems
- Avionics Systems
- Radars

**Specifications and Characteristics**

Cable Assembly Series		IFC10	IFC185	IFC24	IFCA292	IFCB292	IFCC292	IFC35	IFCSMA	IFCAN	IFCBN	IFCCN	
Maximum Frequency (GHz)		110	67	50	40	40	40	32	26.5	18	18	18	
Impedance (Ohms)		50											
VSWR (with precision connectors, typical)		1.4	1.3	1.25	1.25	1.25	1.2	1.2	1.15	1.2	1.15	1.2	
Insertion Loss (L stands for cable assembly length. Unit is the Meter)	3 GHz	1.99*L+0.2	1.12*L+0.1	0.82*L+0.1	0.53*L+0.1	0.58*L+0.1	0.66*L+0.1	0.421*L+0.1	0.41*L+0.1	0.24*L+0.1	0.26*L+0.1	0.39*L+0.1	
	10 GHz	3.73*L+0.3	2.1*L+0.2	1.53*L+0.2	0.98*L+0.2	1.07*L+0.2	1.23*L+0.2	0.783*L+0.2	0.77*L+0.2	0.44*L+0.2	0.49*L+0.2	0.71*L+0.2	
	18 GHz	4.99*L+0.35	2.88*L+0.25	2.08*L+0.25	1.34*L+0.25	1.45*L+0.25	1.67*L+0.25	1.066*L+0.25	1.04*L+0.25	0.61*L+0.25	0.67*L+0.25	0.96*L+0.25	
	26.5 GHz	6.12*L+0.45	3.54*L+0.35	2.56*L+0.35	1.65*L+0.35	1.77*L+0.35	2.05*L+0.35	1.308*L+0.35	1.28*L+0.35				
	40 GHz	7.61*L+0.55	4.44*L+0.4	3.19*L+0.4	2.07*L+0.4	2.18*L+0.4	2.56*L+0.4						
	50 GHz	8.57*L+0.65	5.03*L+0.4	3.6*L+0.5									
	67 GHz	10.03*L+0.8	5.93*L+0.4										
	75 GHz	10.66*L+0.9											
110 GHz	13.14*L+1.1												
Phase Stability (°, Typical)		±13	±10	±8	±6	±6	±6	±4	±4	±2	±2	±3	
Amplitude Stability (dB, Typical)		±0.2	±0.15	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.07	±0.07	±0.1	
Velocity of Propagation		80%	82%	82%	82%	82%	82%	83%	83%	83%	83%	83%	
Velocity of Propagation (dB)		>90											
Outer Diameter of Cable (mm)		1.85	2.2	3.1	3.9	4.0	3.6	4.8	5.2	8.3	7.9	5.6	
Single Bend Radius (mm)		10	11	15	20	20	18	24	26	41	39	28	
Repeated Bend Radius (mm)		20	22	31	40	40	36	48	52	83	79	56	
Temperature Range (C)		-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 length using meter as a unit). Cable assemblies can be matched in phase, delay, and amplitude.