

RF flexible cable assembly, SMA Male to SMA Male, 0.140 inch flexible coaxial cable, 0.5 meter. Supplied as skew matched cable pairs. Time delay +/- 1.5 ps max at 180 MHz. Temp range -40 to 70 deg C. Max phase shift over temp range of 5 deg at 180 MHz. S parameter data included. Price is per cable, minimum order 2 cables.

Product Features

1CA-SAMSAM-F140-0.5M-PM-1.5 PS is a 50 Ohm flexible low loss cable assembly, SMA male to SMA male, 0.5 meter length.

The SMA male connectors are passivated stainless steel.

Supplied as time delay (skew) matched cable pairs, the assemblies are matched to 1.5ps max delay at 180 MHz.

The F140 flexible cable is a low loss, phase stable test cable that is 0.142 inch (3.6mm) diameter.

The cable has a low density PTFE dielectric and 2 shield layers.

Effective shielding is >90 dB.



Mechanical And Environmental Specifications:

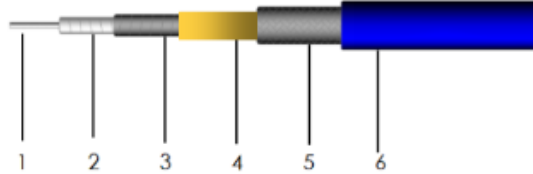
Parameter	Description	Notes
Connector 1	SMA Male	
Connector 2	SMA Male	
RoHS Compliance	Yes	

Drawing

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Features&Benefits

- 74%Vp PTFE Tape+SPC Foil
- Multi-Layer Protection, Excellent Stability



Construction Specification

	Description	Size (mm)	Tol.	Materials
1	Center conductor	0.72	±0.02	Silver Plated Copper
2	Dielectric	2.13	±0.05	ND PTFE
3	Outer conductor	2.30	±0.07	Silver Plated Copper Foil
4	Protective layer	2.70	±0.07	PTFE
5	Outer shield	3.15	±0.10	Silver Plated Copper
6	Jacket	3.60	±0.15	Blue FEP

Mechanical&Environmental Specifications

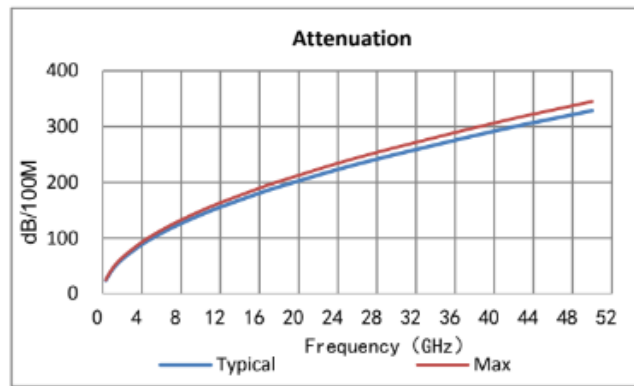
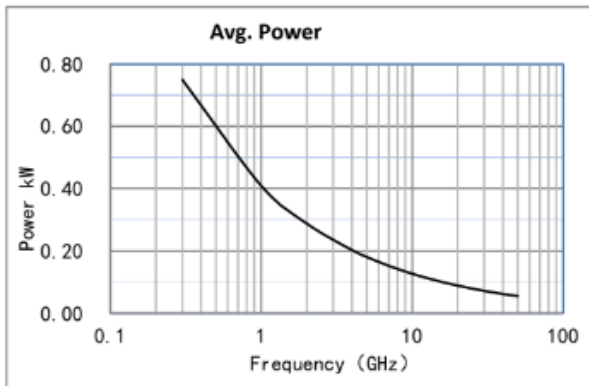
Bend Radius:installation (mm)	18
Bend Radius:repeated (mm)	36
Weight (g/m)	34
Temp, Operating&Installation (°C)	-55~165
Temp, Storage (°C)	-65~165

Electrical Specifications

Operation Frequency (GHz)	50
Impedance (Ohms)	50
Velocity of Propagation	74%
Shielding Effectiveness (dB)	90
Voltage Withstand (V,DC)	1000
Bend Phase	±5°@50GHz
Stable amplitude	±0.05dB@50GHz

Graph

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Attenuation (Typical@25°C&VSWR=1.0) &Power (VSWR=1.0;40°C;Sea Level)

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	16000	18000	26500	40000	50000
dB/100 m	23.9	43.8	62.2	88.5	108.8	126.1	141.5	155.4	180.4	191.8	234.8	291.7	328.5
Avg.Power kW	0.750	0.409	0.288	0.202	0.165	0.142	0.127	0.115	0.099	0.093	0.076	0.061	0.055

K1= 1.3707349

K2= 0.0004400

Calculate Attenuation= $K1 \cdot \sqrt{FMHz} + K2 \cdot FMHz$

Product Notes