Cable Assembly Adapter

Product Manual

High Reliable & Performance Multi-pin Connector Harness Assemblies

Low Loss Phase Stability CableAssemblies

Test Cable Assemblies for Vector Network Analyzer

T26 Series High Reliable & Durable Test Cable

High Precision Delay Line

Superbend® Microwave & Millimeter Wave Cable Assemblies

Hand-Flex. Cable Assemblies

Semi-Rigid Cable Assemblies

High Precision Coaxial Adapters

About Us

SRFS Teleinfra is a leading provider of high-quality telecommunication infrastructure solutions. Our company offers a wide range of products and services for the telecommunication industry, including GSM Antennas, RF Antenna & 5G Components, GPS Antennas, IBS/BTS solutions, and RF Cables. Our main products including Millimeter WaveConnector (1.0mm, 1.85mm, 2.4mm, 2.92mm, 3.5mm): RF Coaxial Connectors (N, SMA, SSMA, RPSMA, SMP(GPO), SMM, BMA, SBMA, TNC, TnCA, RPTNC, BNC, MiniBNC, FME, MCX, MMXC, SHV, MVH, TRB, SAA(1.0/2.3), UHF, SMB, SSMB, L29(7/16), 4.3-10, 4.1-9, 5, L9(1.5/5.6), SMC, SMZ(Type343, C, SC, C2, HN etc), RF Coaxial Adapters, Coaxial Terminations, RF Cable Assemblies, Lightning Arrestor, Fixed Coaxial Attenuator , and so on.

We offer an extensive range of interconnect solutions for Applications in Telecom, Aviation, Navigation, 5G and Radar Detection industries.

With so many years of experience and continuous improvement, we have gained very good reputation from our customers in different markets. Our company covers more than 3000+ square meters, with a full set of original production facilities, equipment and testing instruments.

Main categories include:

- Coaxial Fixed Attenuator/Termination (DC-4GHz through 67GHz, 2W-2kW)
- DC Block (9kHz up to 67GHz)
- mmWave Coax Adapter/Connector(Up to 110GHz)
- Low PIM Component (170dBc termination/attenuator/cable/adapter)
- Waveguide Product (adapter/attenuator/termination/coupler)
- Power Divider
- Flexible Cable Assembly (Up to 110GHz)

Advantage

Advantage

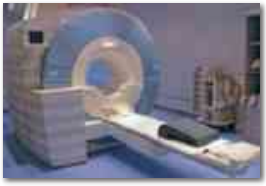
- Low loss flexible & low loss semi-rigid cable assembly manufacturing technologies
- Three-dimensional bending technologies for semi-rigid cable
- Bending & soldering technologies for semi-rigid delay line
- Precision phase matching technology
- IPC J-STD-001 trainer certification
- Integrated multi-pin cable assemblies up to DC~50GHz

Advantage 2

- Provide suitable cable assemblies according to client s applications
- Meet client s requirements of various connector design
- Leading technology of cable assembly phase matching & tracking
- Meet various requirements of three dimensional bending phase match & tracking for semi-rigid cable
- Helpful to solve various problems in system design by high performance products
- Provide generic cabling design of semi-rigid cable & on-site cable assembly phase matching
- Fast & efficient product delivery of sample and bulk orders

Application

- Civil Communication
- RF/Microwave/Millimeter Wave Instrumentation
- Test & Measurement Equipment and Systems
- Aerospace
- Military Industry
- Medical



Product Series

- Flexible Cable Assemblies
- Hand-Flex / Semi-rigid Cable Assemblies
- Test Cable Assemblies
- Multi-pin Connector Assemblies
- Precision RF/Microwave/Millimeter Wave Coaxial Connector & Adapter
- MiGbit® High Speed Cable & Cable Assemblies
- Wide Band Passive Componts(up to 67GHz)
- Test Solutions
- Broadband High Power Amplifier










General Cable Assembly Information

Microwave/RF coaxial cable assembly is done by installing the connectors on a RF coaxial cable via special technology, which is served as a transmission line. Specific requirements must be carefully considered for the proper selection of cable assemblies, including, but not limited to the cable and connector constructions, materials, frequency range, VSWR, insertion loss, mechanical requirements, and any environmental or application restrictions. The design engineering should carefully and precisely evaluate electrical, mechanical and environmental factors in order to optimize the solution for a specific application.

General Characteristics of Cable Assembly

Impedance(Z₀)

Characteristic impedance is generally implied when speaking of the impedance of a cable, connector, or cable assembly. Maximum power transfer and minimum signal reflection occurs when the characteristic impedance of a cable assembly matches that of the other components in the system. If the impedances all match, losses are due only to the attenuation of the transmission line; otherwise there will be additional reflection losses. The characteristic impedance (Zo) is directly related to the ratio of the ratio of the inner and outer conductor diameters, and inversely related to the dielectric constant of the core material (ε). Due to the "skin effect" of RF energy transfer, the important dimensions are the outer diameter of the center conductor, d, and the inner diameter of the outer conductor, D.

$$z_0 = \frac{60}{\sqrt{\varepsilon}} \cdot \ln\frac{D}{d}\ (\Omega) \quad \text{or} \quad z_0 = \frac{138}{\sqrt{Er}} \cdot \lg\frac{D}{d}$$

VSWR

Reflections back toward the input end of a cable assembly are caused by variations in impedance along the length of a cable assembly and can cause energy loss by interaction with incident wave.
Voltage Standing Wave Ratio is the ratio of the maximum to the minimum voltage of a standing wave (which is the instantaneous sum of incident and reflected waves).
Then the VSWR is defined by the following formula:

1) Reflection Coefficient **r** : $= \frac{Z-Z0}{Z+Z0}$ or $= \frac{VSWR-1}{VSWR+1}$

2) VSWR : $VSWR = \frac{1+|r|}{1-|r|}$ or $VSWR = \frac{10^{\frac{RL}{20}}+1}{10^{\frac{RL}{20}}-1}$

Return Loss

Return loss is the ratio (expressed in dB) of the power of the original signal vs. the power of the reflected signal. Thus, return loss indicates the relative size of the reflected signal and, therefore, how perfectly or imperfectly the transmission line is terminated. The equivalent parameter is either the reflection coefficient or VSWR. Return loss can be calculated by reflection coefficient:

$$RL: \quad RL = -20\lg\frac{1}{\Gamma} \quad \text{or} \quad RL = -20\lg\left(\frac{VSWR+1}{VSWR-1}\right)$$

Attenuation (Insertion Loss)

The total insertion loss of cable assembly is comprised of the loss of connectors, cable and mismatch loss.

Velocity of Propagation

Velocity of propagation is the speed of the transmitted signal as compared to the speed of light and is inversely proportional to the square root of the dielectric constant. Material with a lower dielectric constant will yield a higher velocity of propagation.

$$V_p = \frac{1}{\sqrt{\varepsilon}} \times 100\%$$

Delay Time

Delay time is the duration of time that a signal takes from entrance to exit in a coaxial line. The delay time is independent of the frequency and is a function of the dielectric constant and physical length of the transmission

line, usually expressed in nanoseconds (10^{-9} seconds) per foot.

$$T_d = \frac{L}{C} \times \sqrt{\varepsilon} = \frac{L}{V_p \times C}$$

Phase

Applications such as antenna may require cable assemblies to have intended velocity of propagation and transmission time, and this is determined by a specific electrical length of cable assembly instead of physical length. Phase is used calculate the electrical length.

$$\Phi = \frac{L}{300 \times V_p} \times f \times 360^{\circ} \quad (f: \text{frequency, GHz})$$

Phase Matching

Phase matching denotes two or more cable assemblies with the same phase length, or electrical length. Phase matching can be absolute, as compared to a predetermined value, or relative, where the assemblies are matched to each other.

Phase Stability over Flexure

Phase stability over flexure is the phase shift by bending the cable, it can be significantly affected by the bending method and bend radius, which should be taken into account when the degree of change is a concern.

Phase Stability over Temperature

The electrical length for a given frequency will "shift" as a result of environmental changes. The degree of change is based on mechanical stresses, connector torque and thermal conditions.

The degree of phase shift as a result of temperature variation can be calculated by using the following formula:

$$PPM = \frac{\Delta\Phi}{\Phi} * 10^{6}$$

$\Delta\Phi$ —— Phasechangevalue in degree

Φ Electrical length of cable assembly in degree

PPM Phase changed part per million

Phase Tracking

Phase tracking is the ability of multiple cable assemblies to closely reproduce their phase characteristics relative to each other over a range of temperature, flexure, or both. Phase tracking is essentially a measure of the assemblies' mechanical consistency. Thermal conditioning of coaxial cable may improve tracking characteristics.

Average Power Handling

The cable attenuation generates heat between the center and outer conductor. Power handling capability is reflected in cable capability of withstanding the heat. Power handling is affected by two main factors, one is cable max operation temperature, and another is cable attenuation. Power handling will be higher with better cable attenuation and smaller heat. Under the same conditions, power handling will be higher with higher operation temperature the cable can withstand.

Average power handling is greatly affected by altitude, temperature and VSWR. Average power handling reduces by increase of altitude, temperature and VSWR. Their respective impacts on power handling can be checked by Table 1, Table 2 and Table 3.

Table 1

Reduction Coefficient of Power Handling Influenced by Altitude

Altitude		Average Power Handling Reduction Coefficient	Peak Power Handling Reduction Coefficient
Inch	Meter		
0	0	1	1
10,000	3,048	0.90	0.50
20,000	6,096	0.79	0.20
30,000	9,144	0.68	0.14
40,000	12,192	0.58	0.10
50,000	15,240	0.48	0.08
60,000	18,288	0.38	0.06
70,000	21,336	0.29	0.05

Table 2

Reduction Coefficient of Power Handling Influenced by Temp.

Temperature	Power Handling Reduction Coefficient
℃	
25	1
50	0.83
85	0.66
100	0.58
125	0.43
150	0.28
200	0.15

Table 3

Reduction Coefficient of Power Handling Influenced by VSWR

VSWR (:1)	Power Handling Coefficient	VSWR (:1)	Power Handling Coefficient
1.00	1.0000	1.55	0.6766
1.05	0.9529	1.60	0.6602
1.10	0.9112	1.65	0.6449
1.15	0.8738	1.70	0.6306
1.20	0.8403	1.75	0.6173
1.25	0.8100	1.80	0.6049
1.30	0.7825	1.85	0.5933
1.35	0.7575	1.90	0.5824
1.40	0.7347	1.95	0.5722
1.45	0.7137	2.00	0.5625
1.50	0.6944	2.05	0.5534

Table 4: VSWR, Return Loss, Matching Loss and Matching Efficiency

VSWR	Return loss (dB)	Reflection	Matching loss (dB)	Matching Efficiency (%)	VSWR	Return loss (dB)	Reflection	Matching loss (dB)	Matching Efficiency (%)
1.01	46.06	0.0050	0.000	100.0	1.55	13.32	0.2157	0.207	95.35
1.02	40.09	0.0099	0.000	99.99	1.60	12.74	0.2308	0.238	94.67
1.03	36.61	0.0148	0.001	99.98	1.65	12.21	0.2453	0.270	93.98
1.04	34.15	0.0196	0.002	99.96	1.70	11.73	0.2593	0.302	93.28
1.05	32.26	0.0244	0.003	99.94	1.75	11.29	0.2727	0.336	92.56
1.06	30.71	0.0291	0.004	99.92	1.80	10.88	0.2857	0.370	91.84
1.07	29.42	0.0338	0.005	99.89	1.85	10.51	0.2982	0.405	91.10
1.08	28.30	0.0385	0.007	99.85	1.90	10.16	0.3103	0.440	90.37
1.09	27.32	0.0431	0.008	99.81	1.95	9.84	0.3220	0.475	89.63
1.10	26.44	0.0476	0.010	99.77	2.00	9.54	0.3333	0.511	88.89
1.11	25.66	0.0521	0.012	99.73	2.10	9.00	0.3548	0.584	87.41
1.12	24.94	0.0566	0.014	99.68	2.20	8.52	0.3750	0.658	85.94
1.13	24.29	0.0610	0.016	99.63	2.30	8.09	0.3939	0.732	84.48
1.14	23.69	0.0654	0.019	99.57	2.40	7.71	0.4118	0.807	83.04
1.15	23.13	0.0698	0.021	99.51	2.50	7.36	0.4286	0.882	81.63
1.16	22.61	0.0741	0.024	99.45	2.60	7.04	0.4444	0.956	80.25
1.17	22.12	0.0783	0.027	99.39	2.70	6.76	0.4595	1.030	78.89
1.18	21.66	0.0826	0.030	99.32	2.80	6.49	0.4737	1.104	77.56
1.19	21.23	0.0868	0.033	99.25	2.90	6.25	0.4872	1.176	76.27
1.20	20.83	0.0909	0.036	99.17	3.00	6.02	0.5000	1.249	75.00
1.21	20.44	0.0950	0.039	99.10	3.10	5.81	0.5122	1.321	7377
1.22	20.08	0.0991	0.043	99.02	3.20	5.62	0.5238	1.393	72.56
1.23	19.73	0.1031	0.046	98.94	3.30	5.43	0.5349	1.464	71.39
1.24	19.40	0.1071	0.050	98.85	3.40	5.26	0.5455	1.534	70.25
1.25	19.08	0 .1111	0.054	98.77	3.50	5.11	0.5556	1.603	69.14
1.26	18.78	0.1150	0.058	98.68	3.60	4.96	0.5652	1.672	68.05
1.27	18.49	0.1189	0.062	98.59	3.70	4.81	0.5745	1.739	67.00
1.28	18.22	0.1228	0.066	98.49	3.80	4.68	0.5833	1.807	65.97
1.29	17.95	0.1266	0.070	98.40	3.90	4.56	0.5918	1.873	64.97
1.30	17.69	0.1304	0.074	98.30	4.00	4.44	0.6000	1.938	64.00
1.31	17.45	0.1342	0.079	98.20	4.10	4.32	0.6078	2.003	63.05
1.32	17.21	0.1379	0.083	98.10	4.20	4.22	0.6154	2.067	62.13
1.33	16.98	0.1416	0.088	97.99	4.30	4.12	0.6226	2.130	61.23
1.34	16.75	0.1453	0.093	97.89	4.40	4.02	0.6296	2.193	60.36
1.35	16.54	0.1489	0.097	97.78	4.50	3.93	0.6364	2.255	59.50
1.36	16.33	0.1525	0.102	97.67	4.60	3.84	0.6429	2.316	58.67
1.37	16.13	0.1561	0.107	97.56	4.70	3.75	0.6491	2.376	57.86
1.38	15.94	0.1597	0.112	97.45	4.80	3.67	0.6552	2.436	57.07
1.39	15.75	0.1632	0.117	97.34	4.90	3.60	0.6610	2.494	56.31
1.40	15.56	0.1667	0.122	97.22	5.00	3.52	0.6667	2.552	55.56
1.41	15.38	0.1701	0.127	97.11	5.10	3.45	0.6721	2.611	54.82
1.42	15.21	0.1736	0.133	96.99	5.20	3.38	0.6774	2.667	54.11
1.43	15.04	0.1770	0.138	96.87	5.30	3.32	0.6825	2.724	53.41
1.44	14.88	0.1803	0.143	96.75	5.40	3.25	0.6875	2.779	52.73
1.45	14.72	0.1837	0.149	96.63	5.50	3.19	0.6923	2.834	52.07
1.46	14.56	0.1870	0.155	96.50	5.60	3.14	0.6970	2.889	51.42
1.47	14.41	0.1903	0.160	96.38	5.70	3.08	0.7015	2.942	50.79
1.48	14.26	0.1935	0.166	96.25	5.80	3.03	0.7059	2.996	50.17
1.49	14.12	0.1968	0.171	96.13	5.90	2.97	0.7101	3.048	49.57
1.50	13.98	0.2000	0.177	96.00	6.00	2.92	0.7143	3.100	48.98

Table 5: Coaxial Connectors Frequency

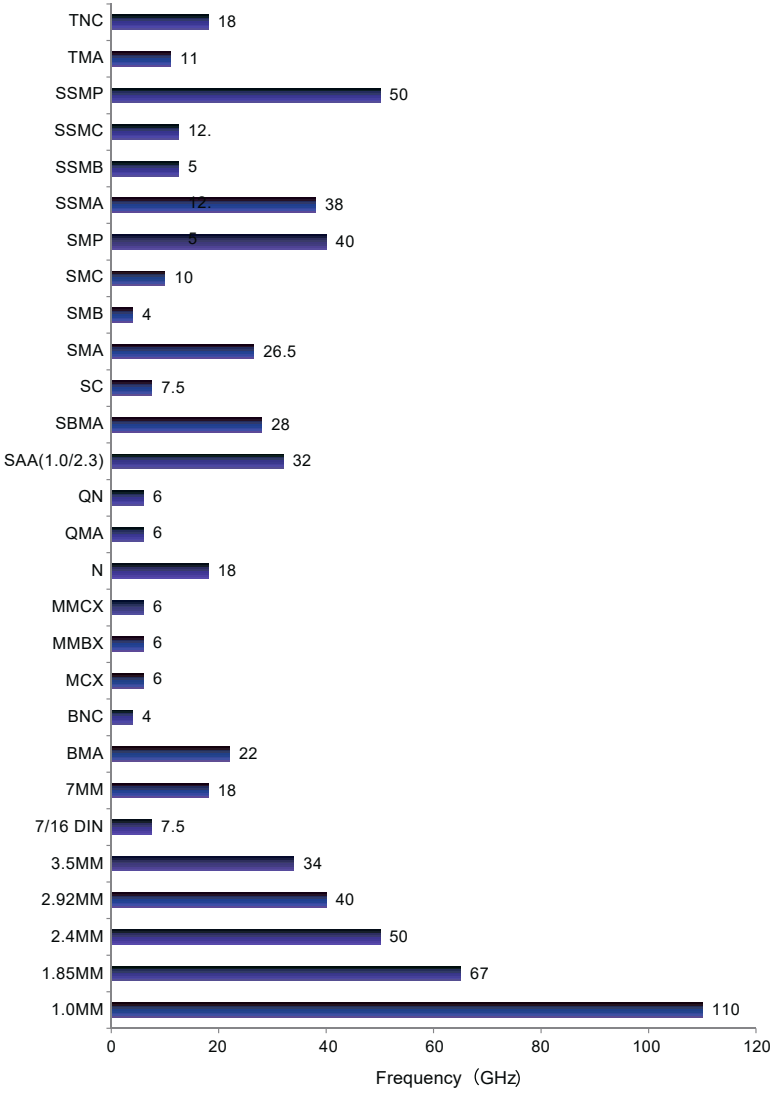
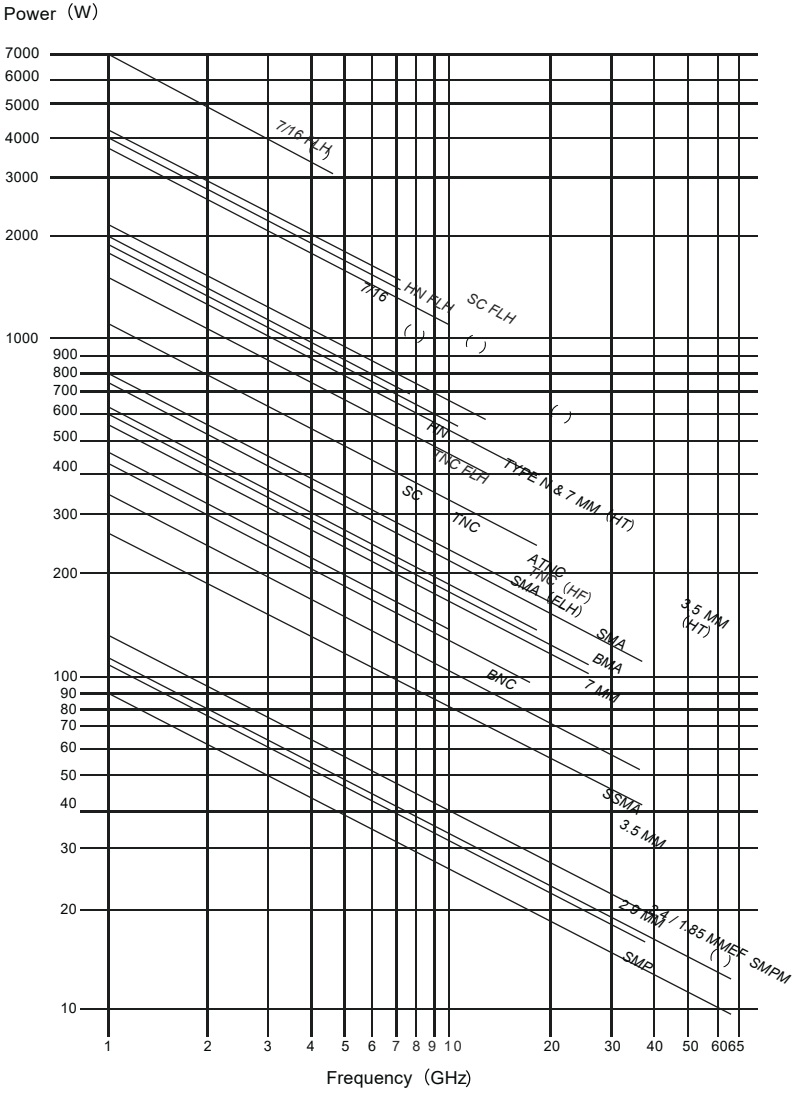


Table 6: Coaxial Connector Average Power Map



Care & Handling Instruction

SRFS microwave cable assemblies of all types offer a long service life providing they are treated with the appropriate care and attention. Microwave cable assemblies are high precision system components and require proper handling in order to ensure that measured performance values are maintained.

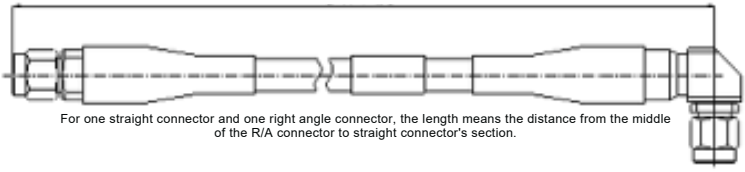
To achieve the maximum installed performance the following guidelines should be followed.

- Assemblies should remain in their original packaging for delivery and storage. Storage temperature should between 50 °C and +80 °C and the relative humidity should not exceed 85%.
- Carefully unpack assemblies before installation. Avoid kinking cables when straightening from a coil or reel.
- Ensure that the surroundings are clean and free of dust, dirt and any other particles that could enter unsealed connector interfaces.
- Use protective caps to prevent contamination whenever connectors are unmated.
- Where interfaces are contaminated, particles can be removed with dry, oil-free compressed air. Please use eye-protection. Interfaces can be cleaned with dry cotton swabs. Do not use hard hand tools or solvents. Do not blow into interfaces or use normal compressed-air.
- Choose the installation routing using the largest bend radii possible. Small bend radii may affect electrical performance. Exceeding the specified limits during the installation process could cause a permanent degradation.
- Avoid twisting microwave cable assemblies. Torsion of this type of assembly can alter the relative diameters of cable layers and affects the electrical characteristics. Exceeding the limit of 10° per metre during installation process could cause a permanent degradation.
- Assemblies should be fixed in place without excess pressure. The use of cable ties should be avoided where possible, as they can easily exert more force than this. If cable ties must be used then they should be as wide as possible and still allow movement of the cable. Avoid placing fixings at regular intervals.
- Examine interfaces for damage and/or contamination before mating.
- Discharge connectors before mating or ensure that they are connected to a suitable ground.

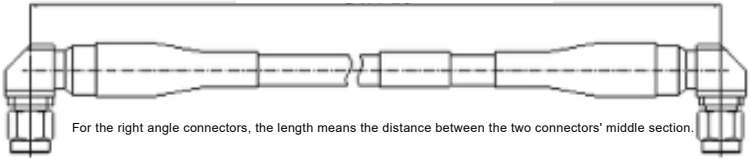
- When mating connectors with a screwed interface always hold the connector bodies and turn only the coupling nut. This avoids twisting the cable and ensures minimum wear on the connector pins.
- Do not exceed the specified torque.
- Personnel handling testing instruments should always wear a wrist, leg or ankle strap which connected to work bench mat. The work bench mat should be connected via a 1MΩ protective resistor directly to a ground. When the cable assembly is connected to the analyzer or any other ESD sensitive instruments, the inner conductor should always be properly grounded.

Length of the Assemblies

For the straight connectors, the length means the distance between the two sections of the two connectors.



For one straight connector and one right angle connector, the length means the distance from the middle of the R/A connector to straight connector's section.



For the right angle connectors, the length means the distance between the two connectors' middle section.

Common Connector Codes List

Connector Type	Code	Frequency (GHz)	Connector Type	Code	Frequency (GHz)
1.0mm M	1Y	110	MCX F	28	12
1.0mm F	1Z	110	SSMA M	25	38
1.85mm M	0P	67	SSMA F	26	38
1.85mm F	0Y	67	SMP M	36	40
2.4mm M	39	50	SMP F	37	40
2.4mm F	48	50	SMP RA F	38	18
2.92mm M	40	40	SSMP F	24	40
2.92mm F	46	40	SSMP M	0B	40
2.92mm RA F	52	40	SSMP RA M	0C	18
3.5mm M	47	34	SBMA M	66	18
3.5mm F	60	34	SBMA RA M	67	18
SMA M	01	27	SBMA F	68	18
SMA F	02	27	BNC M	15	4
SMA RA M	05	18	BNC F	16	4
SMA RA F	51	18	7/16 M	49	6
N M	07	18	7/16 F	45	6
N F	08	18	7/16 RA M	53	6
N RA M	50	16	NMD3.5 F	83	34
TNC M	11	18	NMD2.4 F	76	50
TNC F	12	18	NMD2.92 M	0V	40
TNC RA M	55	11	NMD2.92 F	0U	40
MCX M	27	12	NMD1.85 F	1V	67

A series Low Loss Flexible Cable Assemblies with Excellent Phase Stability vs. Flexure & Temperature

（Excellent phase stability over positive temp., 220ppm@+22~+125℃,

well suited for high power transmitting equipment）

BENEFITS:

★ Excellent & consistent mechanical & electrical performance

★ Low loss, low VSWR & high power handling

★ High shielding effectiveness

★ Phase stability over positive temp.

APPLICATIONS:

★ RF, microwave & millimeter wave test systems

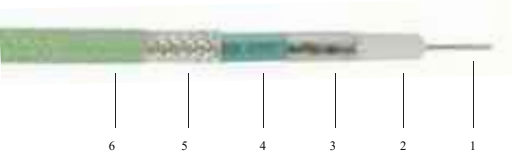
★ Airborne, ground & sea-based systems, both commercial & military

Construction

A02 Low Loss Flexible Cable Assembly with Excellent Phase Stability vs. Flexure & Temp.

220ppm@+22~+125 ,well suited for transmitters application

Construction



	Description	Diameter (mm)	Material
1	Center conductor	1.29	Solid SPC
2	Dielectric	3.68	Expended PTFE Tape
3	Outer conducter	3.86	SPC Strip
4	Interlayer	4.01	Aluminum Polyester
5	Outer Shield	4.42	SPC Braid
6	Jacket	4.95	FEP

Features & Advantage

- High shielding effectiveness
- Cost effective

Electrical

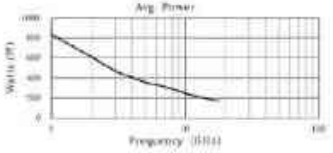
- Outstanding phase stability over positive temp.
- Low loss, high power handling

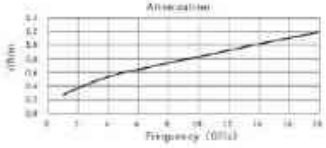
Mechanical & Environmental

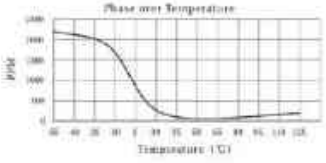
Bend Radius: installation (mm)	25.4
Bend Radius: repeated (mm)	50.8
Weight (g/m)	65.5
Temp, Operating (°C)	-5.5~+200

Impedance (Ohms)	50	Shielding Effectiveness(dB)	> 45
Velocity of Propagation(%)	80	Cut-Off Frequency(GHz)	30
Delay Time (ns/m)	4.14	Flex. Phase Stability*	±3.6°@18GHz
Capacitance (pF/m)	82	Temp. Phase Stability PPM/+22~+125°C	220
Voltage Withstand (V)	2000	Amplitude Stability*(dB@18GHz)*	< ±0.05

* Phase and amplitude stability test method: In wrap the cable 360° around a mandrel which radius is 10 times the cable diameter



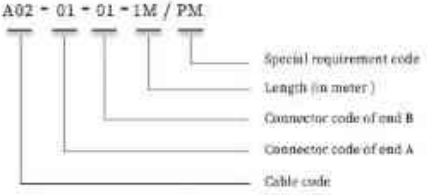




Attenuation (Typical@25°C) & Power(20°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18
Attenuation (dB/m)	0.27	0.37	0.46	0.54	0.60	0.64	0.74	0.83	0.92	1.01	1.10	1.18
Avg. Power (W)	834	606	469	404	356	334	289	244	218	198	182	169

Part Numbering Code



"If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armr
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type	SMA Male
P/N	SMA-J-02-00
Code	01
Mat.	Stainless steel
Freq.	18GHz
VSWR	1.20:1

Type	SMA Female
P/N	SMA-K-03-00A
Code	02
Mat.	Stainless steel
Freq.	18GHz
VSWR	1.25:1

Type	SMA Male RA
P/N	SMA-JW-01-00
Code	05
Mat.	Stainless steel
Freq.	18GHz
VSWR	1.30:1

Type	3.5 Male
P/N	3.5-J-02-00
Code	47
Mat.	Stainless steel
Freq.	18GHz
VSWR	1.20:1

Type	2.92 Male
P/N	2.92-J-04-00
Code	40
Mat.	Stainless steel
Freq.	18GHz
VSWR	1.20:1

Type	N Male
P/N	N-J-04-00A
Code	07
Mat.	Stainless steel
Freq.	18GHz
VSWR	1.25:1

Type	N Male RA
P/N	N-JW-04-00
Code	50
Mat.	Stainless steel
Freq.	16GHz
VSWR	1.30:1

Type	N Female
P/N	N-K-02-00
Code	08
Mat.	Stainless steel
Freq.	18GHz
VSWR	1.40:1

Type	TNC Male
P/N	TNC-J-04-00
Code	11
Mat.	Stainless steel
Freq.	18GHz
VSWR	1.25:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(1)			
	Connector 1	Connector 2	m	DC~2.5	2.5~6	6~12	12~18	DC~2.5	2.5~6	6~12	12~18
				GHz				GHz			
A02-01-01-0.5M	SMA Male	SMA Male	0.5	0.5	0.6	0.8	1.0	1.10	1.10	1.15	1.15
A02-01-01-1M	SMA Male	SMA Male	1.0	0.7	0.9	1.2	1.6	1.10	1.20	1.25	1.25
A02-01-01-1.5M	SMA Male	SMA Male	1.5	0.9	1.2	1.7	2.2	1.10	1.20	1.25	1.25
A02-01-02-0.5M	SMA Male	SMA Female	0.5	0.5	0.6	0.8	1.0	1.10	1.20	1.25	1.30
A02-01-02-1M	SMA Male	SMA Female	1.0	0.7	0.9	1.2	1.6	1.10	1.20	1.25	1.30
A02-01-02-1.5M	SMA Male	SMA Female	1.5	0.9	1.2	1.7	2.2	1.15	1.20	1.25	1.30
A02-01-07-0.5M	SMA Male	N Male	0.5	0.5	0.6	0.8	1.0	1.10	1.20	1.25	1.30
A02-01-07-1M	SMA Male	N Male	1.0	0.7	0.9	1.2	1.6	1.10	1.20	1.25	1.30
A02-01-07-1.5M	SMA Male	N Male	1.5	0.9	1.2	1.7	2.2	1.10	1.20	1.25	1.30
A02-07-07-0.5M	N Male	N Male	0.5	0.5	0.6	0.8	1.0	1.10	1.20	1.25	1.30
A02-07-07-1M	N Male	N Male	1.0	0.7	0.9	1.2	1.6	1.10	1.20	1.25	1.30
A02-07-07-1.5M	N Male	N Male	1.5	0.9	1.2	1.7	2.2	1.10	1.20	1.25	1.30
A02-07-50-1M	N Male	N Male RA	1.0	0.9	1.2	1.7	2.2(18G)	1.10	1.20	1.30	1.35(18G)
A02-07-50-1.5M	N Male	N Male RA	1.5	1.1	1.6	2.2	2.7(18G)	1.15	1.20	1.30	1.35(18G)
A02-07-50-2M	N Male	N Male RA	2.0	1.3	1.7	2.6	3.3(18G)	1.15	1.20	1.30	1.35(18G)

A04I Low Loss Flexible Cable Assembly with Excellent Phase Stability vs. Flexure & Temp.

220ppmm@+22~+125 C, well suited for transmitter application

Construction

	Description	Diameter(mm)	Material
1	Center conductor	2.26	Solid SPC
2	Dielectric	6.35	Expanded PTFE Tape
3	Outer conductor	6.48	SPC Strip
4	Interlayer	6.63	Aluminum Polyester
5	Outer shield	7.04	SPC Braid
6	Jacket	7.65	FEP

Features & Advantage

- High shielding effectiveness
- Cost effective
- Outstanding phase stability over positive temp.
- Low loss, high power handling

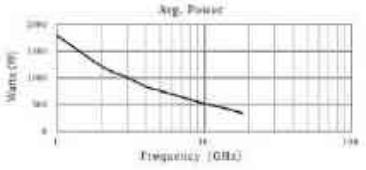
Mechanical & Environmental

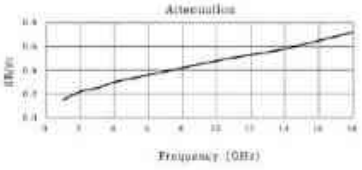
Bend Radius: installation (mm)	38.1
Bend Radius: repeated (mm)	76.2
Weight (g/m)	113
Temp. Operating (°C)	-55~+200

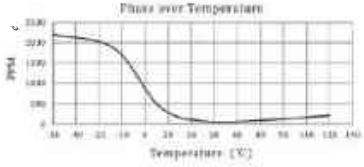
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	< -90
Velocity of Propagation(%)	83	Cut-Off Frequency(GHz)	18
Delay Time (ns/m)	4.14	Flex. Phase Stability*	±5.4°@18GHz
Capacitance (pf/m)	82	Temp. Phase Stability PPM/+22~+125°C	220
Voltage Withstand (V)	3000	Amplitude Stability*(dB@18GHz)*	< ±0.05

* Phase and amplitude stability test method: to wrap the cable 360° around a mandrel which radius is 10 times the cable diameter







Attenuation (Typical@25°C) & Power(20°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18
Attenuation (dB/m)	0.18	0.22	0.25	0.30	0.33	0.36	0.42	0.48	0.53	0.58	0.65	0.72
Avg. Power (W)	1785	1217	1003	828	760	697	597	520	471	430	384	347

Connector & Assembly Information

Part Numbering Code

A04I - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J-01-00D
Code 01
Mat. Stainless Steel
Freq. 18GHz
VSWR 1.25:1

Type SMA Female
P/N SMA-K-01-00A
Code 02
Mat. Stainless Steel
Freq. 18GHz
VSWR 1.25:1

Type N Male
P/N N-J-01-00A
Code 07
Mat. Stainless Steel
Freq. 18GHz
VSWR 1.25:1

Type N Female
P/N N-K104-02
Code 08
Mat. Stainless Steel
Freq. 18GHz
VSWR 1.30:1

Type TNC Male
P/N TNC-J-01-00
Code 11
Mat. Stainless Steel
Freq. 18GHz
VSWR 1.25:1

Type L29 Male
P/N L29-J-01-00A
Code 49
Mat. Brass
Freq. 6GHz
VSWR 1.20:1

Type L29 Male RA
P/N L29-JW-01-00
Code 53
Mat. Brass
Freq. 6GHz
VSWR 1.30:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~2.5	2.5~6	6~12	12~18	DC~2.5	2.5~6	6~12	12~18
				GHz				GHz			
A04I-01-01-0.5M	SMA Male	SMA Male	0.5	0.4	0.5	0.7	0.8	1.15	1.20	1.25	1.30
A04I-01-01-1M	SMA Male	SMA Male	1.0	0.5	0.7	1.0	1.2	1.15	1.20	1.25	1.30
A04I-01-01-1.5M	SMA Male	SMA Male	1.5	0.7	0.9	1.3	1.6	1.15	1.20	1.25	1.30
A04I-01-07-0.5M	SMA Male	N Male	0.5	0.4	0.5	0.7	0.8	1.15	1.20	1.25	1.30
A04I-01-07-1M	SMA Male	N Male	1.0	0.5	0.7	1.0	1.2	1.15	1.20	1.25	1.30
A04I-01-07-1.5M	SMA Male	N Male	1.5	0.7	0.9	1.3	1.6	1.15	1.20	1.25	1.30
A04I-07-07-0.5M	N Male	N Male	0.5	0.4	0.5	0.7	0.8	1.15	1.20	1.25	1.30
A04I-07-07-1M	N Male	N Male	1.0	0.5	0.7	1.0	1.2	1.15	1.20	1.25	1.30
A04I-07-07-1.5M	N Male	N Male	1.5	0.7	0.9	1.3	1.6	1.15	1.20	1.25	1.30
A04I-07-08-0.5M	N Male	N Female	0.5	0.4	0.5	0.7	0.8	1.20	1.25	1.35	1.50
A04I-07-08-1M	N Male	N Female	1.0	0.5	0.7	1.0	1.2	1.20	1.25	1.35	1.50
A04I-07-08-1.5M	N Male	N Female	1.5	0.7	0.9	1.3	1.6	1.20	1.25	1.35	1.50
A04I-11-11-0.5M	TNC Male	TNC Male	0.5	0.4	0.5	0.7	0.8	1.15	1.20	1.25	1.30
A04I-11-11-1M	TNC Male	TNC Male	1.0	0.5	0.7	1.0	1.2	1.15	1.20	1.25	1.30

A11 Super High Power Handling Cable Assembly

Average power: 3340W@1GHz, very suited for high-power transmitter applications

Construction

	Description	Diameter(mm)	Material
1	Center conductor	4.04	Stranded SPC
2	Dielectric	10.67	Expanded PTFE Tape
3	Outer conductor	10.97	SPC Strip
4	Outer shield	11.48	SPC Braid
5	Jacket	12.19	FEP

Features & Advantage

- Super high power handling, low loss
- Very flexible with stranded conductor structure
- High shielding effectiveness
- Good phase and amplitude stability

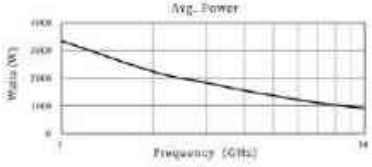
Mechanical & Environmental

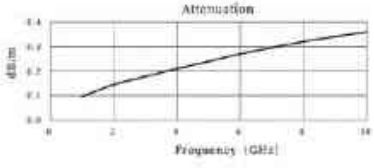
Bend Radius: installation (mm)	69.85
Bend Radius: repeated (mm)	139.7
Weight (g/m)	293
Temp, Operating (°C)	-55 ~ +200

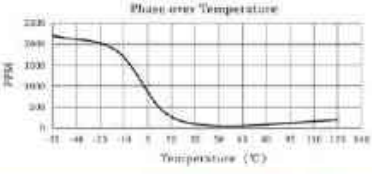
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	> 90
Velocity of Propagation(%)	82.5	Cut-Off Frequency(GHz)	10
Delay Time (ns/m)	4.04	Max. Phase Stability*	0.4°@10GHz
Capacitance (pf/m)	83.4	Temp. Phase Stability PPM/+22~+125°C	220
Voltage Withstand (V)	6000	Amplitude Stability*(dB@10GHz)*	<±0.50

* Phase and amplitude stability test method: To wrap the cable 360° around a mandrel with a radius as 20 times the cable diameter







Attenuation (Typical@25°C) & Power(20°C, Sea Level)

Frequency (GHz)	0.4	1	2	3	4	5	6	8	10
Attenuation (dB/m)	0.08	0.10	0.15	0.18	0.21	0.24	0.27	0.32	0.36
Avg. Power (W)	5450	3340	2254	1838	1551	1370	1214	1028	910

Connector & Assembly Information

Part Numbering Code

A11 - 07 - 07 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type	N Male
P/N	N-J-02-00
Code	07
Mat.	Stainless Steel
Freq.	10GHz
VSWR	1.20:1

Type	N Female
P/N	N-K-02-00
Code	08
Mat.	Stainless Steel
Freq.	10GHz
VSWR	1.20:1

Type	SC Male
P/N	SC-J-02-00
Code	43
Mat.	Brass
Freq.	10GHz
VSWR	1.20:1

Type	129 Male
P/N	129-J-02-00
Code	49
Mat.	Brass
Freq.	7.5GHz
VSWR	1.20:1

Note: Customized connectors are available on request

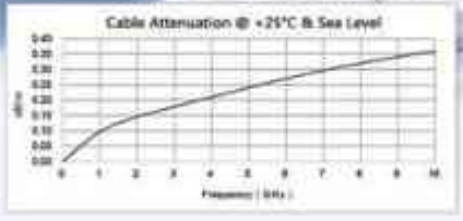
Standard Type & Technical Specifications (Fast delivery within 1 week)

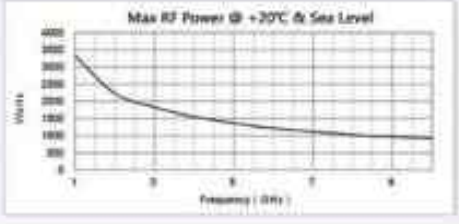
Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~2.5	2.5~6	6~7.5	7.5~10	DC~2.5	2.5~6	6~7.5	7.5~10
				GHz				GHz			
A11-07-07-0.1M	N Male	N Male	0.2	0.2	0.4	0.4	0.5	1.20	1.25	1.25	1.30
A11-07-07-0.3M	N Male	N Male	0.3	0.3	0.5	0.5	0.6	1.20	1.25	1.25	1.30
A11-07-07-1M	N Male	N Male	1.0	0.5	0.6	0.6	0.8	1.20	1.25	1.25	1.30
A11-07-07-1.5M	N Male	N Male	1.5	0.6	0.8	0.8	1.0	1.20	1.25	1.25	1.30
A11-07-07-2M	N Male	N Male	2.0	0.7	0.9	1.0	1.2	1.20	1.25	1.25	1.30
A11-07-07-3M	N Male	N Male	3.0	1.0	1.2	1.3	1.6	1.20	1.25	1.25	1.30
A11-49-49-0.1M	7/16 Male	7/16 Male	0.1	0.2	0.4	0.4		1.20	1.25	1.30	
A11-49-49-0.3M	7/16 Male	7/16 Male	0.3	0.3	0.5	0.5		1.20	1.25	1.30	
A11-49-49-1M	7/16 Male	7/16 Male	1.0	0.5	0.6	0.6		1.20	1.25	1.30	
A11-49-49-1.5M	7/16 Male	7/16 Male	1.5	0.6	0.8	0.8		1.20	1.25	1.30	
A11-49-49-2M	7/16 Male	7/16 Male	2.0	0.7	0.9	1.0		1.20	1.25	1.30	
A11-49-49-3M	7/16 Male	7/16 Male	3.0	1.0	1.2	1.3		1.20	1.25	1.30	

A11 Series DC~10GHz Ultra Low Loss
Super High Power Cable Assemblies

Advantages & Features:

- Frequency up to 10 GHz
- Power Handling: 3340 W @ 1 GHz, 910 W @ 10 GHz
- Cable Attenuation: 0.10 dB/m Typ. @ 1 GHz
  0.36 dB/m Typ. @ 10 GHz
- Double Shielded with Shielding Effectiveness: < - 90 dB
- Reinforced Passivated Stainless Steel Connectors
- Robust Construction with Advanced Strain Relief Design
- 7/16 & N Type Connectors Available





A11 Cable Assemblies (N M-N M DC-9.4GHz , 1Meter)

B Series --Ultra Low Loss Flexible Cable Assemblies with Excellent Phase Stability vs. Flexure & Temperature

（Excellent phase stability over wide temp. range, 500ppm@-55~+85℃）

BENEFITS:

★ Excellent & consistent mechanical & electrical performance
★ Low loss, low VSWR & high power handling
★ High shielding effectiveness
★ Phase stable over flexure & wide temp. range(-55~+85°C)
★ Good phase tracking performance

Applications

★ RF, microwave & millimeter wave test systems
★ Airborne, ground & sea-based systems, both commercial & military

B02 Ultra Low Loss Flexible Cable Assembly
with Excellent Phase Stability over Flexure & Temp.

500ppm@-55~+85℃, ultra low loss 2.21dB@40GHz, suitable for wide temp. phased array radar applications

Construction

	Description	Diameter(mm)	Material
1	Center conductor	1.02	Solid SPC
2	Dielectric	2.80	LD-PTFE
3	Outer conductor	3.00	SPC Strip
4	Outer shield	3.40	SPC Braid
5	Jacket	3.70	FEP

Features & Advantage

- Ultra low loss, 2.21dB@40GHz
- Excellent phase stability over flexure & wide temp. range
- Outstanding and consistent mechanical & electrical performance

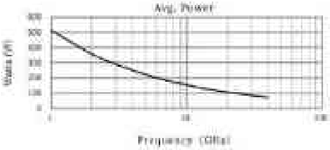
Mechanical & Environmental

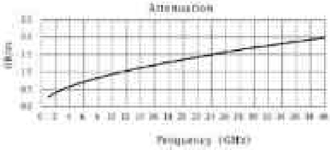
Bend Radius installation (mm)	18
Bend Radius repeated (mm)	36
Weight (g/m)	33
Temp. Operating (℃)	-55~+165

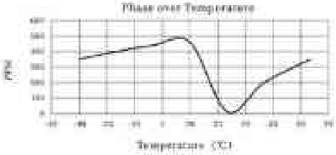
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	<-90
Velocity of Propagation(%)	82	Cut-Off Frequency(GHz)	48
Delay Time (ns/m)	4.115	Flex. Phase Stability*	±3°@40GHz
Capacitance (pF/m)	80.6	Temp. Phase Stability PPM(-55~+85℃)	500
Voltage Withstand (V)	1200	Amplitude Stability*(dB@18GHz)*	<±0.10

*Phase and amplitude stability test method: to wrap the cable 360° around a mandrel which radius is 10 times the cable diameter







Attenuation (Typical@25℃) & Power(40℃, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40
Attenuation (dB/m)	0.32	0.46	0.56	0.65	0.73	0.80	0.93	1.05	1.15	1.25	1.34	1.43	1.76	1.88	2.21
Avg. Power (W)	511	359	290	251	223	203	175	156	141	130	121	114	93	86	74

Part Numbering Code

B02 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type	SMA Male
P/N	SMA-J-50-00
Code	01
Mat.	Stainless steel
Freq.	26.5GHz
VSWR	1.30:1

Type	3.5 Male
P/N	3.5-J-30-00
Code	47
Mat.	Stainless steel
Freq.	34GHz
VSWR	1.30:1

Type	2.92 Male
P/N	2.92-J-25-00
Code	404
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Type	2.92 Female
P/N	2.92-K-53-00
Code	46
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Type	2.4 Male
P/N	2.4-J-14-00
Code	39
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.25:1

Type	2.4 Female
P/N	2.4-K-15-00
Code	48
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.25:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation (Insertion Loss) dB				VSWR(≤)			
	Connector A	Connector B	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
				GHz				GHz			
B02-01-01-0.5M	SMA Male	SMA Male	0.5	0.7	1.1	1.4		1.30	1.30	1.25	
B02-01-01-1M	SMA Male	SMA Male	1.0	1.1	1.9	2.3		1.30	1.30	1.30	
B02-01-01-1.5M	SMA Male	SMA Male	1.5	1.6	2.6	3.3		1.30	1.30	1.30	
B02-39-39-0.5M	2.4 Male	2.4 Male	0.5	0.7	1.1	1.4	1.7	1.30	1.25	1.25	1.30
B02-39-39-1M	2.4 Male	2.4 Male	1.0	1.1	1.9	2.3	2.9	1.20	1.25	1.25	1.30
B02-39-39-1.5M	2.4 Male	2.4 Male	1.5	1.6	2.6	3.3	4.0	1.20	1.25	1.25	1.30
B02-39-48-0.5M	2.4 Male	2.4 Female	0.5	0.7	1.1	1.4	1.7	1.20	1.25	1.25	1.30
B02-39-48-1M	2.4 Male	2.4 Female	1.0	1.1	1.9	2.3	2.9	1.20	1.25	1.25	1.30
B02-39-48-1.5M	2.4 Male	2.4 Female	1.5	1.6	2.6	3.3	4.0	1.20	1.25	1.25	1.30
B02-48-48-0.5M	2.4 Female	2.4 Female	0.5	0.7	1.1	1.4	1.7	1.20	1.25	1.25	1.30
B02-48-48-1M	2.4 Female	2.4 Female	1.0	1.1	1.9	2.3	2.9	1.20	1.25	1.25	1.30
B02-48-48-1.5M	2.4 Female	2.4 Female	1.5	1.6	2.6	3.3	4.0	1.20	1.25	1.25	1.30
B02-404-404-0.5M	2.92 Male	2.92 Male	0.5	0.7	1.1	1.4	1.7	1.20	1.25	1.25	1.30
B02-404-404-1M	2.92 Male	2.92 Male	1.0	1.1	1.9	2.3	2.9	1.20	1.25	1.25	1.30
B02-404-404-1.5M	2.92 Male	2.92 Male	1.5	1.6	2.6	3.3	4.0	1.20	1.25	1.25	1.30
B02-404-46-0.5M	2.92 Male	2.92 Female	0.5	0.7	1.1	1.4	1.7	1.20	1.25	1.25	1.30
B02-404-46-1M	2.92 Male	2.92 Female	1.0	1.1	1.9	2.3	2.9	1.20	1.25	1.25	1.30
B02-404-46-1.5M	2.92 Male	2.92 Female	1.5	1.6	2.6	3.3	4.0	1.20	1.25	1.25	1.30
B02-46-46-0.5M	2.92 Female	2.92 Female	0.5	0.7	1.1	1.4	1.7	1.20	1.25	1.25	1.30
B02-46-46-1M	2.92 Female	2.92 Female	1.0	1.1	1.9	2.3	2.9	1.20	1.25	1.25	1.30
B02-46-46-1.5M	2.92 Female	2.92 Female	1.5	1.6	2.6	3.3	4.0	1.20	1.25	1.25	1.30

B10 Ultra Low Loss Flexible Cable Assembly with Excellent Phase Stability over Flexure & Temp.

500ppm@-55~+85℃, ultra low loss 0.66dB@18GHz, suitable for every application

Construction

	Description	Diameter(mm)	Material
1	Center conductor	2.30	Solid SPC
2	Dielectric	6.25	LD-PTFE
3	Outer conductor	6.50	SPC Strip
4	Outer shield	6.91	SPC Braid
5	Jacket	7.50	FEP

Features & Advantage

- Ultra low loss, 0.66dB@18GHz
- Light weight with 130g/m
- Good phase stability over flexure & wide temp. range
- Small overall diameter of 7.50mm

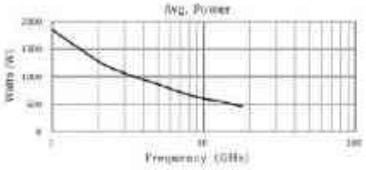
Mechanical & Environmental

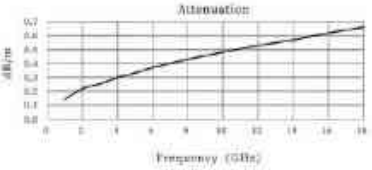
Bend Radius: installation (mm)	38.1
Bend Radius: repeated (mm)	76.2
Weight (g/m)	130
Temp, Operating (°C)	-55~+200

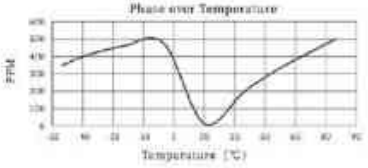
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	<-90
Velocity of Propagation (%)	84.5	Cut-Off Frequency (GHz)	18
Delay Time (ns/m)	4.1	Flex. Phase Stability*	±2°@18GHz
Capacitance (pF/m)	78.7	Temp. Phase Stability PPM(-55~+85℃)	800
Voltage Withstand (V)	3600	Amplitude Stability*(dB@18GHz)*	<±0.05

* Phase and amplitude stability test method: At temp the cable 360° around a mandrel which radius is 20 times the cable diameter.







Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18
Attenuation (dB/m)	0.14	0.22	0.25	0.30	0.33	0.37	0.43	0.48	0.53	0.57	0.62	0.66
Avg. Power (W)	1850	1298	1060	945	860	780	670	600	565	525	485	455

Part Numbering Code

B10 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J-16-00
Code 014
Mat. Stainless steel
Freq. 18GHz
VSWR 1.20:1

Type SMA Female
P/N SMA-K-01-00F
Code 02
Mat. Stainless steel
Freq. 18GHz
VSWR 1.25:1

Type N Male
P/N N-J-01-00A
Code 07
Mat. Stainless steel
Freq. 18GHz
VSWR 1.25:1

Type 4.3/10 Male
P/N 4310-J-02-00
Code 1H
Mat. Brass
Freq. 10GHz
VSWR 1.30:1

Type N Female
P/N N-K104-02
Code 08
Mat. Stainless steel
Freq. 18GHz
VSWR 1.30:1

Type TNC Male
P/N TNC-J-01-00
Code 11
Mat. Stainless steel
Freq. 18GHz
VSWR 1.25:1

Type L29 Male
P/N L29-J-01-00A
Code 49
Mat. Brass
Freq. 7.5GHz
VSWR 1.20:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(≤)			
	Connector 1	Connector 2	m	DC~2.5	2.5~6	6~12	12~18	DC~2.5	2.5~6	6~12	12~18
				GHz				GHz			
B10-014-014-0.15M	SMA Male	SMA Male	0.3	0.3	0.4	0.5	0.6	1.10	1.15	1.20	1.25
B10-014-014-0.15M	SMA Male	SMA Male	0.5	0.4	0.5	0.6	0.8	1.10	1.15	1.20	1.25
B10-014-014-1M	SMA Male	SMA Male	1.0	0.5	0.7	0.9	1.1	1.10	1.15	1.20	1.25
B10-014-014-1.5M	SMA Male	SMA Male	1.5	0.7	0.9	1.2	1.5	1.10	1.15	1.20	1.25
B10-014-014-2M	SMA Male	SMA Male	2.0	0.8	1.1	1.5	1.8	1.10	1.15	1.20	1.25
B10-014-014-3M	SMA Male	SMA Male	3.0	1.1	1.5	2.0	2.5	1.10	1.15	1.20	1.25
B10-014-07-0.15M	SMA Male	N Male	0.2	0.3	0.4	0.5	0.6	1.10	1.20	1.25	1.30
B10-014-07-0.15M	SMA Male	N Male	0.5	0.4	0.5	0.6	0.8	1.10	1.20	1.25	1.30
B10-014-07-1M	SMA Male	N Male	1.0	0.5	0.7	0.9	1.1	1.10	1.20	1.25	1.30
B10-014-07-1.5M	SMA Male	N Male	1.5	0.7	0.9	1.2	1.5	1.10	1.20	1.25	1.30
B10-014-07-2M	SMA Male	N Male	2.0	0.8	1.1	1.5	1.8	1.10	1.20	1.25	1.30
B10-014-07-3M	SMA Male	N Male	3.0	1.1	1.5	2.0	2.5	1.10	1.20	1.25	1.30
B10-07-07-0.15M	N Male	N Male	0.2	0.3	0.4	0.5	0.6	1.10	1.20	1.25	1.30
B10-07-07-0.5M	N Male	N Male	0.5	0.4	0.5	0.6	0.8	1.10	1.20	1.25	1.30
B10-07-07-1M	N Male	N Male	1.0	0.5	0.7	0.9	1.1	1.10	1.20	1.25	1.30
B10-07-07-1.5M	N Male	N Male	1.5	0.7	0.9	1.2	1.5	1.10	1.20	1.25	1.30
B10-07-07-2M	N Male	N Male	2.0	0.8	1.1	1.5	1.8	1.10	1.20	1.25	1.30
B10-07-07-3M	N Male	N Male	3.0	1.1	1.5	2.0	2.5	1.10	1.20	1.25	1.30

B12Y Ultra Low Loss Flexible Cable Assembly with Excellent Phase Stability over Flexure & Temp.

500ppm@-55~+85℃, ultra low loss 1.39dB@30GHz, suitable for wide temp. phased array radar applications

Construction

	Description	Diameter(mm)	Material
1	Center conductor	1.40	Solid SPC
2	Dielectric	3.90	LD-PTFE
3	Outer conductor	4.05	SPC Strip
4	Outer shield	4.60	SPC Braid
5	Jacket	5.10	FEP

Features & Advantage

- Ultra low loss, 1.39dB@30GHz
- Small overall diameter of 5.10mm
- Excellent phase stability over flexure & wide temp. range
- Consistent mechanical & electrical performance

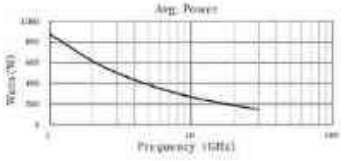
Mechanical & Environmental

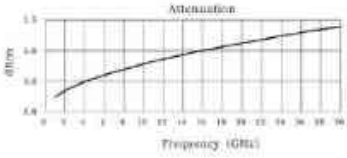
Bend Radius: installation (mm)	25
Bend Radius: repeated (mm)	40
Weight (g/m)	50
Temp, Operating (℃)	-55 ~ +165

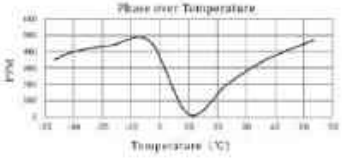
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	<-90
Velocity of Propagation(%)	80	Cut-Off Frequency(GHz)	50
Delay Time (ns/m)	4.04	Flex. Phase Stability*	±3°@30GHz
Capacitance (pF/m)	85.6	Temp. Phase Stability PPM/℃ 55~+85℃	500
Voltage Withstand (V)	2800	Amplitude Stability*(dB@18GHz)*	<±0.05

* Phase and amplitude stability test method: at temp the cable 360° around a mandrel which radius is 10 times the cable diameter







Attenuation (Typical@25℃) & Power(40℃, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30
Attenuation (dB/m)	0.29	0.34	0.42	0.49	0.55	0.60	0.69	0.78	0.86	0.93	1.00	1.06	1.31	1.39
Avg. Power (W)	875	615	500	431	385	350	301	268	244	225	210	197	159	150

Connector & Assembly Information

Part Numbering Code

B12Y - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J-20-00
Code 01
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.25:1

Type 3.5 Male
P/N 3.5-J-15-00
Code 47
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.25:1

Type N Male
P/N N-J212Y-00
Code 07
Mat. Stainless steel
Freq. 18GHz
VSWR 1.25:1

Type TNC Male
P/N TNC-J212Y-00
Code 11
Mat. Stainless steel
Freq. 18GHz
VSWR 1.25:1

Type TNC Female
P/N TNC-K-01-00
Code 12
Mat. Stainless steel
Freq. 18GHz
VSWR 1.30:1

Note: Customized connectors are available on request

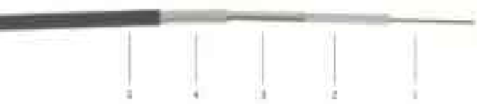
Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~2.5	2.5~6	6~12	12~18	DC~2.5	2.5~6	6~12	12~18
				GHz				GHz			
B12Y-01-01-0.3M	SMA Male	SMA Male	0.3	0.4	0.5	0.6	0.7	1.15	1.20	1.25	1.25
B12Y-01-01-0.5M	SMA Male	SMA Male	0.5	0.5	0.6	0.8	1.0	1.15	1.20	1.25	1.25
B12Y-01-01-1M	SMA Male	SMA Male	1.0	0.7	0.9	1.3	1.5	1.15	1.20	1.25	1.25
B12Y-01-01-1.5M	SMA Male	SMA Male	1.5	1.0	1.2	1.7	2.1	1.15	1.20	1.25	1.25
B12Y-01-01-2M	SMA Male	SMA Male	2.0	1.2	1.5	2.2	2.6	1.15	1.20	1.25	1.25
B12Y-01-01-3M	SMA Male	SMA Male	3.0	1.8	2.2	3.1	3.7	1.15	1.20	1.25	1.25
B12Y-07-07-0.3M	N Male	N Male	0.3	0.4	0.5	0.6	0.7	1.15	1.20	1.25	1.30
B12Y-07-07-0.5M	N Male	N Male	0.5	0.5	0.6	0.8	1.0	1.15	1.20	1.25	1.30
B12Y-07-07-1M	N Male	N Male	1.0	0.7	0.9	1.3	1.5	1.15	1.20	1.25	1.30
B12Y-07-07-1.5M	N Male	N Male	1.5	1.0	1.2	1.7	2.1	1.15	1.20	1.25	1.30
B12Y-07-07-2M	N Male	N Male	2.0	1.2	1.5	2.2	2.6	1.15	1.20	1.25	1.30
B12Y-07-07-3M	N Male	N Male	3.0	1.8	2.2	3.1	3.7	1.15	1.20	1.25	1.30
B12Y-11-11-0.3M	TNC Male	TNC Male	0.3	0.4	0.5	0.6	0.7	1.15	1.20	1.25	1.30
B12Y-11-11-0.5M	TNC Male	TNC Male	0.5	0.5	0.6	0.8	1.0	1.15	1.20	1.25	1.30
B12Y-11-11-1M	TNC Male	TNC Male	1.0	0.7	0.9	1.3	1.5	1.15	1.20	1.25	1.30
B12Y-11-11-1.5M	TNC Male	TNC Male	1.5	1.0	1.2	1.7	2.1	1.15	1.20	1.25	1.30
B12Y-11-11-2M	TNC Male	TNC Male	2.0	1.2	1.5	2.2	2.6	1.15	1.20	1.25	1.30
B12Y-11-11-3M	TNC Male	TNC Male	3.0	1.8	2.2	3.1	3.7	1.15	1.20	1.25	1.30

B08L Ultra Low Loss Flexible Cable Assembly with Excellent Phase Stability over Flexure & Temp.

500ppm@-55~+85℃, ultra low loss 4.79dB@40GHz, suitable for wide temp. phased array radar applications

Construction



	Description	Diameter(mm)	Material
1	Center conductor	0.50	Solid SPC
2	Dielectric	1.40	LD-PTFE
3	Outer conductor	1.70	SPC Strip
4	Outer shield	2.00	SPC Braid
5	Jacket	2.30	PFA

Features & Advantage

- Ultra low loss, 4.79dB@40GHz
- Small overall diameter of 2.2mm
- Excellent phase stability over flexure & wide temp. range
- Outstanding and consistent mechanical & electrical performance

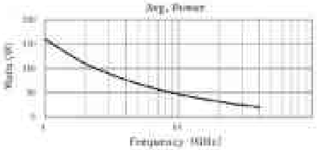
Mechanical & Environmental

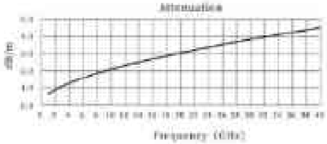
Bend Radius installation (mm)	12.7
Bend Radius repeated (mm)	25.4
Weight (g/m)	14
Temp. Operating (℃)	-65 ~ +200

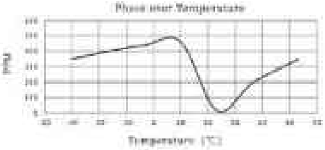
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	<-90
Velocity of Propagation(%)	83	Cut Off Frequency(GHz)	66
Delay Time (ns/m)	4.04	Flex. Phase Stability*	±3°@40GHz
Capacitance (pF/m)	80.6	Temp. Phase Stability PPM(-55~+85℃)	550
Voltage Withstand (V)	1000	Amplitude Stability*(dB@40GHz)*	<±0.05

* Phase and amplitude stability [illegible]







Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	32	40
Attenuation (dB/m)	0.62	0.90	1.10	1.28	1.43	1.58	1.86	2.08	2.31	2.50	2.69	2.87	3.71	4.02	4.79
Avg. Power (W)	160	110	90	77	68	62	53	47	42	39	36	34	26	25	20

Part Numbering Code

B08L- 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IMI	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
W	Water Proof

Connector Code

 Type: SMA Male P/N: SMA-J2E8-00 Code: 012 Mat.: Brass body with stainless steel nut Freq.: 26.5GHz VSWR: 1.35:1	 Type: SMA Male BA P/N: SMA-JW-05-00 Code: 05 Mat.: Brass body with stainless steel nut Freq.: 18GHz VSWR: 1.35:1	 Type: 2.92 Male P/N: 2.92-J-02-00A Code: 46 Mat.: Stainless steel Freq.: 40GHz VSWR: 1.35:1	 Type: 2.92 Male P/N: 2.92-J-02-00 Code: 401 Mat.: Stainless steel Freq.: 40GHz VSWR: 1.30:1
 Type: 2.92 Female P/N: 2.92-K-12-00 Code: 400 Mat.: Stainless steel Freq.: 40GHz VSWR: 1.25:1	 Type: 2.4 Male P/N: 2.4-J-02-00 Code: 09 Mat.: Stainless steel Freq.: 50GHz VSWR: 1.35:1	 Type: SSMA Male P/N: SSMA-J-04-00 Code: 26 Mat.: Stainless steel Freq.: 26.5GHz VSWR: 1.20:1	 Type: SMP Male P/N: SMP-J-09-00 Code: 06 Mat.: Brass Freq.: 10GHz VSWR: 1.20:1
 Type: SMP Male P/N: SMP-J-11-00 Code: 269 Mat.: Brass Freq.: 18GHz VSWR: 1.25:1	 Type: SMP Female P/N: SMP-K-02-00 Code: 37 Mat.: Brass Freq.: 26.5GHz VSWR: 1.20:1	 Type: SMP Female RA P/N: SMP-KW-02-00 Code: 382 Mat.: Brass Freq.: 26.5GHz VSWR: 1.30:1	 Type: SSMP Male P/N: SSMP-J-06-00 Code: 89 Mat.: Brass Freq.: 18GHz VSWR: 1.20:1
 Type: SMMP Male P/N: SMMP-J-01-00 Code: 135 Mat.: Brass Freq.: 40GHz VSWR: 1.30:1	 Type: SMMP Female P/N: SMMP-K-01-00 Code: 1A Mat.: Brass Freq.: 40GHz VSWR: 1.30:1	 Type: SSMP Female RH P/N: SSMP-KY-01-00 Code: 07E Mat.: Brass Freq.: 40GHz VSWR: 1.30:1	

Note: Customized connectors are available on request

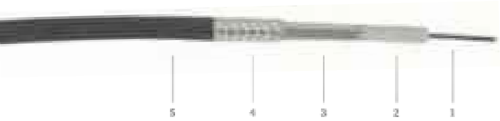
Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation, Insertion Loss (dB)				VSWR(≤)			
	Connector 1	Connector 2	m	DC~3	3~18	18~26.5	26.5~40	DC~3	3~18	18~26.5	26.5~40
				GHz				GHz			
B08L-012-012-0.3M	SMA Male	SMA Male	0.3	0.8	1.3	1.7		1.20	1.30	1.35	
B08L-012-012-0.5M	SMA Male	SMA Male	0.5	1.1	1.9	2.5		1.20	1.30	1.35	
B08L-012-012-1M	SMA Male	SMA Male	1.0	1.9	3.3	4.4		1.20	1.30	1.35	
B08L-401-401-0.3M	2.92 Male	2.92 Male	0.3	0.8	1.3	1.7	2.2	1.15	1.25	1.30	1.35
B08L-401-401-0.5M	2.92 Male	2.92 Male	0.5	1.1	1.9	2.5	3.4	1.15	1.25	1.30	1.35
B08L-401-401-1M	2.92 Male	2.92 Male	1.0	1.9	3.3	4.4	5.9	1.15	1.25	1.30	1.35

B16Y Ultra Low Loss Flexible Cable Assembly
with Excellent Phase Stability over Flexure & Temp.

500ppm@-55~+85°C, ultra low loss 2.85dB@46GHz, suitable for wide temp. phased array radar applications

Construction



	Description	Diameter (mm)	Material
1	Center conductor	0.90	Solid SPC
2	Dielectric	2.40	LD-PTFE
3	Outer conductor	2.60	SPC Strip
4	Outer shield	3.30	SPC Braid
5	Jacket	3.60	FEP

Features & Advantage

- Ultra low loss, 2.85dB@46GHz
- Outstanding and consistent mechanical & electrical performance
- Excellent phase stability over flexure & wide temp. range
- Small overall diameter of 3.6mm

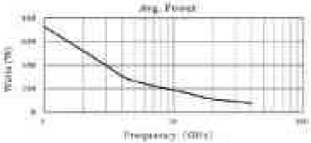
Mechanical & Environmental

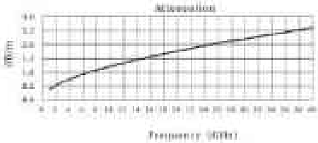
Bend Radius installation (mm)	25.4
Bend Radius repeated (mm)	50.8
Weight (g/m)	33
Temp. Operating (°C)	-65~+200

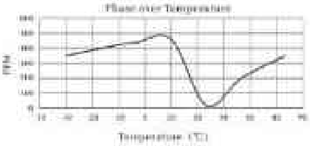
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	< -90
Velocity of Propagation(%)	83	Cut-Off Frequency(GHz)	46
Delay Time (ns/m)	4.01	Flex. Phase Stability*	±4°@40GHz
Capacitance (pF/m)	80.6	Temp. Phase Stability PPM(-55~+85°C)	500
Voltage Withstand (V)	1200	Amplitude Stability*(dB@18GHz)*	< ±0.05

*Phase and amplitude stability test method: to wrap the cable 360° around a mandrel which radius is 10 times the cable diameter







Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40
Attenuation (dB/m)	0.38	0.53	0.64	0.75	0.84	0.93	1.08	1.21	1.33	1.45	1.56	1.66	2.07	2.20	2.61
Avg. Power (W)	725	529	400	305	265	240	210	188	168	158	135	120	95	90	75

Connector & Assembly Information

Part Numbering Code

B16Y- 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PE/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA J201-08
Code 01
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.25:1

Self-locking

Type SMA Male
P/N SMA-JZ-01-00
Code 012
Mat. Stainless steel
Freq. 18GHz
VSWR 1.30:1

Type SMA Female
P/N SMA-K-04-00G
Code 02
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.25:1

Type N Female
P/N N-K-11-00
Code 08
Mat. Stainless steel
Freq. 18GHz
VSWR 1.30:1

Type 2.92 Male
P/N 2.92-J-03-00
Code 40
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.92 Female
P/N 2.92-K-01-00
Code 46
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.4 Male
P/N 2.4-J-03-00
Code 39
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
				GHz				GHz			
B16Y-01-01-0.3M	SMA Male	SMA Male	0.3	0.6	0.9	1.1		1.20	1.20	1.35	
B16Y-01-01-0.5M	SMA Male	SMA Male	0.5	0.8	1.3	1.6		1.20	1.20	1.35	
B16Y-01-01-1M	SMA Male	SMA Male	1.0	1.3	2.1	2.6		1.20	1.20	1.35	
B16Y-01-01-1.5M	SMA Male	SMA Male	1.5	1.7	3.0	3.7		1.20	1.20	1.35	
B16Y-01-01-2M	SMA Male	SMA Male	2.0	2.2	3.8	4.7		1.20	1.20	1.35	
B16Y-01-01-3M	SMA Male	SMA Male	3.0	3.2	5.5	6.8		1.20	1.20	1.35	
B16Y-40-40-0.3M	2.92 Male	2.92 Male	0.3	0.6	0.9	1.1	1.6	1.15	1.25	1.30	1.35
B16Y-40-40-0.5M	2.92 Male	2.92 Male	0.5	0.8	1.3	1.6	2.1	1.15	1.25	1.30	1.35
B16Y-40-40-1M	2.92 Male	2.92 Male	1.0	1.3	2.1	2.6	3.4	1.15	1.25	1.30	1.35
B16Y-40-40-1.5M	2.92 Male	2.92 Male	1.5	1.7	3.0	3.7	4.7	1.15	1.25	1.30	1.35
B16Y-40-40-2M	2.92 Male	2.92 Male	2.0	2.2	3.8	4.7	6.0	1.15	1.25	1.30	1.35
B16Y-40-40-3M	2.92 Male	2.92 Male	3.0	3.2	5.5	6.8	8.6	1.15	1.25	1.30	1.35

B15 Ultra Low Loss Flexible Cable Assembly with Excellent Phase Stability over Flexure & Temp.

500ppm@-55~+85℃, ultra flexible & durable, suitable for wide temp. phased array radar applications with frequent bending

Construction

	Description	Diameter(mm)	Material
1	Center conductor	1.02	Stranded SPC
2	Dielectric	3.00	LD-PTFE
3	Outer conductor	3.30	SPC Strip
4	Middle Layer	3.50	PTFE
5	Outer shield	3.95	SPC Braid
6	Jacket	4.90	Green FEP

Features & Advantage

- low loss, 2.89dB@40GHz
- Ultra flexible, ultra durable
- Outstanding and consistent mechanical & electrical performance

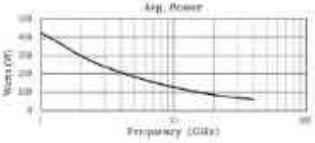
Mechanical & Environmental

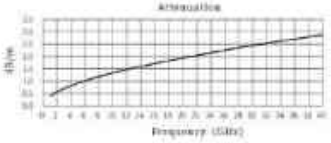
Bend Radius: installation (mm)	16
Bend Radius: repeated (mm)	32
Weight (g/m)	40
Temp. Operating (℃)	-55 ~ +165

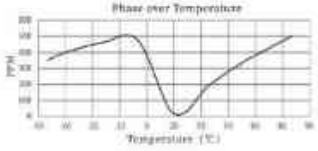
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	<-90
Velocity of Propagation(%)	83	Cut Off Frequency(GHz)	90
Delay Time (ns/m)	4.115	Flex. Phase Stability*	±3°@40GHz
Capacitance (pF/m)	80.6	Temp. Phase Stability PPM(-55~+85℃)	500
Voltage Withstand (V)	1500	Amplitude Stability*dB@40GHz)*	<±0.10

*Phase and amplitude stability test method: to wrap the cable 360° around a mandrel which radius is 10 times the cable diameter







Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	20.5	30	40
Attenuation (dB/m)	0.40	0.57	0.70	0.82	0.92	1.01	1.18	1.33	1.47	1.60	1.72	1.84	2.28	2.45	2.89
Avg. Power (W)	424	297	239	206	184	167	143	127	115	105	98	91	74	69	59

Connector & Assembly Information

Part Numbering Code

B15 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IMI	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type	SMA Male
P/N	SMA-J-04-00H
Code	01
Mat.	Stainless steel
Freq.	26.5GHz
VSWR	1.25:1

Type	SMA Female
P/N	SMA-K-12-00
Code	02
Mat.	Stainless steel
Freq.	26.5GHz
VSWR	1.25:1

Type	2.92 Male
P/N	2.92-J-26-00
Code	40
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length		Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	Feet	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
					GHz				GHz			
B15-01-01-2FT	SMA Male	SMA Male	2.0		0.9	1.5	1.9		1.20	1.30	1.35	
B15-01-01-3FT	SMA Male	SMA Male	3.0		1.2	1.4	2.6		1.20	1.30	1.35	
B15-01-01-0.5M	SMA Male	SMA Male		0.5	0.8	1.2	1.7		1.20	1.30	1.35	
B15-01-01-1M	SMA Male	SMA Male		1.0	1.3	2.5	2.8		1.20	1.30	1.35	
B15-01-01-1.5M	SMA Male	SMA Male		1.5	1.8	3.2	4.0		1.20	1.30	1.35	
B15-01-01-2M	SMA Male	SMA Male		2.0	2.3	4.2	5.2		1.20	1.30	1.35	
B15-01-02-2FT	SMA Male	SMA Female	2.0		0.9	1.5	1.9		1.20	1.30	1.35	
B15-01-02-3FT	SMA Male	SMA Female	3.0		1.2	1.4	2.6		1.20	1.30	1.35	
B15-01-02-0.5M	SMA Male	SMA Female		0.5	0.8	1.2	1.7		1.20	1.30	1.35	
B15-01-02-1M	SMA Male	SMA Female		1.0	1.3	2.5	2.8		1.20	1.30	1.35	
B15-01-02-1.5M	SMA Male	SMA Female		1.5	1.8	3.2	4.0		1.20	1.30	1.35	
B15-01-02-2M	SMA Male	SMA Female		2.0	2.3	4.2	5.2		1.20	1.30	1.35	
B15-40-40-2FT	2.92 Male	2.92 Male	2.0		0.9	1.5	1.9	2.1	1.20	1.30	1.35	1.35
B15-40-40-3FT	2.92 Male	2.92 Male	3.0		1.2	1.4	2.6	2.9	1.20	1.30	1.35	1.35
B15-40-40-0.5M	2.92 Male	2.92 Male		0.5	0.8	1.2	1.7	1.8	1.20	1.30	1.35	1.35
B15-40-40-1M	2.92 Male	2.92 Male		1.0	1.3	2.5	2.8	3.2	1.20	1.30	1.35	1.35
B15-40-40-1.5M	2.92 Male	2.92 Male		1.5	1.8	3.2	4.0	4.5	1.20	1.30	1.35	1.35
B15-40-40-2M	2.92 Male	2.92 Male		2.0	2.3	4.2	5.2	5.8	1.20	1.30	1.35	1.35

B110 Low Loss Flexible Cable Assembly
with Excellent Phase Stability over Flexure & Temp.

Suitable for the connection of 110GHz systems/equipment & the construction of test platforms

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.32	Stranded SPC
2	Dielectric	0.91	LD-PTFE
3	Outer conductor	1.05	SPC Strip
4	Outer shield	1.17	SPC Braid
5	Jacket	1.42	Green FEP

Features & Advantage

- Low loss
- Excellent Phase Stability over Flexure & Temp.
- Extremely Small Bending Radius

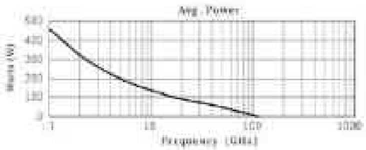
Mechanical & Environmental

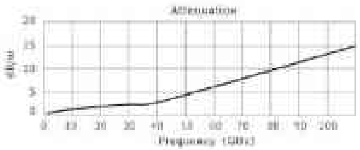
Bend Radius installation (mm)	3
Bend Radius repeated (mm)	6
Weight (g/m)	3.3
Temp. Operating (℃)	-65 ~ +150

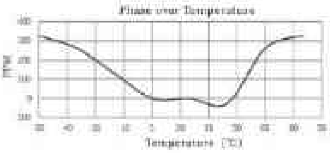
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	< -100
Velocity of Propagation(%)	79.7	Cut-Off Frequency(GHz)	142
Delay Time (ns/m)	4.244	Flex. Phase Stability*	±5°@110GHz
Capacitance (pF/m)	84.7	Temp. Phase Stability PPM(-55~+85℃)	400
Voltage Withstand (V)	750	Amplitude Stability*(dB@40GHz)*	< ±0.05

*Phase and amplitude stability test method: to wrap the cable 360° around a mandrel which radius is 10 times the cable diameter







Attenuation (Typical@25°C) & Power(40°C , Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	18	26.5	30	40	50	67	110
Attenuation (dB/m)	1.10	1.57	1.93	2.24	2.51	2.73	3.22	3.62	3.99	4.96	6.12	6.55	7.69	8.71	10.30	15.00
Avg. Power (W)	49.3	34.6	28.1	24.2	21.6	19.6	16.9	15	13.6	11	8.9	8.3	7.1	6.2	5.3	3.6

Connector & Assembly Information

Part Numbering Code

B110 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

"If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
DM	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type	1.0 Male
P/N	1.0-J-01-00
Code	1Y
Mat.	Stainless steel
Freq.	110GHz
VSWR	1.35

Type	1.0 Female
P/N	1.0-K-01-00
Code	1Z
Mat.	Stainless steel
Freq.	110GHz
VSWR	1.35

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC-40	40-50	50-67	67-110	DC-40	40-50	50-67	67-110
				GHz				GHz			
B110-1Y-1Y-0.3M	1.0 Male	1.0 Male	0.3	2.9	3.3	3.9	5.5	1.30	1.30	1.35	1.45
B110-1Y-1Y-0.5M	1.0 Male	1.0 Male	0.5	4.4	5.0	6.0	8.5	1.30	1.30	1.35	1.45
B110-1Y-1Y-1M	1.0 Male	1.0 Male	1.0	8.2	9.4	11.1	16.0	1.30	1.30	1.35	1.45
B110-1Y-1Z-0.3M	1.0 Male	1.0 Female	0.3	2.9	3.3	3.9	5.5	1.30	1.30	1.35	1.45
B110-1Y-1Z-0.5M	1.0 Male	1.0 Female	0.5	4.4	5.0	6.0	8.5	1.30	1.30	1.35	1.45
B110-1Y-1Z-1M	1.0 Male	1.0 Female	1.0	8.2	9.4	11.1	16.0	1.30	1.30	1.35	1.45
B110-1Z-1Z-0.3M	1.0 Female	1.0 Female	0.3	2.9	3.3	3.9	5.5	1.30	1.30	1.35	1.45
B110-1Z-1Z-0.5M	1.0 Female	1.0 Female	0.5	4.4	5.0	6.0	8.5	1.30	1.30	1.35	1.45
B110-1Z-1Z-1M	1.0 Female	1.0 Female	1.0	8.2	9.4	11.1	16.0	1.30	1.30	1.35	1.45

C Series --Flexible Cable Assemblies with Excellent Phase Stability vs. Flexure

BENEFITS:

★ Excellent & consistent mechanical & electrical performance
★ Low loss, low VSWR & high power handling
★ High shielding effectiveness
★ Phase stable over flexure
★ Good phase tracking performance

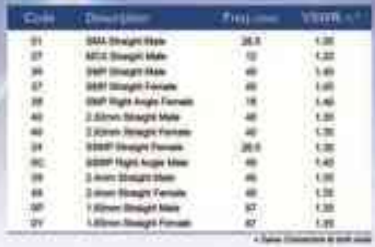
APPLICATIONS:

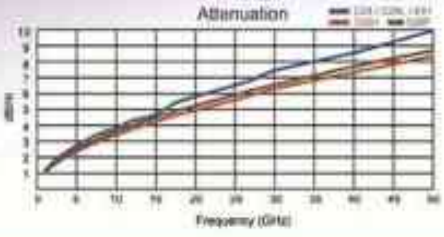
★ RF, microwave & millimeter wave test systems
★ Airborne, ground & sea-based systems, both commercial & military

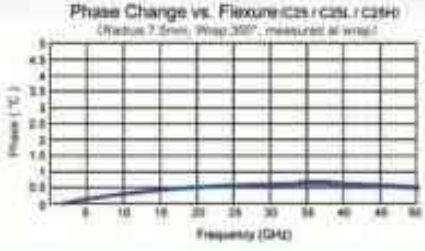
Your Widest Choice for .047" Cable Assemblies

In Stock

SRFS offers 5 kinds of .047" cables to meet various applications. They are semi-rigid and four versions of flexible cables. For each cable, there are wide range of connectors for your choice, including SMA, MCX, SMP, 2.92, 2.4 and 1.85mm, etc. These cable assemblies have excellent VSWR, stable performance and high reliability.







C02 High Shielding Flexible Cable Assembly, Replacement of Semi-rigid .141 Cable

High shieling effectiveness <-110dB, excellent phase stability over flexure ±3°@26.5GHz

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.92	Solid SPCW
2	Dielectric	3.00	PTFE
3	Outer conductor	3.25	SPC Strip
4	Outer shield	3.60	SPC Braid
5	Jacket	4.20	FEP

Features & Advantage

- High shieling effectiveness <-110dB
- Good phase stability over flexure
- Very flexible, high mechanical strength
- Direct replacement of .141 semi-rigid cable

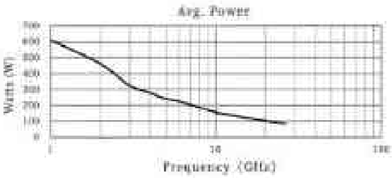
Mechanical & Environmental

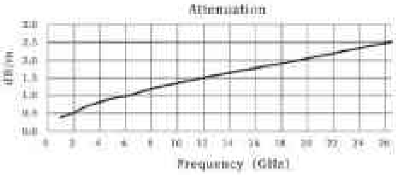
Bend Radius installation (mm)	21
Bend Radius repeated (mm)	42
Weight (g/m)	48
Temp. Operating (°C)	-55 ~ +200

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	<-119
Velocity of Propagation(%)	70	Cut-Off Frequency(GHz)	34
Delay Time (ns/m)	4.6	Flex. Phase Stability*	±3°@26.5GHz
Capacitance (pF/m)	95.0	Amplitude Stability*(dB@18GHz)*	<±0.05
Voltage Withstand (V)	1900		

*[illegible]





Attenuation (Typical@25°C) & Power(20°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30
Attenuation (dB/m)	0.29	0.33	0.49	0.61	0.71	0.78	1.19	1.25	1.30	1.64	1.77	1.90	2.32	2.76
Avg. Power (W)	610	461	325	275	240	224	185	155	140	128	118	110	85	76

Part Numbering Code

C02 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DL	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J-04-00S
Code 01
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.30:1

Type SMA Female
P/N SMA-K-04-00
Code 02
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.30:1

Type 3.5 Male
P/N 3.5-J-01-00A
Code 47
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.30:1

Type 3.5 Female
P/N 3.5-K-01-00A
Code 00
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.30:1

Type RMMP Male
P/N RMMP-J-01-00
Code 3D
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.25:1

Type RMMP Female
P/N RMMP-K-01-00
Code 3C
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.25:1

Type TNC Male
P/N TNC-J-02-00
Code 11
Mat. Stainless steel
Freq. 18GHz
VSWR 1.25:1

Type N Male
P/N N-J-02-00
Code 07
Mat. Stainless steel
Freq. 18GHz
VSWR 1.25:1

Type N Female
P/N N-K-04-00
Code 08
Mat. Stainless steel
Freq. 6GHz
VSWR 1.25:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(≤)			
	Connector 1	Connector 2	m	DC~2.5	2.5~6	6~18	18~26.5 GHz	DC~2.5	2.5~6	6~18	18~26.5 GHz
C02-01-01-0.3M	SMA Male	SMA Male	0.3	0.4	0.6	1.0	1.5	1.15	1.20	1.20	1.35
C02-01-01-0.5M	SMA Male	SMA Male	0.5	0.6	0.9	1.3	1.9	1.15	1.20	1.20	1.35
C02-01-01-1M	SMA Male	SMA Male	1.0	1.0	1.4	2.5	3.3	1.15	1.20	1.20	1.35
C02-01-01-1.5M	SMA Male	SMA Male	1.5	1.3	2.0	3.6	4.7	1.15	1.20	1.20	1.35
C02-01-01-2M	SMA Male	SMA Male	2.0	1.7	2.5	4.6	6.1	1.15	1.20	1.20	1.35
C02-01-01-3M	SMA Male	SMA Male	3.0	2.3	3.6	6.7	8.9	1.15	1.20	1.20	1.35
C02-01-07-0.3M	SMA Male	N Male	0.3	0.4	0.6	1.0		1.15	1.20	1.20	
C02-01-07-0.5M	SMA Male	N Male	0.5	0.6	0.9	1.3		1.15	1.20	1.20	
C02-01-07-1M	SMA Male	N Male	1.0	1.0	1.4	2.5		1.15	1.20	1.20	
C02-01-07-1.5M	SMA Male	N Male	1.5	1.3	2.0	3.6		1.15	1.20	1.20	
C02-07-07-0.3M	N Male	N Male	0.3	0.4	0.6	1.0		1.15	1.20	1.20	
C02-07-07-0.5M	N Male	N Male	0.5	0.6	0.9	1.3		1.15	1.20	1.20	
C02-07-07-1M	N Male	N Male	1.0	1.0	1.4	2.5		1.15	1.20	1.20	
C02-07-07-1.5M	N Male	N Male	1.5	1.3	2.0	3.6		1.15	1.20	1.20	

C03 High Shielding Flexible Cable Assembly, Replacement of Semi-rigid .086 Cable

High shieling effectiveness <-110dB, excellent phase stability over flexure ±3.5°@40GHz

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.51	Solid SPCW
2	Dielectric	1.63	PTFE
3	Outer conductor	1.81	SPC Strip
4	Outer shield	2.19	SPC Braid
5	Jacket	2.64	FEP

Features & Advantage

- High shielding effectiveness < 110dB
- Good phase stability over flexure
- Very flexible, high mechanical strength
- Direct replacement of .086 semi-rigid cable

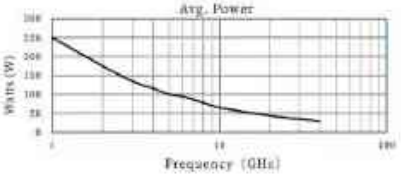
Mechanical & Environmental

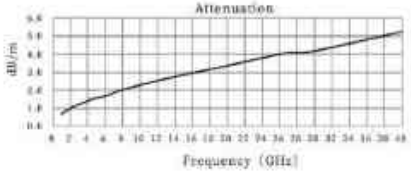
Bend Radius: installation (mm)	12.7
Bend Radius: repeated (mm)	25.4
Weight (g/m)	21
Temp, Operating (°C)	-55 ~ +200

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	<-110
Velocity of Propagation(%)	70	Cut-Off Frequency(GHz)	64
Delay Time (ns/m)	4.6	Flex. Phase Stability*	±3.5°@40GHz
Capacitance (pf/m)	96.5	Amplitude Stability*(dB@18GHz)*	< ±0.05
Voltage Withstand (V)	1000		

* Phase and amplitude stability test method: to wrap the cable 360° around a round of which radius is 10 times the cable diameter





Attenuation (Typical@25°C) & Power(20°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40
Attenuation (dB/m)	0.68	0.98	1.20	1.40	1.58	1.66	2.02	2.28	2.52	2.74	2.94	3.14	4.03	4.17	5.23
Avg. Power (W)	250	175	135	116	100	95	78	65	59	54	50	47	37	36	29

Part Numbering Code

C03 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J502-04
Code 012
Mat. Brass body with stainless steel nut
Freq. 26.5GHz
VSWR 1.25:1

Type SMA Male RA
P/N SMA-JW-05-00
Code 051
Mat. Brass body with stainless steel nut
Freq. 18GHz
VSWR 1.35:1

Type 2.92 Male
P/N 2.92-J-02-00A
Code 40
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.4 Male
P/N 2.4-J-02-00
Code 39
Mat. Stainless steel
Freq. 50GHz
VSWR 1.35:1

Type SMP Female
P/N SMP-K-02-00
Code 232
Mat. Brass
Freq. 25.5GHz
VSWR 1.30:1

Type SMP Female RA
P/N SMP KW-02-00
Code 381
Mat. Brass
Freq. 26.5GHz
VSWR 1.30:1

Type SMMP Male
P/N SMMP-J-01-00
Code 130
Mat. Brass
Freq. 40GHz
VSWR 1.40:1

Type SMMP Female
P/N SMMP-K-01-00
Code 160
Mat. Brass
Freq. 40GHz
VSWR 1.40:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length		Attenuation (insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	Feet	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
					GHz				GHz			
C03-013-013-0.3M	SMA Male	SMA Male		0.3	0.8	1.0	1.0		1.20	1.20	1.35	
C03-013-013-0.5M	SMA Male	SMA Male		0.5	1.0	1.0	2.1		1.20	1.20	1.35	
C03-013-013-1M	SMA Male	SMA Male		1.0	1.4	2.0	3.1		1.20	1.20	1.35	
C03-372-372-0.2M	SMP Female	SMP Female		0.2	0.7	1.0	1.3		1.20	1.20	1.35	
C03-372-372-0.3M	SMP Female	SMP Female		0.3	0.8	1.2	1.6		1.20	1.20	1.35	
C03-372-372-0.5M	SMP Female	SMP Female		0.5	1.2	2.0	2.7		1.20	1.20	1.35	
C03-372-372-1M	SMP Female	SMP Female		1.0	1.4	2.0	3.1		1.20	1.20	1.35	
C03-372-381-0.2M	SMP Female	SMP Female RA		0.2	0.7	1.0	1.3		1.20	1.20	1.40	
C03-372-381-0.3M	SMP Female	SMP Female RA		0.3	0.8	1.2	1.6		1.20	1.20	1.40	
C03-372-381-0.5M	SMP Female	SMP Female RA		0.5	1.2	2.0	2.7		1.20	1.20	1.40	
C03-372-381-1M	SMP Female	SMP Female RA		1.0	1.4	2.0	3.1		1.20	1.20	1.40	
C03-381-381-0.2M	SMP Female RA	SMP Female RA		0.2	0.7	1.0	1.3		1.20	1.20	1.40	
C03-381-381-0.3M	SMP Female RA	SMP Female RA		0.3	0.8	1.2	1.6		1.20	1.20	1.40	
C03-381-381-0.5M	SMP Female RA	SMP Female RA		0.5	1.2	2.0	2.7		1.20	1.20	1.40	
C03-381-381-1M	SMP Female RA	SMP Female RA		1.0	1.4	2.0	3.1		1.20	1.20	1.40	
C03-39-39-1M	2.4 Male	2.4 Male		1.0	2.1	3.0	5.0	6.4	1.15	1.25	1.30	1.35
C03-39-40-1M	2.4 Male	2.92 Male		1.0	2.1	3.0	5.0	6.4	1.15	1.25	1.30	1.35
C03-40-40-1M	2.92 Male	2.92 Male		1.0	2.1	3.0	5.0	6.4	1.15	1.25	1.30	1.35
C03-40-40-1.5FT	2.92 Male	2.92 Male	1.5		1.1	1.9	2.6	3.3	1.15	1.25	1.30	1.35
C03-40-40-2FT	2.92 Male	2.92 Male	2.0		1.4	2.5	3.3	4.2	1.15	1.25	1.30	1.35

C25 Ultra Flexible & Durable .047 Cable Assembly with High Mechanical Strength

Ideal for connection and jumper requiring extremely limited installation space & high reliability

Construction

	Description	Diameter(mm)	Material
1	Centre conductor	0.29	Solid SPC
2	Dielectric	0.92	PTFE
3	Outer conductor	1.05	SPC Strip
4	Outer shield	1.13	High Strength SPCA Braid
5	Jacket	1.42	PFP

Features & Advantage

- High strength braid structure
- Ultra flexible and durable
- Very stable performance over bending
- Ultra-thin, overall diameter with 1.42mm

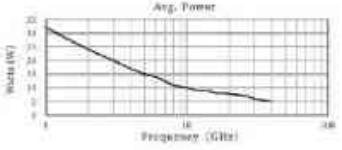
Mechanical & Environmental

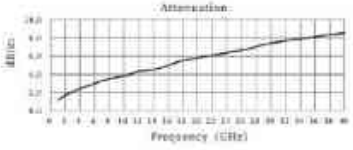
Bend Radius: installation (mm)	3
Bend Radius: repeated (mm)	6
Weight (g/m)	5.2
Temp. Operating (°C)	-55 ~ +125

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	>-100
Velocity of Propagation(%)	70	Cut-Off Frequency(GHz)	112
Delay Time (ns/in)	4.76	Elec. Phase Stability*	±1°@40GHz
Capacitance (pF/m)	95	Temp. Phase Stability PPM(-55~+85℃)	1500
Voltage Withstand (V)	750	Amplitude Stability*(dB@18GHz)*	< ±0.05

* Phase and amplitude stability test method: to wrap the cable 360° around a mandrel, which radius is 10 times the cable diameter





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40	50
Attenuation (dB/m)	1.17	1.68	2.08	2.42	2.72	3.00	3.51	3.81	4.30	4.81	4.96	5.51	6.74	7.44	8.57	9.95
Avg. Power (W)	32	26	20	17	15	14	11	10	9	9	8	8	7	6	5	4.3

Connector & Assembly Information

Part Numbering Code

C25 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with 'W'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DL	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

 Type SMA Male,Tailless P/N SMA-JD-01-00 Code 011 Mat. Stainless steel Freq. 26.5GHz VSWR 1.25:1	 Type 2.92 Male P/N 2.92-J-02-00 Code 40 Mat. Stainless steel Freq. 40GHz VSWR 1.30:1	 Type 2.92 Female P/N 2.92-K-03-00 Code 44 Mat. Stainless steel Freq. 40GHz VSWR 1.30:1	 Type SMP Female P/N SMP-K-01-00 Code J7 Mat. Brass Freq. 40GHz VSWR 1.35:1
 Type SMP Female RA P/N SMP-KW-02-00 Code 380 Mat. Brass Freq. 26.5GHz VSWR 1.35:1	 Type SSMP Female RA P/N SSMP-KW-02-00 Code 86 Mat. Brass Freq. 40GHz VSWR 1.45:1	 Type SSMP F Bulkhead P/N SSMP-KF-02-00 Code 08 Mat. Brass Freq. 40GHz VSWR 1.45:1	 Type MCX Male P/N MCX-J-01-00 Code 27 Mat. Brass Freq. 12GHz VSWR 1.20:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(≤)			
	Connector 1	Connector 2	m	DC~6	6~12	12~26.5	26.5~40	DC~6	6~12	12~26.5	26.5~40
				GHz				GHz			
C25-011-011-0.2M	SMA Male	SMA Male	0.2	0.8	1.3	1.9		1.15	1.20	1.30	
C25-011-011-0.3M	SMA Male	SMA Male	0.3	1.1	1.7	2.6		1.15	1.20	1.30	
C25-011-011-0.5M	SMA Male	SMA Male	0.5	1.8	2.6	4.0		1.15	1.20	1.30	
C25-27-27-0.2M	MCX Male	MCX Male	0.2	0.8	1.2			1.20	1.25		
C25-27-27-0.3M	MCX Male	MCX Male	0.3	1.1	1.7			1.20	1.25		
C25-27-27-0.5M	MCX Male	MCX Male	0.5	1.8	2.6			1.30	1.25		
C25-37-37-0.2M	SMP Female	SMP Female	0.2	0.8	1.2	1.9		1.15	1.25	1.35	
C25-37-37-0.2MH	SMP Female	SMP Female	0.2	0.8	1.2	1.9	2.6	1.15	1.25	1.35	1.40
C25-37-37-0.3M	SMP Female	SMP Female	0.3	1.1	1.7	2.6		1.15	1.25	1.35	
C25-37-37-0.3MH	SMP Female	SMP Female	0.3	1.1	1.7	2.6	3.5	1.15	1.25	1.35	1.40
C25-37-37-0.5M	SMP Female	SMP Female	0.5	1.8	2.6	4.0		1.15	1.25	1.35	
C25-37-37-0.5MH	SMP Female	SMP Female	0.5	1.8	2.6	4.0	5.3	1.15	1.25	1.35	1.40
C25-37-380-0.2M	SMP Female	SMP Female RA	0.2	0.8	1.2	1.9		1.15	1.25	1.40	
C25-37-380-0.3M	SMP Female	SMP Female RA	0.3	1.1	1.7	2.6		1.15	1.25	1.40	
C25-37-380-0.5M	SMP Female	SMP Female RA	0.5	1.8	2.6	4.0		1.15	1.25	1.40	
C25-380-380-0.2M	SMP Female RA	SMP Female RA	0.2	0.8	1.2	1.9		1.15	1.25	1.40	
C25-380-380-0.3M	SMP Female RA	SMP Female RA	0.3	1.1	1.7	2.6		1.15	1.25	1.40	
C25-380-380-0.5M	SMP Female RA	SMP Female RA	0.5	1.8	2.6	4.0		1.15	1.25	1.40	

C25F Ultra Flexible & Low Loss .047 Cable Assembly with High Mechanical Strength

Ideal for connection and jumper requiring extremely limited installation space & high reliability

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.32	Solid SPC
2	Dielectric	0.91	Foamed PTFE
3	Outer conductor	1.05	SPC Strip
4	Outer shield	1.17	SPC Braid
5	Jacket	1.42	FEP

Features & Advantage

- PTFE foaming medium, low loss
- Ultra flexible and durable,Stable performance
- Excellent phase stability over flexure & temperature
- High mechanical strength

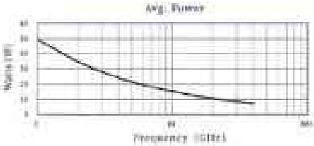
Mechanical & Environmental

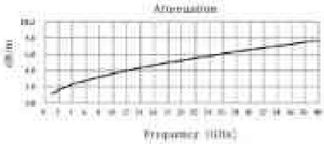
Bend Radius: installation (mm)	3
Bend Radius: repeated (mm)	6
Weight (g/m)	5.5
Temp. Operating (°C)	-65~+150

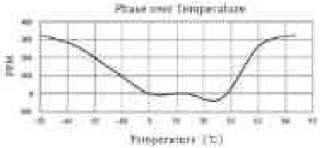
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	< 100
Velocity of Propagation(%)	78.7	Cut-Off Frequency(GHz)	140
Delay Time (ns/m)	4.24	Flex. Phase Stability*	±6°@67GHz
Capacitance (pF/m)	84.7	Temp. Phase Stability PPM(-40~+70°C)	400
Voltage Withstand (V)	750	Amplitude Stability*(dB@18GHz)*	< ±0.05

* [illegible]







Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40	50	67
Attenuation (dB/m)	1.10	1.57	1.93	2.24	2.52	2.77	3.22	3.62	3.99	4.33	4.66	4.96	6.12	6.55	7.49	8.71	10.3
Avg. Power (W)	49.1	34.6	28.1	24.2	21.5	19.6	16.9	15	13.6	12.5	11.6	11	8.9	8.2	7.1	6.2	5.32

Part Numbering Code

C25F - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector required, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
YA	Armor with PU/PVC jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male,Tailless
P/N SMA-JJ-01-00
Code 01
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.25:1

Type 2.92 Male
P/N 2.92-J-02-00
Code 40
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.92 Male
P/N 2.92-J-04-00
Code 400
Mat. Brass body with stainless steel nut
Freq. 40GHz
VSWR 1.30:1

Type 2.92 Female
P/N 2.92-K-03-00
Code 46
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.92 F Bulkhead
P/N 2.92-EK-03-00
Code 47
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.4 Male
P/N 2.4-J-12-00
Code 300
Mat. Brass body with stainless steel nut
Freq. 50GHz
VSWR 1.30:1

Type 2.4 Male
P/N 2.4-J-04-00
Code 80
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.4 Female
P/N 2.4-K-07-00
Code 48
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.4 F Bulkhead
P/N 2.4-EK-01-00
Code 150
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type SMP Male
P/N SMP-J-10-00
Code 36V
Mat. Brass
Freq. 18GHz
VSWR 1.25:1

Type SMP Female
P/N SMP-K-01-00
Code 33
Mat. Brass
Freq. 40GHz
VSWR 1.35:1

Type SMP Female RA
P/N SMP-KW-06-00
Code 362
Mat. Brass
Freq. 26.5GHz
VSWR 1.30:1

Type SSMP Female RA
P/N SSMP-KW-02-00
Code 86
Mat. Brass
Freq. 40GHz
VSWR 1.40:1

Type SSMP Male RA
P/N SSMP-JW-01-00
Code 9C
Mat. Brass
Freq. 40GHz
VSWR 1.25:1

Type 1.0/2.3 Male
P/N 1023-J-01-00
Code 3C
Mat. Brass
Freq. 18GHz
VSWR 1.30:1

Type 1.0/2.3 Female
P/N 1023-K-01-00
Code 3D
Mat. Brass
Freq. 18GHz
VSWR 1.30:1

Type MCX Male
P/N MCX-J-01-00
Code 37
Mat. Brass
Freq. 12GHz
VSWR 1.20:1

Type SSMP Female
P/N SSMP-K-21-00
Code 240
Mat. Brass
Freq. 40GHz
VSWR 1.35:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(≤)			
	Connector I	Connector 2	m	0.1~1	1~12	12~26.5	26.5~40	0.1~1	1~12	12~26.5	26.5~40
				GHz				GHz			
C25F-011-011-0.2M	SMA Male	SMA Male	0.2	0.8	1.1	1.7		1.15	1.20	1.20	
C25F-011-011-0.3M	SMA Male	SMA Male	0.3	1.1	1.3	2.3		1.15	1.30	1.30	
C25F-011-011-0.5M	SMA Male	SMA Male	0.5	1.7	2.4	3.6		1.15	1.30	1.30	
C25F-37-37-0.2M	MCX Male	MCX Male	0.2	0.8	1.1			1.20	1.25		
C25F-37-37-0.3M	MCX Male	MCX Male	0.3	1.1	1.3			1.20	1.25		
C25F-37-37-0.5M	MCX Male	MCX Male	0.5	1.7	2.4			1.20	1.25		
C25F-37-37-0.2M	SMP Female	SMP Female	0.2	0.8	1.1	1.7		1.15	1.25	1.25	
C25F-37-37-0.2M1	SMP Female	SMP Female	0.2	0.8	1.1	1.7	2.1	1.15	1.25	1.25	1.40
C25F-37-37-0.3M	SMP Female	SMP Female	0.3	1.1	1.3	2.3		1.15	1.25	1.25	
C25F-37-37-0.3M1	SMP Female	SMP Female	0.3	1.1	1.3	2.3	2.9	1.15	1.25	1.25	1.40
C25F-37-37-0.5M	SMP Female	SMP Female	0.5	1.7	2.4	3.6		1.15	1.25	1.25	
C25F-37-37-0.5M1	SMP Female	SMP Female	0.3	1.7	2.4	3.6	4.3	1.15	1.25	1.25	1.40
C25F-37-383-0.2M	SMP Female	SMP Female RA	0.2	0.8	1.1	1.7		1.15	1.25	1.40	
C25F-37-383-0.2M	SMP Female	SMP Female RA	0.3	1.1	1.3	2.3		1.15	1.25	1.40	
C25F-37-383-0.5M	SMP Female	SMP Female RA	0.3	1.7	2.4	3.6		1.25	1.25	1.40	
C25F-383-383-0.2M	SMP Female RA	SMP Female RA	0.2	0.8	1.1	1.7		1.15	1.25	1.40	
C25F-383-383-0.3M	SMP Female RA	SMP Female RA	0.3	1.1	1.3	2.3		1.15	1.25	1.40	
C25F-383-383-0.5M	SMP Female RA	SMP Female RA	0.3	1.7	2.4	3.6		1.15	1.25	1.40	

C25L Ultra Flexible & Durable .047 Cable Assembly

Very stable performance over flexure, ideal for connection and jumper requiring extremely limited installation space & high reliability

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.29	Solid SPC
2	Dielectric	0.92	FEP
3	Outer conductor	1.05	SPC Strip
4	Outer shield	1.17	SPC Braid
5	Jacket	1.42	FEP

Features & Advantage

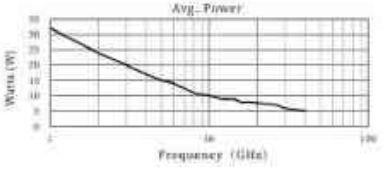
- Ultra flexible and durable
- High shielding effectiveness
- Very stable performance over bending

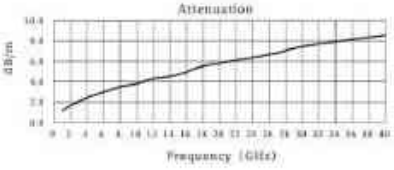
Mechanical & Environmental

Bend Radius installation (mm)	3
Bend Radius repeated (mm)	6
Weight (g/m)	5.2
Temp. Operating (°C)	-45 ~ +125

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	<-100
Velocity of Propagation(%)	70	Cut Off Frequency(GHz)	117
Delay Time (ns/m)	4.76	Flex. Phase Stability*	±1°@60GHz
Capacitance (pF/m)	93	Temp. Phase Stability PPM(-55~+85℃)	1500
Voltage Withstand (V)	750	Amplitude Stability*dB@(0.1GHz)*	< ±0.05





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40	50
Attenuation (dB/m)	1.17	1.68	2.08	2.42	2.72	3.00	3.51	3.93	4.30	4.63	4.96	5.51	6.74	7.44	8.57	9.95
Avg. Power (W)	32	24	20	17	15	14	11	10	9	9	8	8	7	6	5	4.3

Part Numbering Code

C25L - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

"If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA JD-01-00
Code 01
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.25:1

Type 2.92 Male
P/N 2.92-J-07-00
Code 40
Mat. Stainless steel
Freq. 40GHz
VSWR 1.35:1

Type 2.92 Female
P/N 2.92-K-03-00
Code 46
Mat. Stainless steel
Freq. 40GHz
VSWR 1.35:1

Type SMP Female
P/N SMP-K-01-00
Code 37
Mat. Brass
Freq. 40GHz
VSWR 1.35:1

Type SMP Female RA
P/N SMP-KW-03-00
Code 280
Mat. Brass
Freq. 26.5GHz
VSWR 1.25:1

Type SSMP Male
P/N 1.0M/SSMP-J-10-00
Code 89
Mat. Brass
Freq. 18GHz
VSWR 1.30:1

Type SSMP Female RA
P/N SSMP-KW-02-00
Code 86
Mat. Brass
Freq. 40GHz
VSWR 1.45:1

Type SSMP F Bulkhead
P/N SSMP-KY-02-00
Code 0X
Mat. Brass
Freq. 40GHz
VSWR 1.45:1

Type MCX Male
P/N MCX-J-01-00
Code 22
Mat. Brass
Freq. 10GHz
VSWR 1.20:1

Note: Customized connectors are available on request.

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation (insertion Loss (dB)				VSWR(1)			
	Connector 1	Connector 2	m	DC~6	6~12	12~26.5	26.5~40	DC~6	6~12	12~26.5	26.5~40
				GHz				GHz			
C25L-011-011-0.2M	SMA Male	SMA Male	0.2	0.8	1.2	1.9		1.15	1.20	1.30	
C25L-011-011-0.3M	SMA Male	SMA Male	0.3	1.1	1.7	2.6		1.15	1.20	1.30	
C25L-011-011-0.5M	SMA Male	SMA Male	0.5	1.8	2.6	4.0		1.15	1.20	1.30	
C25L-27-27-0.2M	MCX Male	MCX Male	0.2	0.8	1.2			1.20	1.25		
C25L-27-27-0.3M	MCX Male	MCX Male	0.3	1.1	1.7			1.20	1.25		
C25L-27-27-0.5M	MCX Male	MCX Male	0.5	1.8	2.6			1.20	1.25		
C25L-37-37-0.2M	SMP Female	SMP Female	0.2	0.8	1.2	1.9		1.10	1.25	1.30	
C25L-37-37-0.2MH	SMP Female	SMP Female	0.2	0.8	1.2	1.9	2.6	1.10	1.25	1.30	1.40
C25L-37-37-0.3M	SMP Female	SMP Female	0.3	1.1	1.7	2.6		1.10	1.25	1.30	
C25L-37-37-0.3MH	SMP Female	SMP Female	0.3	1.1	1.7	2.6	3.3	1.10	1.25	1.30	1.40
C25L-37-37-0.5M	SMP Female	SMP Female	0.5	1.8	2.6	4.0		1.10	1.25	1.30	
C25L-37-37-0.5MH	SMP Female	SMP Female	0.5	1.8	2.6	4.0	5.3	1.10	1.25	1.30	1.40
C25L-37-380-0.2M	SMP Female	SMP Female RA	0.2	0.8	1.2	1.9		1.15	1.25	1.40	
C25L-37-380-0.3M	SMP Female	SMP Female RA	0.3	1.1	1.7	2.6		1.15	1.25	1.40	
C25L-37-380-0.5M	SMP Female	SMP Female RA	0.5	1.8	2.6	4.0		1.15	1.25	1.40	
C25L-380-380-0.2M	SMP Female RA	SMP Female RA	0.2	0.8	1.2	1.9		1.15	1.25	1.40	
C25L-380-380-0.3M	SMP Female RA	SMP Female RA	0.3	1.1	1.7	2.6		1.15	1.25	1.40	
C25L-380-380-0.5M	SMP Female RA	SMP Female RA	0.5	1.8	2.6	4.0		1.15	1.25	1.40	

C29 Ultra Flexible & Durable .086 Cable Assembly with High Mechanical Strength

Very stable performance over flexure, ideal for applications requiring extremely limited installation space & high reliability

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.51	Solid SPC
2	Dielectric	1.65	PEP
3	Outer conductor	1.91	SPC Strip
4	Outer shield	2.16	High Strength SPC Braid
5	Jacket	2.57	PEP

Features & Advantage

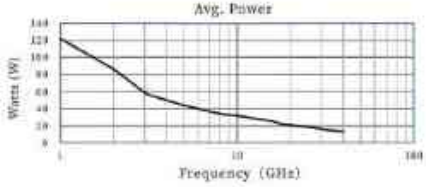
- High strength braid
- Very stable performance over bending
- Ultra flexible and durable

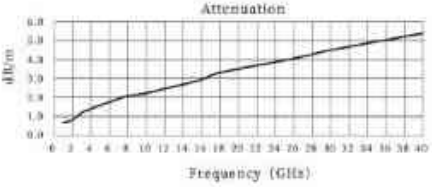
Mechanical & Environmental

Bend Radius: installation (mm)	2.0
Bend Radius: repeated (mm)	15.2
Weight (g/m)	19.36
Temp. Operating (°C)	-65~+125

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	>-100
Velocity of Propagation(%)	70	Cut Off Frequency(GHz)	62
Delay Time (ns/m)	4.76	Flex. Phase Stability*	±2°@40GHz
Capacitance (pF/m)	95	Temp. Phase Stability PPM/(-55~+165°C)	1908
Voltage Withstand (V)	1200	Amplitude Stability*(dB@18GHz)*	<±0.05





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40	50
Attenuation (dB/m)	0.66	0.81	1.19	1.40	1.58	1.76	2.07	2.22	2.46	2.68	2.92	3.31	4.10	4.50	5.38	6.31
Avg. Power (W)	122	86	59	50	44	40	34	32	29	27	25	22	18	16	13	11

Connector & Assembly Information

Part Numbering Code

C29 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J302-04
Code 01
Mat. Brass body with stainless steel nut
Freq. 26.5GHz
VSWR 1.20:1

Type SMA Male RA
P/N SMA-JW-05-00
Code 05
Mat. Brass body with stainless steel nut
Freq. 18GHz
VSWR 1.35:1

Type 2.92 Male
P/N 2.92-J-03-00A
Code 40
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.4 Male
P/N 2.4-J-02-00
Code 50
Mat. Stainless steel
Freq. 40GHz
VSWR 1.35:1

Type SMP Female
P/N SMP-K-02-00
Code 37
Mat. Brass
Freq. 40GHz
VSWR 1.40:1

Type SMP Female RA
P/N SMP-KW-02-00
Code 38
Mat. Brass
Freq. 26.5GHz
VSWR 1.30:1

Type SSMP Male
P/N SSMP-J-02-00
Code 0B
Mat. Brass
Freq. 40GHz
VSWR 1.40:1

Type SSMP F Bulkhead
P/N SSMP-KY-01-00
Code 0X
Mat. Brass
Freq. 40GHz
VSWR 1.40:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
				GHz				GHz			
C29-01-01-L	SMA Male	SMA Male	0.2	0.8	1.3	1.6		1.20	1.30	1.35	
			0.5	1.2	2.0	2.5					
			1.0	2.1	3.7	4.5					
C29-37-37-LC C29-37-38-L(26.5G) C29-38-38-L(26.5G)	SMP Female SMP Female SMP Female RA	SMP Female SMP Female RA SMP Female RA	0.2	0.7	1.0	1.2	1.9	1.20	1.30	1.35	1.35
			0.3	0.8	1.3	1.6	2.4				
			0.4	1.0	1.7	2.0	3.0				
			0.5	1.2	2.0	2.5	3.5				
			1.0	2.1	3.7	4.5	6.2				
			2.0	3.8	7.0	8.6	11.6				

C29H Ultra Flexible and Low Loss .086 Cable Assembly with Excellent Phase Stability over Flexure and Temp.

Ideal for applications requiring extremely limited installation space and high reliability

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.64	Solid SPC
2	Dielectric	1.69	PFA
3	Outer conductor	1.94	SPC Strip
4	Outer shield	2.18	SPC Braid
5	Jacket	2.57	FEP

Features & Advantage

- Ultra flexible and durable
- Ultra low loss
- Velocity of propagation: 86%
- Excellent phase stability over flexure and temperature
- Very stable performance over bending

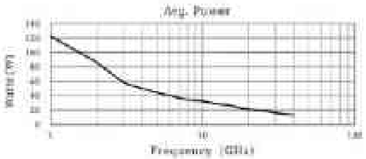
Mechanical & Environmental

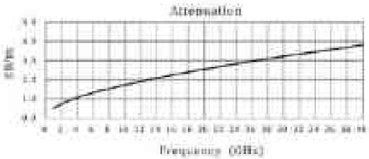
Bend Radius: installation (mm)	5
Bend Radius: repeated (mm)	10
Weight (g/m)	15.4
Temp. Operating (°C)	-55~+125

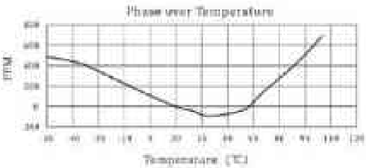
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	< -100
Velocity of Propagation(%)	86	Cut-Off Frequency(GHz)	70
Delay Time (ns/m)	3.86	Flex. Phase Stability*	15°@18GHz
Capacitance (pF/m)	77.5	Temp. Phase Stability PPM(-55~+85°C)	500
Voltage Withstand (V)	1200	Amplitude Stability*(dB@18GHz)*	< ±0.05

* Phase and amplitude stability test method：to wrap the cable 360° around a mandrel which radius is 10 times the cable diameter







Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40	50
Attenuation (dB/m)	0.51	0.73	0.91	1.06	1.19	1.32	1.54	1.74	1.92	2.09	2.25	2.41	3.00	3.22	3.81	4.53
Avg. Power (W)	122	86	59	50	44	40	34	32	29	27	25	22	18	16	13	11

Part Numbering Code

C29H - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

**If only one connector requested, one of the connector code can be replaced with '00'*

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J-25-00
Code 01
Mat. Brass body with stainless steel nut
Freq. 26.5GHz
VSWR 1.25:1

Type SMA Male RA
P/N SMA-JW-05-00
Code 05
Mat. Brass body with stainless steel nut
Freq. 18GHz
VSWR 1.35:1

Type 2.92 Male
P/N 2.92-J-10-00
Code 40
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.4 Male
P/N 2.4-J-02-00
Code 39
Mat. Stainless steel
Freq. 40GHz
VSWR 1.35:1

Type SMP Female
P/N SMP-K-02-00
Code 37
Mat. Brass
Freq. 40GHz
VSWR 1.40:1

Type SMP Female RA
P/N SMP-KW-02-00
Code 38
Mat. Brass
Freq. 26.5GHz
VSWR 1.30:1

Type SSMP Male
P/N SSMP-J-02-00
Code 08
Mat. Brass
Freq. 40GHz
VSWR 1.45:1

Type SSMP F Bulkhead
P/N SSMP-KY-01-00
Code 0X
Mat. Brass
Freq. 40GHz
VSWR 1.45:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(≤)			
	Connector 1	Connector 2	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
				GHz				GHz			
C29H-01-01-L	SMA Male	SMA Male	0.5	0.7	1.2	1.4		1.20	1.30	1.35	
			0.8	1.0	1.7	2.0					
			1.0	1.6	2.9	4.5					
C29H-37-37-L C29H-37-38-L(26.5GHz) C29H-38-38-L(26.5GHz)	SMP Female SMP Female SMP Female RA	SMP Female SMP Female RA SMP Female RA	0.2	0.8	0.9	1.1	1.5	1.20	1.30	1.35	1.35
			0.3	0.7	1.2	1.4	1.9				
			0.4	0.9	1.5	1.7	2.3				
			0.5	1.0	1.7	2.0	2.7				
			1.0	1.6	2.9	3.5	4.6				
			2.0	3.1	5.3	6.5	8.4				

C29F Ultra Flexible & Low Loss .086 Cable Assembly with Excellent Phase Stability over Flexure and Temp.

Ideal for applications requiring extremely limited installation space & high reliability

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.57	Solid SPC
2	Dielectric	1.62	FEP
3	Outer conductor	1.94	SPC Strip
4	Outer shield	2.11	SPC Braid
5	Jacket	2.54	FEP

Features & Advantage

- Ultra flexible and durable
- Low loss
- Excellent phase stability over flexure and temperature
- Very stable performance over bending

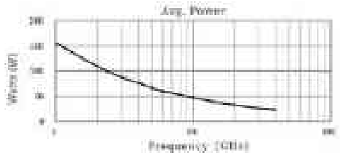
Mechanical & Environmental

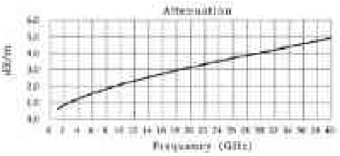
Bend Radius: installation (mm)	5
Bend Radius: repeated (mm)	10
Weight (g/m)	16.4
Temp. Operating (°C)	-65~+165

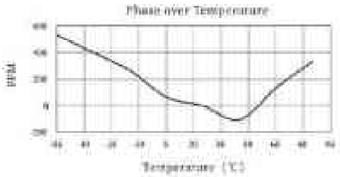
Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	< -100
Velocity of Propagation(%)	80	Cut-Off Frequency(GHz)	70
Delay Time (ns/m)	4.167	Flex. Phase Stability*	±4°@50GHz
Capacitance (pF/m)	83.3	Temp. Phase Stability (PPM,-40~+50°C)	530
Voltage Withstand (V)	1200	Amplitude Stability*(dB@18GHz)*	≤±0.04

* [illegible]







Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40	50	67
Attenuation (dB/m)	0.58	0.86	1.07	1.23	1.41	1.56	1.84	2.09	2.32	2.54	2.75	2.95	3.74	4.07	4.92	5.71	6.20
Avg. Power (W)	135.7	109.1	87.6	76.1	66.2	59.8	52.8	46.5	42.3	38.8	35.9	34.1	27.5	25.6	21.9	18.9	17.4

Part Numbering Code

C29F - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

"If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

 Type SMA Male P/N SMA-J382-04 Code 01 Mat. Brass body with stainless steel nut Freq. 26.5GHz VSWR 1.25:1	 Type SMA Male RA P/N SMA-JW-05-00 Code 05 Mat. Brass body with stainless steel nut Freq. 18GHz VSWR 1.35:1	 Type 2.92 Male P/N 2.92-J-13-00 Code 402 Mat. Stainless steel Freq. 40GHz VSWR 1.35:1	 Type 2.4 Male P/N 2.4-J-02-00 Code 59 Mat. Stainless steel Freq. 50GHz VSWR 1.35:1
 Type 2.4 Male P/N 2.4-J-13-00 Code 701 Mat. Brass body with stainless steel nut Freq. 50GHz VSWR 1.30:1	 Type 2.4 Female P/N 2.4-K-13-00 Code 48 Mat. Stainless steel Freq. 50GHz VSWR 1.20:1	 Type 2.4 Female P/N 2.4-K-14-00 Code 481 Mat. Stainless steel Freq. 50GHz VSWR 1.30:1	 Type 1.85 Male P/N 1.85-J-02-00 Code 69 Mat. Stainless steel Freq. 67GHz VSWR 1.30:1
 Type 1.85 Female P/N 1.85-K-02-00 Code 09 Mat. Stainless steel Freq. 67GHz VSWR 1.30:1	 Type SSMA Male P/N SSMA-J-04-00 Code 25 Mat. Stainless steel Freq. 26.5GHz VSWR 1.30:1	 Type SMP Male P/N SMP-J-09-00 Code 36 Mat. Brass Freq. 18GHz VSWR 1.30:1	 Type SMP Male P/N SMP-J-11-00 Code 34V Mat. Brass Freq. 18GHz VSWR 1.25:1
 Type SMP Female P/N SMP-K-02-00 Code 37 Mat. Brass Freq. 40GHz VSWR 1.40:1	 Type SMP Female RA P/N SMP-KW-02-00 Code 38 Mat. Brass Freq. 26.5GHz VSWR 1.30:1	 Type SSMP Male P/N SSMP-J-02-00 Code 08 Mat. Brass Freq. 40GHz VSWR 1.40:1	 Type SSMP Female RH P/N SSMP-KY-01-00 Code 05 Mat. Brass Freq. 40GHz VSWR 1.30:1
 Type SMMP Female P/N SMMP-J-01-00 Code 1A Mat. Brass Freq. 65GHz VSWR 1.30:1	 Type SMMP Male P/N SMMP-K-01-00 Code 1B Mat. Brass Freq. 40GHz VSWR 1.40:1	Note: Customized connectors are available on request	

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
				GHz				GHz			
C29F-01-01-L	SMA Male	SMA Male	0.3	0.8	1.3	1.7		1.20	1.30	1.35	
			0.5	1.1	1.9	2.4					
			1.0	1.9	3.4	4.3					
C29F-37-37-L	SMP Female	SMP Female	0.2	0.6	1.0	1.2	1.9	1.20	1.30	1.35	1.35
			0.3	0.8	1.3	1.7	2.4				
C29F-37-38-L(26.5G)	SMP Female	SMP Female RA	0.4	1.0	1.7	2.1	2.7				
C29F-38-38-L(26.5G)	SMP Female RA	SMP Female RA	0.5	1.1	1.9	2.4	3.2				
			1.0	1.9	3.4	4.3	5.7				
			2.0	3.5	6.4	8.1	10.7				

C29S Superbend Ultra Flexible & Durable .086 Cable Assembly with High Mechanical Strength

Very stable performance over flexure, ideal for applications requiring extremely limited installation space & high reliability

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.56	Solid SPC
2	Dielectric	1.70	Low Density PTFE
3	Outer conductor	1.85	SPC Strip
4	Middle Layer	1.98	Aluminum Foil
5	Outer shield	2.24	Stainless Steel Braid
6	Jacket	2.64	FEP

Features & Advantage

- Low loss and high shielding
- Small bending radius, very stable performance over bending
- Stainless steel braided wire structure, ultra high mechanical strength, Tensile and flexural

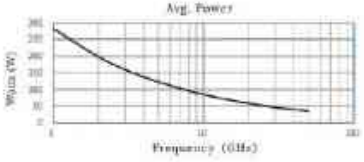
Mechanical & Environmental

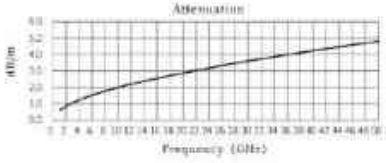
Bend Radius: installation (mm)	5
Bend Radius: repeated (mm)	10
Weight (g/m)	17
Temp, Operating (°C)	-55~+165

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	<-90
Velocity of Propagation(%)	76	Cut-Off Frequency(GHz)	65
Delay Time (ns/m)	4.5	Flex. Phase Stability*	±4°@40GHz
Capacitance (pF/m)	90.2	Amplitude Stability*(dB@18GHz)*	<±0.05
Voltage Withstand (V)	600		

*Phase and amplitude stability test method: to wrap the cable 360° around a mandrel which radius is 10 times the cable diameter





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40	50	67
Attenuation (dB/m)	0.60	0.86	1.06	1.23	1.38	1.52	1.77	1.99	2.19	2.38	2.56	2.73	3.37	3.61	4.24	4.81	5.66
Avg. Power (W)	202	198	160	138	123	112	95	85	77	71	66	62	20	46	40	35.1	31

Connector & Assembly Information

Part Numbering Code

C29S - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

"If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IMD	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-JD-02-00
Code 01
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.25:1

Type N Male
P/N N-J-43-00
Code 07
Mat. Stainless steel
Freq. 18GHz
VSWR 1.30:1

Type 2.92 Male
P/N 2.92-JD-01-00
Code 40
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.4 Male
P/N 2.4-JD-01-00
Code 39
Mat. Stainless steel
Freq. 50GHz
VSWR 1.30:1

Type SMP Female
P/N SMP-JD-01-00
Code 37
Mat. Brass
Freq. 40GHz
VSWR 1.30:1

Type SMA Male
P/N SMA-JD-01-00
Code 25
Mat. Brass body with stainless steel nut
Freq. 26.5GHz
VSWR 1.30:1

Smooth

Type SMP Male
P/N SMP-JD-01-00
Code 30
Mat. Stainless steel
Freq. 40GHz
VSWR 1.35:1

Type SMP RA Female
P/N SMP-KW-16-00
Code 38
Mat. Brass
Freq. 18GHz
VSWR 1.30:1

Type 1.85 Male
P/N 1.85-JD-01-00
Code 0P
Mat. Stainless steel
Freq. 67GHz
VSWR 1.30:1

Type 1.85 Female
P/N 1.85-KD-01-00
Code 0N
Mat. Stainless steel
Freq. 67GHz
VSWR 1.30:1

Type 2.92 Male
P/N 2.92-J-15-00
Code 40B
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type N Female RH
P/N N-KY-04-00
Code 09
Mat. Stainless steel
Freq. 18GHz
VSWR 1.20:1

Type SMA Male
P/N SMA-J-01-00
Code 010
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.30:1

Type SSMP Female
P/N SSMP-KD-01-00
Code 24
Mat. Brass
Freq. 40GHz
VSWR 1.35:1

Type SMA Female RH
P/N SMA-KYD-01-00
Code 03
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.30:1

Full Detail

Type SMP Male RH
P/N SMP-JYD-02-00F
Code 94PD
Mat. Stainless steel
Freq. 18GHz
VSWR 1.20:1

Type TNC Male
P/N TNC-JD-01-00
Code 11
Mat. Stainless steel
Freq. 18GHz
VSWR 1.30:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation (insertion Loss (dB)				VSWR(1)			
	Connector 1	Connector 2	m	DC-18	18-26.5	26.5-40	40-50	DC-18	18-26.5	26.5-40	40-50
				GHz				GHz			
C29S-01-01-0.1M	SMA Male	SMA Male	0.1	0.7	0.8			1.25	1.30		
C29S-01-01-0.2M	SMA Male	SMA Male	0.2	1.0	1.2			1.35	1.50		
C29S-01-01-0.3M	SMA Male	SMA Male	0.3	1.2	1.5			1.35	1.50		
C29S-07-37-0.1M	SMP Female	SMP Female	0.1	0.7	0.8	1.0		1.30	1.35	1.35	
C29S-07-37-0.2M	SMP Female	SMP Female	0.2	1.0	1.2	1.4		1.40	1.50	1.50	
C29S-07-37-0.3M	SMP Female	SMP Female	0.3	1.2	1.5	1.9		1.50	1.50	1.50	
C29S-08-38-0.1M	2.4 Male	2.4 Male	0.1	0.7	0.8	1.0	1.1	1.30	1.30	1.35	1.35
C29S-08-38-0.2M	2.4 Male	2.4 Male	0.2	1.0	1.2	1.4	1.5	1.30	1.30	1.35	1.35
C29S-08-38-0.3M	2.4 Male	2.4 Male	0.3	1.2	1.5	1.9	2.0	1.30	1.30	1.35	1.35
C29S-40-40-0.1M	2.92 Male	2.92 Male	0.1	0.7	0.8	1.0		1.30	1.35	1.35	
C29S-40-40-0.2M	2.92 Male	2.92 Male	0.2	1.0	1.2	1.4		1.30	1.35	1.35	
C29S-40-40-0.3M	2.92 Male	2.92 Male	0.3	1.2	1.5	1.9		1.30	1.35	1.35	

- Low Loss
- Low VSWR
- High Shielding Effectiveness
- High Retention Force
- Eliminates Need for Costly Right Angle Connectors

Connectors Available

SMA Male	26.5GHz
2.92mm Male	40GHz
2.4mm Male	50GHz
SMP Female	40GHz
1.85mm Male	67GHz

E Series --Semi-rigid Cable Assemblies

BENEFITS:

★ Compliant with MIL-C-17 spec

★ Wideband frequency coverage, DC- 67GHz including .047 cable

★ Low loss, low VSWR

★ High shielding effectiveness

★ MIcable uses a proprietary computerized bending machine which can form any 3D

« ¬

★ Good phase matching & tracking performance owing to repeatable & consistent performance

★Field measuring & cabling service

APPLICATIONS:

★ Base station equipment test

★ Electronic countermeasures

★ Connection between systems of medical, measurement & wireless communication equipment

★ Airborne, ground & sea-based systems, both commercial & military

★ High frequency signal transmission

E01 .047 Semi-rigid Cable Assembly

High-end application components such as high frequency, low loss, 3D bending, phase matching and tracking are available

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.29	Solid SPCW
2	Dielectric	0.94	PTFE
3	Outer shield	1.19	Tin or Ternary Alloy Plated Copper

Features & Advantage

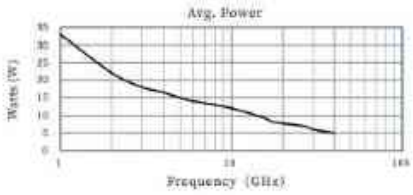
- Compliant with MIL-C-17 spec
- Very good shielding effectiveness
- Good mechinical & electrical performance

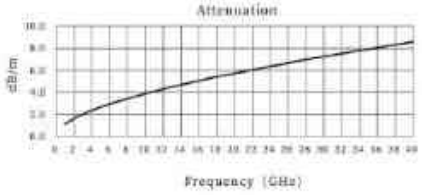
Mechanical & Environmental

Bend Radius/installation (mm)	4.2
Weight (g/m)	6
Temp, Operating (℃)	-55 ~ +125

Electrical

Impedance (Ω/nm)	50	Shielding Effectiveness(dB)	<-120
Velocity of Propagation(%)	70	Cut-Off Frequency(GHz)	159
Delay Time (ns/m)	4.7	Capacitance (pF/m)	95
Voltage Withstand (V)	250		





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40
Attenuation (dB/m)	1.14	1.64	2.02	2.36	2.66	2.95	3.44	3.89	4.30	4.69	5.05	5.40	6.71	7.25	8.57
Avg. Power (W)	33	22	19	16.3	15	14	13	12	11	10	9	8	7	6	5

Part Numbering Code

E01 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

"If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
R	Bending
PM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PUPVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J-10-00A
Code 01
Mat. Brass
Freq. 6GHz
VSWR 1.25:1

Type SMA Female
P/N SMA-K-02-00
Code 02
Mat. Brass
Freq. 6GHz
VSWR 1.30:1

Type SMA Male
P/N SMA-JD-01-00
Code 015
Mat. Stainless steel
Freq. 26.5GHz
VSWR 1.25:1

Type 2.92 Male
P/N 2.92-J-07-00
Code 40
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.92 Female
P/N 2.92-K-03-00
Code 45
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type SMP Female
P/N SMP-K-02-00
Code 37
Mat. Brass
Freq. 40GHz
VSWR 1.35:1

Type SMP Female RA
P/N SMP-KW-03-00
Code 38
Mat. Brass
Freq. 40GHz
VSWR 1.35:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~2	2~6	6~18	18~26.5 GHz	DC~2	2~6	6~18	18~26.5 GHz
E01-01-01-0.2M	SMA Male	SMA Male	0.2	1.2	2.0			1.15	1.30		
E01-01-01-1M	SMA Male	SMA Male	1.0	2.2	3.6			1.15	1.30		
E01-02-02-0.5M	SMP Female	SMP Female	0.5	1.2	2.0			1.15	1.30		
E01-02-02-1M	SMP Female	SMP Female	1.0	2.2	3.6			1.15	1.30		
E01-015-015-0.2M	SMA Male	SMA Male	0.2	0.6	0.9	1.5	1.9	1.13	1.15	1.30	1.35
E01-015-015-0.5M	SMA Male	SMA Male	0.5	0.9	1.5	2.1	2.7	1.13	1.15	1.30	1.35
E01-015-015-0.8M	SMA Male	SMA Male	0.8	1.2	1.9	3.3	4.1	1.13	1.15	1.30	1.35
E01-37-37-0.2M	SMP Female	SMP Female	0.2	0.6	0.9	1.5	1.9	1.13	1.15	1.35	1.40
E01-37-37-0.5M	SMP Female	SMP Female	0.5	0.9	1.5	2.1	2.7	1.13	1.15	1.35	1.40
E01-37-37-0.8M	SMP Female	SMP Female	0.8	1.2	1.9	3.3	4.1	1.13	1.15	1.35	1.40
E01-37-38-0.2M	SMP Female	SMP Female RA	0.2	0.6	0.9	1.5	1.9	1.13	1.15	1.35	1.40
E01-37-38-0.5M	SMP Female	SMP Female RA	0.5	0.9	1.5	2.1	2.7	1.13	1.15	1.35	1.40
E01-37-38-0.8M	SMP Female	SMP Female RA	0.8	1.2	1.9	3.3	4.1	1.13	1.15	1.35	1.40
E01-38-38-0.2M	SMP Female RA	SMP Female RA	0.2	0.6	0.9	1.5	1.9	1.13	1.15	1.35	1.40
E01-38-38-0.5M	SMP Female RA	SMP Female RA	0.5	0.9	1.5	2.1	2.7	1.13	1.15	1.35	1.40
E01-38-38-0.8M	SMP Female RA	SMP Female RA	0.8	1.2	1.9	3.3	4.1	1.13	1.15	1.35	1.40

E02 .086 Semi-rigid Cable Assembly

High-end application components such as high frequency, low loss, 3D bending, phase matching and tracking are available

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.51	Solid SPCW
2	Dielectric	1.68	PTFE
3	Outer shield	2.20	Tin or Ternary Alloy Plated Copper

Features & Advantage

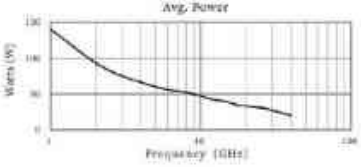
- Compliant with MIL-C-17 spec
- Very good shielding effectiveness
- Good mechanical & electrical performance

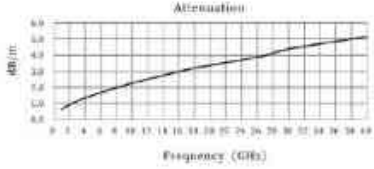
Mechanical & Environmental

Bend Radius: installation (mm)	3.2
Weight (g/m)	21.3
Temp, Operating (°C)	-55 ~ +125

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	<-120
Velocity of Propagation(%)	70	Cut Off Frequency(GHz)	40
Delay Time (ns/m)	4.7	Capacitance (pF/m)	95
Voltage Withstand (V)	1500		





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40
Attenuation (dB/m)	0.63	0.91	1.15	1.34	1.52	1.67	1.98	2.25	2.51	2.75	2.98	3.20	3.93	4.39	5.15
Avg. Power (W)	140	93	75	66	60	56	52	47	42	40	37	34	30	27	20

Connector & Assembly Information

Part Numbering Code

E02 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of and B
- Connector code of and A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-JSB2-04
Code 012
Mat. Brass body with stainless steel nut
Freq. 26.5GHz
VSWR 1.25:1

Type SMA Male RA
P/N SMA-JW-05-00
Code 055
Mat. Brass body with stainless steel nut
Freq. 18GHz
VSWR 1.30:1

Type 2.92 Male
P/N 2.92-J-02-0SB
Code 40
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type SMP Female
P/N SMP-K-02-00
Code 371
Mat. Brass
Freq. 26.5GHz
VSWR 1.30:1

Type SMP Female RA
P/N SMP-KW-02-00
Code 382
Mat. Brass
Freq. 26.5GHz
VSWR 1.30:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(≤)			
	Connector 1	Connector 2	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
				GHz				GHz			
E02-012-012-0.1M	SMA Male	SMA Male	0.1	0.9	1.2	0.8		1.25	1.30	1.35	
E02-012-012-0.2M	SMA Male	SMA Male	0.2	0.6	1.0	1.2		1.25	1.30	1.35	
E02-012-012-0.3M	SMA Male	SMA Male	0.3	0.6	1.3	1.6		1.25	1.30	1.35	
E02-012-012-0.4M	SMA Male	SMA Male	0.4	1.0	1.0	2.0		1.25	1.30	1.35	
E02-012-012-0.5M	SMA Male	SMA Male	0.5	1.2	2.0	2.5		1.25	1.30	1.35	
E02-40-40-0.1M	2.92 Male	2.92 Male	0.1	0.5	1.7	0.8	1.1	1.15	1.30	1.35	1.40
E02-40-40-0.2M	2.92 Male	2.92 Male	0.2	0.9	1.0	1.2	1.5	1.15	1.30	1.35	1.40
E02-40-40-0.3M	2.92 Male	2.92 Male	0.3	0.9	1.3	1.6	2.1	1.15	1.30	1.35	1.40
E02-40-40-0.4M	2.92 Male	2.92 Male	0.4	1.0	1.6	2.0	2.3	1.15	1.30	1.35	1.40
E02-40-40-0.5M	2.92 Male	2.92 Male	0.5	1.2	2.0	2.5	3.1	1.15	1.30	1.35	1.40
E02-055-055-0.1M	SMA Male RA	SMA Male RA	0.1	0.9	1.6			1.25	1.35		
E02-055-055-0.2M	SMA Male RA	SMA Male RA	0.2	0.6	1.1			1.25	1.35		
E02-055-055-0.3M	SMA Male RA	SMA Male RA	0.3	0.6	1.4			1.25	1.35		
E02-371-371-0.1M	SMP Female	SMP Female	0.1	0.5	1.2	0.6		1.20	1.30	1.35	
E02-371-371-0.2M	SMP Female	SMP Female	0.2	0.6	1.0	1.2		1.20	1.30	1.35	
E02-371-371-0.3M	SMP Female	SMP Female	0.3	0.8	1.3	1.6		1.20	1.30	1.35	
E02-382-382-0.1M	SMP Female RA	SMP Female RA	0.1	0.5	1.2	0.6		1.20	1.30	1.40	
E02-382-382-0.2M	SMP Female RA	SMP Female RA	0.2	0.6	1.0	1.2		1.20	1.30	1.40	
E02-382-382-0.3M	SMP Female RA	SMP Female RA	0.3	0.8	1.3	1.6		1.20	1.30	1.40	

E03 .141 Semi-rigid Cable Assembly

High-end application components such as high frequency, low loss, 3D bending, phase matching and tracking are available

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.95	Solid SPCW
2	Dielectric	3.00	PTFE
3	Outer shield	3.60	Tin or Ternary Alloy Plated Copper

Features & Advantage

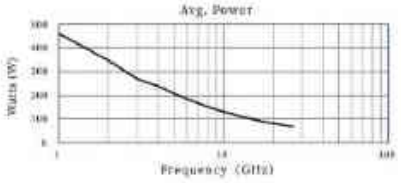
- Compliant with MIL-C-17 spec.
- Very good shielding effectiveness
- Good mechinical & electrical performance

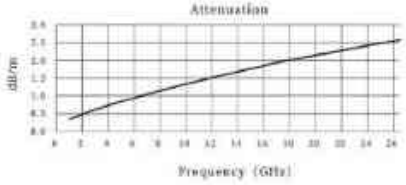
Mechanical & Environmental

Bend Radius: installation (mm)	12.5
Weight (g/m)	49.4
Temp, Operating (°C)	-55~+125

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	<-120
Velocity of Propagation(%)	70	Cut-Off Frequency(GHz)	34
Delay Time (ns/m)	4.7	Capacitance (pF/m)	95
Voltage Withstand (V)	1900		





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5
Attenuation (dB/m)	0.34	0.48	0.61	0.71	0.84	0.94	1.15	1.33	1.51	1.68	1.85	2.01	2.58
Avg. Power (W)	460	340	270	229	207	165	132	111	116	104	93	87	60

Connector & Assembly Information

Part Numbering Code

E03 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

"If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DL	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J502-02
Code 012
Mat. Brass body with stainless steel nut
Freq. 26.5GHz
VSWR 1.25:1

Type SMA Male RA
P/N SMA-JW-06-00
Code 055
Mat. Brass body with stainless steel nut
Freq. 18GHz
VSWR 1.30:1

Type N Male
P/N N-J-02-00A
Code 02
Mat. Stainless steel
Freq. 18GHz
VSWR 1.25:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~2.5	2.5~6	6~18	18~26.5	DC~2.5	2.5~6	6~18	18~26.5
				GHz				GHz			
E03-012-012-0.1M	SMA Male	SMA Male	0.1	0.3	0.4	0.5	0.7	1.15	1.20	1.30	1.50
E03-012-012-0.2M	SMA Male	SMA Male	0.2	0.3	0.5	0.8	0.9	1.15	1.20	1.30	1.50
E03-012-012-0.3M	SMA Male	SMA Male	0.3	0.4	0.6	1.0	1.3	1.15	1.20	1.30	1.55
E03-012-012-0.4M	SMA Male	SMA Male	0.4	0.5	0.7	1.2	1.5	1.15	1.20	1.30	1.55
E03-012-012-0.5M	SMA Male	SMA Male	0.5	0.5	0.8	1.4	1.8	1.15	1.20	1.30	1.55
E03-056-056-0.1M	SMA RA Male	SMA RA Male	0.1	0.4	0.5	0.7		1.20	1.25	1.35	
E03-056-056-0.2M	SMA RA Male	SMA RA Male	0.2	0.5	0.6	0.9		1.20	1.25	1.35	
E03-056-056-0.3M	SMA RA Male	SMA RA Male	0.3	0.5	0.7	1.1		1.20	1.25	1.55	
E03-056-056-0.4M	SMA RA Male	SMA RA Male	0.4	0.6	0.8	1.3		1.20	1.25	1.35	
E03-056-056-0.5M	SMA RA Male	SMA RA Male	0.5	0.6	0.9	1.5		1.20	1.25	1.35	
E03-07-07-0.1M	N Male	N Male	0.1	0.3	0.4	0.6		1.15	1.20	1.35	
E03-07-07-0.2M	N Male	N Male	0.2	0.3	0.5	0.8		1.15	1.20	1.35	
E03-07-07-0.3M	N Male	N Male	0.3	0.4	0.6	1.0		1.15	1.20	1.35	
E03-07-07-0.4M	N Male	N Male	0.4	0.5	0.7	1.2		1.15	1.20	1.35	
E03-07-07-0.5M	N Male	N Male	0.5	0.5	0.8	1.4		1.15	1.20	1.35	

E04 .250 Semi-rigid Cable Assembly

High-end application components such as high frequency, low loss, 3D bending, phase matching and tracking are available

Construction

	Description	Diameter(mm)	Material
1	Center conductor	1.63	Solid SPCW
2	Dielectric	5.31	PTFE
3	Outer shield	6.35	Tin or Ternary Alloy Plated Copper

Features & Advantage

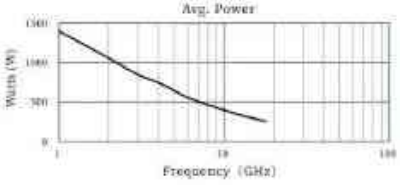
- Compliant with MIL-C-17 spec
- Very good shielding effectiveness
- Good mechanical & electrical performance

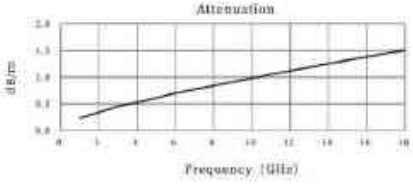
Mechanical & Environmental

Bend Radius: Installation (mm)	22.2
Weight (g/m)	155.8
Temp, Operating (°C)	-55 ~ +125

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	< -120
Velocity of Propagation(%)	70	Cut-Off Frequency(GHz)	19
Delay Time (ns/m)	4.7	Capacitance (pf/m)	93
Voltage Withstand (V)	3500		





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18
Attenuation (dB/m)	0.33	0.34	0.45	0.52	0.61	0.70	0.84	0.98	1.12	1.26	1.38	1.51
Avg. Power (W)	1400	1058	850	748	645	560	467	399	350	313	284	260

Connector & Assembly Information

Part Numbering Code

E04 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type	SMA Male
P/N	SMA-J-05-00
Code	01
Mat.	Brass
Freq.	18GHz
VSWR	1.25:1

Type	N Male
P/N	N-J-05-00
Code	07
Mat.	Brass
Freq.	18GHz
VSWR	1.25:1

Type	1.29 Male
P/N	L29-J504-01
Code	49
Mat.	Brass
Freq.	6GHz
VSWR	1.20:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(1)			
	Connector 1	Connector 2	m	DC~2.5	2.5~6	6~18	18~26.5	DC~2.5	2.5~6	6~18	18~26.5
				GHz				GHz			
E04-01-01-0.1M	SMA Male	SMA Male	0.1	0.2	0.3	0.4	0.6	1.15	1.20	1.25	1.35
E04-01-01-0.2M	SMA Male	SMA Male	0.2	0.3	0.4	0.5	0.7	1.15	1.20	1.25	1.35
E04-01-01-0.3M	SMA Male	SMA Male	0.3	0.4	0.5	0.6	0.9	1.15	1.20	1.25	1.35
E04-01-01-0.4M	SMA Male	SMA Male	0.4	0.4	0.6	0.7	1.0	1.15	1.20	1.25	1.35
E04-01-01-0.5M	SMA Male	SMA Male	0.5	0.5	0.7	0.9	1.2	1.15	1.20	1.25	1.35
E04-07-07-0.1M	N Male	N Male	0.1	0.2	0.3	0.4	0.6	1.15	1.20	1.25	1.35
E04-07-07-0.2M	N Male	N Male	0.2	0.2	0.4	0.5	0.7	1.15	1.20	1.25	1.35
E04-07-07-0.3M	N Male	N Male	0.3	0.4	0.5	0.6	0.9	1.15	1.20	1.25	1.35
E04-07-07-0.4M	N Male	N Male	0.4	0.4	0.6	0.7	1.0	1.15	1.20	1.25	1.35
E04-07-07-0.5M	N Male	N Male	0.5	0.5	0.7	0.9	1.2	1.15	1.20	1.25	1.35
E04-49-49-0.1M	1.29 Male	1.29 Male	0.1	0.3	0.3			1.20	1.25		
E04-49-49-0.2M	1.29 Male	1.29 Male	0.2	0.3	0.4			1.20	1.25		
E04-49-49-0.3M	1.29 Male	1.29 Male	0.3	0.4	0.5			1.20	1.25		
E04-49-49-0.4M	1.29 Male	1.29 Male	0.4	0.4	0.6			1.20	1.25		
E04-49-49-0.5M	1.29 Male	1.29 Male	0.5	0.5	0.7			1.20	1.25		

E05 Low Loss .086 Semi-rigid Cable Assembly

High-end application components such as high frequency, low loss, 3D bending, phase matching and tracking are available

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.56	Solid HPCW
2	Dielectric	1.68	Low density PTFE
3	Outer shield	2.18	Tin or Ternary Alloy Plated Copper

Features & Advantage

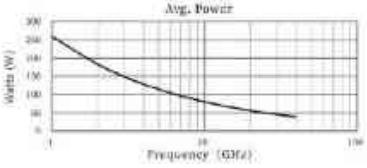
- Compliant with MIL-C-17 spec
- Very good shielding effectiveness
- Good mechanical & electrical performance

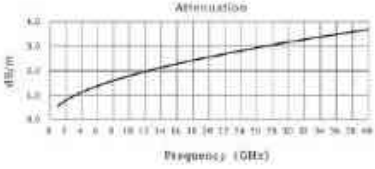
Mechanical & Environmental

Bend Radius: installation (mm)	7
Weight (g/m)	19
Temp, Operating (°C)	-55 ~ +125

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	< -120
Velocity of Propagation(%)	77	Cut-Off Frequency(GHz)	64
Delay Time (ns/m)	4.3	Capacitance (pF/m)	88
Voltage Withstand (V)	1400		





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40
Attenuation (dB/m)	0.55	0.78	0.96	1.11	1.25	1.37	1.59	1.78	1.96	2.12	2.28	2.42	2.96	3.16	3.68
Avg. Power (W)	259	183	149	128	115	104	90	80	73	67	63	59	48	45	39

Part Numbering Code

E05 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

"If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J503-04
Code 01
Mat. Brass body with stainless steel nut
Freq. 26.5GHz
VSWR 1.25:1

Type SMA Male RA
P/N SMA-JW-05-00A
Code 051
Mat. Brass body with stainless steel nut
Freq. 18GHz
VSWR 1.30:1

Type 2.92 Male
P/N 2.92-J-02-00B
Code 40
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type SMP Female
P/N SMP-K-02-00
Code 37
Mat. Brass
Freq. 26.5GHz
VSWR 1.30:1

Type SMP Female RA
P/N SMP-KW-02-00
Code 383
Mat. Brass
Freq. 26.5GHz
VSWR 1.30:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
				GHz				GHz			
E05-01-01-0.1M	SMA Male	SMA Male	0.1	0.4	0.5	0.8		1.20	1.30	1.35	
E05-01-01-0.2M	SMA Male	SMA Male	0.2	0.5	0.9	1.5		1.20	1.30	1.35	
E05-01-01-0.3M	SMA Male	SMA Male	0.3	0.6	1.3	1.4		1.20	1.30	1.35	
E05-01-01-0.4M	SMA Male	SMA Male	0.4	0.8	1.4	1.2		1.20	1.30	1.35	
E05-01-01-0.5M	SMA Male	SMA Male	0.5	0.9	1.5	2.0		1.20	1.30	1.35	
E05-40-40-0.1M	2.92 Male	2.92 Male	0.1	0.4	0.5	0.8	1.1	1.15	1.30	1.30	1.35
E05-40-40-0.2M	2.92 Male	2.92 Male	0.2	0.5	0.9	1.5	1.5	1.15	1.20	1.30	1.35
E05-40-40-0.3M	2.92 Male	2.92 Male	0.3	0.6	1.3	1.4	1.9	1.15	1.30	1.30	1.35
E05-40-40-0.4M	2.92 Male	2.92 Male	0.4	0.8	1.4	1.2	2.3	1.15	1.30	1.30	1.35
E05-40-40-0.5M	2.92 Male	2.92 Male	0.5	0.9	1.5	2.0	2.9	1.15	1.30	1.30	1.35
E05-051-051-0.1M	SMA Male RA	SMA Male RA	0.1	0.4	0.9			1.25	1.30		
E05-051-051-0.2M	SMA Male RA	SMA Male RA	0.2	0.5	0.9			1.25	1.30		
E05-051-051-0.3M	SMA Male RA	SMA Male RA	0.3	0.6	1.2			1.25	1.30		
E05-37-37-0.1M	SMP Female	SMP Female	0.1	0.4	0.7	0.8		1.20	1.30	1.35	
E05-37-37-0.2M	SMP Female	SMP Female	0.2	0.5	0.9	1.2		1.20	1.30	1.35	
E05-37-37-0.3M	SMP Female	SMP Female	0.3	0.6	1.2	1.4		1.20	1.30	1.35	
E05-382-382-0.1M	SMP Female RA	SMP Female RA	0.1	0.4	0.7	0.8		1.20	1.30	1.40	
E05-382-382-0.2M	SMP Female RA	SMP Female RA	0.2	0.5	0.9	1.2		1.20	1.30	1.40	
E05-382-382-0.3M	SMP Female RA	SMP Female RA	0.3	0.6	1.2	1.4		1.20	1.30	1.40	

E06 Low Loss .141 Semi-rigid Cable Assembly

High-end application components such as high frequency, low loss, 3D bending, phase matching and tracking are available

Construction

	Description	Diameter(mm)	Material
1	Center conductor	1.02	Solid SPCW
2	Dielectric	2.95	Low-density PTFE
3	Outer shield	3.60	Tin or Ternary Alloy Plated Copper

Features & Advantage

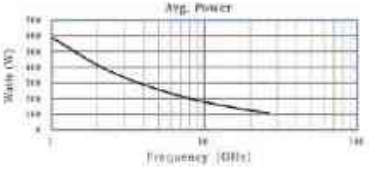
- Compliant with MIL-C-17 spec
- Very good shielding effectiveness
- Good mechanical & electrical performance

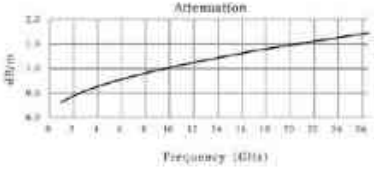
Mechanical & Environmental

Bend Radius: Installation (mm)	20
Weight (g/m)	62
Temp, Operating (°C)	-55 ~ +125

Electrical

Impedance (Ohms)	50	Shielding Effectiveness (dB)	< -120
Velocity of Propagation (%)	77	Cut Off Frequency (GHz)	26
Delay Time (ns/m)	4.3	Capacitance (pf/m)	87
Voltage Withstand (V)	1800		





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5
Attenuation (dB/m)	0.31	0.44	0.54	0.63	0.71	0.78	0.91	1.02	1.12	1.23	1.33	1.40	1.72
Avg. Power (W)	590	414	336	289	258	234	201	179	163	150	140	131	106

Connector & Assembly Information

Part Numbering Code

E06 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with 'W'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J503-02
Code 01J
Mat. Brass body with stainless steel nut
Freq. 26.5GHz
VSWR 1.25:1

Type SMA Male JIA
P/N SMA-JW-06-00
Code 05
Mat. Brass body with stainless steel nut
Freq. 18GHz
VSWR 1.30:1

Type N Male
P/N N-J-02-00A
Code 07
Mat. Stainless steel
Freq. 18GHz
VSWR 1.25:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~2.3	2.3~6	6~18	18~26.5	DC~2.3	2.3~6	6~18	18~26.5
				GHz				GHz			
E06-012-012-0.15M	SMA Male	SMA Male	0.1	0.3	0.4	0.6	0.7	1.10	1.20	1.30	1.35
E06-012-012-0.25M	SMA Male	SMA Male	0.2	0.3	0.4	0.7	0.8	1.10	1.20	1.30	1.35
E06-012-012-0.5M	SMA Male	SMA Male	0.3	0.4	0.5	0.8	1.0	1.15	1.25	1.35	1.35
E06-012-012-0.45M	SMA Male	SMA Male	0.4	0.4	0.6	1.0	1.2	1.15	1.25	1.35	1.35
E06-012-012-0.5M	SMA Male	SMA Male	0.5	0.5	0.7	1.2	1.4	1.15	1.25	1.35	1.35
E06-05-05-0.1M	SMA RA Male	SMA RA Male	0.1	0.3	0.4	0.6		1.20	1.25	1.35	
E06-05-05-0.2M	SMA RA Male	SMA RA Male	0.2	0.3	0.4	0.7		1.20	1.25	1.35	
E06-05-05-0.3M	SMA RA Male	SMA RA Male	0.3	0.4	0.5	0.8		1.20	1.25	1.35	
E06-05-05-0.4M	SMA RA Male	SMA RA Male	0.4	0.4	0.6	1.0		1.20	1.25	1.35	
E06-05-05-0.5M	SMA RA Male	SMA RA Male	0.5	0.5	0.7	1.2		1.20	1.25	1.35	
E06-07-07-0.1M	N Male	N Male	0.1	0.3	0.4	0.6		1.15	1.20	1.30	
E06-07-07-0.2M	N Male	N Male	0.2	0.3	0.4	0.7		1.15	1.20	1.30	
E06-07-07-0.3M	N Male	N Male	0.3	0.4	0.5	0.8		1.15	1.20	1.30	
E06-07-07-0.4M	N Male	N Male	0.4	0.4	0.6	1.0		1.15	1.20	1.30	
E06-07-07-0.5M	N Male	N Male	0.5	0.5	0.7	1.2		1.15	1.20	1.30	

E15 Low Loss .070 Semi-rigid Cable Assembly

High-end application components such as high frequency, low loss, 3D bending, phase matching and tracking are available

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.51	Solid SPCW
2	Dielectric	1.47	Low-density PTFE
3	Outer shield	2.00	Tin

Features & Advantage

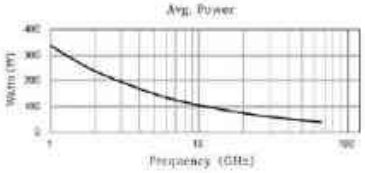
- Compliant with MIL-C-17 spec
- Very good shielding effectiveness
- Good mechanical & electrical performance

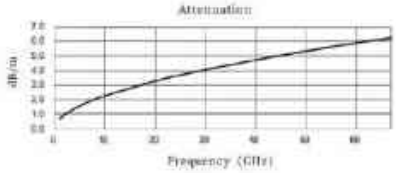
Mechanical & Environmental

Bend Radius: installation (mm)	10
Weight (g/m)	12
Temp. Operating (°C)	-40 ~ +150

Electrical

Impedance (Ω)(nm)	50	Shielding Effectiveness(dB)	<-120
Velocity of Propagation(%)	76	Cut-Off Frequency(GHz)	39
Delay Time (ns/m)	4.20	Capacitance (pf/m)	87
Voltage Withstand (V)	500		





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	5	8	10	20	26.5	40	50	60	67
Attenuation (dB/m)	0.70	0.99	1.58	2.02	2.26	3.25	3.77	4.69	5.29	5.84	6.20
Avg. Power (W)	335	236	148	116	103	72	62	50	44	40	38

Connector & Assembly Information

Part Numbering Code

E15 - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type	2.4 Male, Movable Nut
P/N	2.4 J-20-00
Code	39
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.30:1

Type	1.85 Male, Movable Nut
P/N	1.85 J-09-00
Code	0P
Mat.	Stainless steel
Freq.	67GHz
VSWR	1.35:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(≤)			
	Connector 1	Connector 2	m	DC-2.5	2.5-6	6-18	18-26.5	DC-2.5	2.5-6	6-18	18-26.5
				GHz				GHz			
E15-39-39-0.1M	2.4 Male	2.4 Male	0.1	0.6	1.0	1.2		1.25	1.30	1.30	
E15-39-39-0.2M	2.4 Male	2.4 Male	0.2	1.2	1.5	1.7		1.25	1.30	1.30	
E15-39-39-0.3M	2.4 Male	2.4 Male	0.3	1.6	2.0	2.2		1.25	1.30	1.30	
E15-39-39-0.4M	2.4 Male	2.4 Male	0.4	2.0	2.4	2.8		1.25	1.30	1.30	
E15-39-39-0.5M	2.4 Male	2.4 Male	0.5	2.4	2.9	3.5		1.25	1.30	1.30	
E15-0P-0P-0.1M	1.85 Male	1.85 Male	0.1	0.9	1.0	1.2	1.1	1.25	1.30	1.30	1.35
E15-0P-0P-0.2M	1.85 Male	1.85 Male	0.2	1.2	1.5	1.7	2.1	1.25	1.30	1.30	1.35
E15-0P-0P-0.3M	1.85 Male	1.85 Male	0.3	1.6	2.0	2.2	2.1	1.25	1.30	1.30	1.35
E15-0P-0P-0.4M	1.85 Male	1.85 Male	0.4	2.0	2.4	2.8	3.3	1.25	1.30	1.30	1.35
E15-0P-0P-0.5M	1.85 Male	1.85 Male	0.5	2.4	2.9	3.5	3.9	1.25	1.30	1.30	1.35

F Series -- Hand Formable Cable Assemblies

(Suited for Connection in Chassis)

BENEFITS:

★ Good flexibility
★ Low loss, low VSWR
★ Hand formable to almost any custom shape without special bending tools
★ Support to 26.5GHz both terminated with right angle connectors
★ .141 & .086 hand formable cables with stock available per standard lengths

APPLICATIONS:

★ Ideal for use for integrating system & sub-assemblies
★ Replacement for custom bent semi-rigid cables in most cases

'STATE-OF-THE-ART' TECHNOLOGY

Brings You Excellent Hand Formable Cable Assemblies

Features

- Anti-torque design to prevent the cable from damage during installation
- Low VSWR 1.25:1@18GHz; 1.30:1@26.5GHz 1.35:1@40GHz; 1.40:1@50GHz
- SMA RA connector up to 26.5GHz
- Cables available .047, .086, .141

DC~50GHz

Applications

- Replacement for semi-rigid cable assemblies
- Interconnection system
- Commercial / Military receiver & transmitter

Optional Connectors

.047"	SMA (26.5GHz), 2.92mm (40GHz), SMP(40GHz), SSMP(40GHz), MCX(12GHz)
.086"	SMA (26.5GHz), 2.92mm (40GHz), 2.4mm (50GHz), SMP(40GHz)
.141"	SMA (26.5GHz), N (18GHz)

1 Day to 1 Week In Stock!

F01J Jacketed Hand Formable .086 Cable Assembly

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.52	Solid SPCW
2	Dielectric	1.65	PTFE
3	Outer shield	2.18	Tinned SPC Braid
4	Jacket	2.65	FEP

Features & Advantage

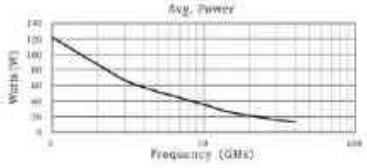
- Frequency up to 40GHz
- High shielding effectiveness
- Easy to bend and install
- Good mechanical & electrical performance

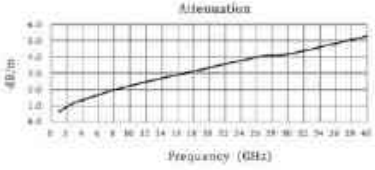
Mechanical & Environmental

Bend Radius: installation (mm)	6
Bend Radius: repeated (mm)	12
Weight (g/m)	21.6
Temp. Operating (°C)	-55 ~+125

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	> 90
Velocity of Propagation (%)	70	Cut-Off Frequency(GHz)	40
Delay Time (ns/m)	4.3	Capacitance (pF/m)	95
Voltage Withstand (V)	1500		





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40
Attenuation (dB/m)	0.64	0.93	1.20	1.34	1.51	1.67	1.96	2.22	2.46	2.68	2.89	3.10	4.03	4.17	5.27
Avg. Power (W)	122	87	67	58	52	48	41	36	31	27	25	23	18	16	13

Connector & Assembly Information

Part Numbering Code

F01J - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IMI	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-J-KE-04
Code 012
Mat. Brass body with stainless steel nut
Freq. 26.5GHz
VSWR 1.35:1

Type SMA Male RA
P/N SMA-JW-31-KE6
Code 018
Mat. Brass body with stainless steel nut
Freq. 26.5GHz
VSWR 1.40:1

Type 2.92 Male
P/N 2.92-J-02-0GB
Code 40
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.92 Female
P/N 2.92-K-12-00
Code 401
Mat. Stainless steel
Freq. 40GHz
VSWR 1.25:1

Type 2.92 F Bulkhead
P/N 2.92-KV-04-00
Code 450
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.92 F Flange
P/N 2.92-KF-02-00
Code 611
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.4 Male
P/N 2.4-J-11-00
Code 192
Mat. Brass body with stainless steel nut
Freq. 50GHz
VSWR 1.30:1

Type 2.4 Female
P/N 2.4-K-12-00
Code 402
Mat. Stainless steel
Freq. 50GHz
VSWR 1.30:1

Type SMP Female
P/N SMP-K-01-00
Code 373
Mat. Brass
Freq. 26.5GHz
VSWR 1.30:1

Type SMP Female RA
P/N SMP-KW-03-00
Code 381
Mat. Brass
Freq. 26.5GHz
VSWR 1.30:1

Type 1.5MP Male
P/N 1.5MP-J-01-00
Code 1W
Mat. Brass
Freq. 6GHz
VSWR 1.25:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
				GHz				GHz			
F01J-012-012-0.1M	SMA Male	SMA Male	0.1	0.6	0.8	0.9		1.15	1.30	1.35	
F01J-012-012-0.2M	SMA Male	SMA Male	0.2	0.7	1.1	1.3		1.15	1.30	1.35	
F01J-012-012-0.3M	SMA Male	SMA Male	0.3	0.9	1.4	1.7		1.15	1.30	1.35	
F01J-40-40-0.1M	2.92 Male	2.92 Male	0.1	0.6	0.8	0.9	1.4	1.15	1.30	1.30	1.35
F01J-40-40-0.2M	2.92 Male	2.92 Male	0.2	0.7	1.1	1.3	2.0	1.15	1.30	1.30	1.35
F01J-40-40-0.3M	2.92 Male	2.92 Male	0.3	0.9	1.4	1.7	2.5	1.15	1.30	1.30	1.35
F01J-018-018-0.1M	SMA Male RA	SMA Male RA	0.1	0.6	0.9	1.0		1.25	1.35	1.40	
F01J-018-018-0.2M	SMA Male RA	SMA Male RA	0.2	0.7	1.2	1.4		1.25	1.35	1.40	
F01J-018-018-0.3M	SMA Male RA	SMA Male RA	0.3	0.9	1.5	1.8		1.25	1.35	1.40	
F01J-371-371-0.1M	SMP Female	SMP Female	0.1	0.6	0.8	0.9		1.20	1.30	1.35	
F01J-371-371-0.2M	SMP Female	SMP Female	0.2	0.7	1.1	1.3		1.20	1.30	1.35	
F01J-371-371-0.3M	SMP Female	SMP Female	0.3	0.9	1.4	1.7		1.20	1.30	1.35	
F01J-381-381-0.1M	SMP Female RA	SMP Female RA	0.1	0.6	0.9	1.0		1.20	1.30	1.40	
F01J-381-381-0.2M	SMP Female RA	SMP Female RA	0.2	0.7	1.2	1.4		1.20	1.30	1.40	
F01J-381-381-0.3M	SMP Female RA	SMP Female RA	0.3	0.9	1.5	1.8		1.20	1.30	1.40	

F02J Jacketed Hand Formable .141 Cable Assembly

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.92	Solid SPCW
2	Dielectric	2.98	PTFE
3	Outer shield	3.52	Tinned SPC Braid
4	Jacket	4.15	FEP

Features & Advantage

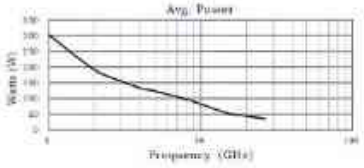
- High shielding effectiveness
- Good mechanical & electrical performance
- Up to 26.5GHz with right angle SMA male connectors at both ends
- Easy to bend and install

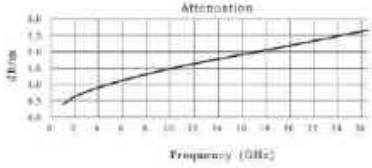
Mechanical & Environmental

Bend Radius: installation (mm)	8
Bend Radius: repeated (mm)	16
Weight (g/m)	30.8
Temp, Operating (°C)	-55 ~ +125

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	> 100
Velocity of Propagation(%)	70	Cut-Off Frequency (GHz)	24
Delay Time (ns/m)	4.7	Capacitance (pf/m)	95
Voltage Withstand (V)	1000		





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5
Attenuation (dB/m)	0.39	0.63	0.78	0.91	1.02	1.12	1.31	1.48	1.63	1.78	1.92	2.05	2.66
Avg. Power (W)	303	192	155	133	121	113	97	82	68	57	49	46	35

Part Numbering Code

F02J - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-JS03-02
Code 012
Mat. Brass body with stainless steel nut
Freq. 26.5GHz
VSWR 1.25:1

Type SMA Male RA
P/N SMA-JW-06-00
Code 056
Mat. Brass body with stainless steel nut
Freq. 18GHz
VSWR 1.30:1

Type N Male
P/N N-J-02-00A
Code 07
Mat. Stainless steel
Freq. 18GHz
VSWR 1.25:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(1)			
	Connector 1	Connector 2	m	DC~2.5	2.5~6	6~18	18~26.5	DC~2.5	2.5~6	6~18	18~26.5
				GHz				GHz			
F02J-012-012-0.1M	SMA Male	SMA Male	0.1	0.4	0.5	0.7	0.8	1.15	1.20	1.30	1.35
F02J-012-012-0.2M	SMA Male	SMA Male	0.2	0.4	0.6	0.9	1.0	1.15	1.20	1.30	1.35
F02J-012-012-0.3M	SMA Male	SMA Male	0.3	0.5	0.7	1.1	1.3	1.15	1.20	1.30	1.35
F02J-056-056-0.1M	SMA Male RA	SMA Male RA	0.1	0.5	0.6	0.8	0.9	1.20	1.25	1.35	1.40
F02J-056-056-0.2M	SMA Male RA	SMA Male RA	0.2	0.5	0.7	1.0	1.1	1.20	1.25	1.35	1.40
F02J-056-056-0.3M	SMA Male RA	SMA Male RA	0.3	0.6	0.8	1.2	1.4	1.20	1.25	1.35	1.40
F02J-07-07-0.1M	N Male	N Male	0.1	0.4	0.5	0.7		1.15	1.20	1.35	
F02J-07-07-0.2M	N Male	N Male	0.2	0.4	0.6	0.9		1.15	1.20	1.35	
F02J-07-07-0.3M	N Male	N Male	0.3	0.5	0.7	1.1		1.15	1.20	1.35	

F05J Jacketed Hand Formable .250 Cable Assembly

Construction

	Description	Diameter(mm)	Material
1	Center conductor	1.65	Solid SPCW
2	Dielectric	5.31	PTFE
3	Outer shield	6.10	Tinned SPC Braid
4	Jacket	6.90	FEP

Features & Advantage

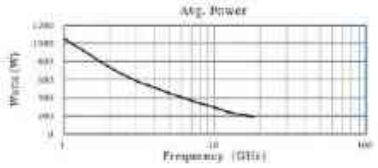
- High shielding effectiveness
- Easy to bend and install
- Good mechanical & electrical performance

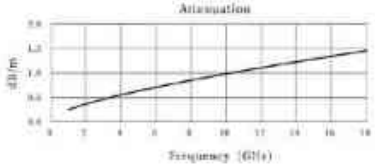
Mechanical & Environmental

Bend Radius: installation (mm)	30
Bend Radius: repeated (mm)	60
Weight (g/m)	134.8
Temp. Operating (°C)	-55 ~ +125

Electrical

Impedance (Ohms)	50	Shielding (Effectiveness)(dB)	< -100
Velocity of Propagation(%)	70	Cut-Off Frequency(GHz)	18
Delay Time (ns/m)	4.7	Capacitance (pF/m)	95
Voltage Withstand (V)	2500		





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18
Attenuation (dB/m)	0.35	0.37	0.46	0.55	0.63	0.71	0.83	0.98	1.10	1.22	1.34	1.45
Avg. Power (W)	1056	729	587	511	450	407	339	284	249	228	206	190

Connector & Assembly Information

Part Numbering Code

F05J - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Braiding
IMA	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
VA	Armor with PU/PVC Jacket over Stainless Steel Braid & Spiral
NA	Nylon Braid
M	Water Proof

Connector Code

Type	SMA Male
P/N	SMA-J-05-00
Code	01
Mat.	Brass
Freq.	18GHz
VSWR	1.25:1

Type	N Male
P/N	N-J-05-00
Code	07
Mat.	Brass
Freq.	18GHz
VSWR	1.25:1

Type	L29 Male
P/N	L29-J504-01
Code	49
Mat.	Brass
Freq.	6GHz
VSWR	1.20:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~3	3~6	6~12	12~18	DC~3	3~6	6~12	12~18
				GHz				GHz			
F05J-01-01-0.1M	SMA Male	SMA Male	0.1	0.3	0.3	0.4	0.6	1.15	1.20	1.25	1.35
F05J-01-01-0.2M	SMA Male	SMA Male	0.2	0.3	0.4	0.5	0.7	1.15	1.20	1.25	1.35
F05J-01-01-0.5M	SMA Male	SMA Male	0.5	0.4	0.5	0.6	0.9	1.15	1.20	1.25	1.35
F05J-07-07-0.1M	N Male	N Male	0.1	0.2	0.2	0.4	0.6	1.15	1.20	1.25	1.35
F05J-07-07-0.2M	N Male	N Male	0.2	0.3	0.3	0.5	0.7	1.15	1.20	1.25	1.35
F05J-07-07-0.5M	N Male	N Male	0.5	0.4	0.5	0.6	0.9	1.15	1.20	1.25	1.35
F05J-49-49-0.1M	L29 Male	L29 Male	0.1	0.3	0.3			1.20	1.25		
F05J-49-49-0.2M	L29 Male	L29 Male	0.2	0.3	0.4			1.20	1.25		
F05J-49-49-0.5M	L29 Male	L29 Male	0.5	0.4	0.5			1.20	1.25		

F06J Jacketed Hand Formable .250 Cable Assembly

Construction

	Description	Diameter(mm)	Material
1	Center conductor	0.29	Solid SPCW
2	Dielectric	0.94	PTFE
3	Outer shield	1.19	Tinned SPC Braid
4	Jacket	1.60	FEP

Features & Advantage

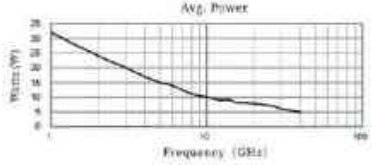
- Frequency up to 40GHz
- Very small bending radius, easy to bend and install
- High shielding effectiveness
- Good mechanical & electrical performance

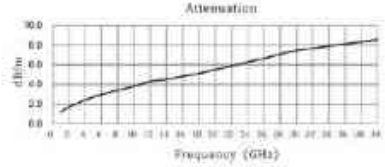
Mechanical & Environmental

Bend Radius: Installation (mm)	4.2
Bend Radius: repeated (mm)	8.4
Weight (g/m)	5.3
Temp, Operating (°C)	-55~+125

Electrical

Impedance (Ohms)	50	Shielding Effectiveness(dB)	> 100
Velocity of Propagation(%)	70	Cut-Off Frequency(GHz)	110
Delay Time (ns/m)	4.2	Capacitance (pF/m)	95
Voltage Withstand (V)	750		





Attenuation (Typical@25°C) & Power(40°C, Sea Level)

Frequency (GHz)	1	2	3	4	5	6	8	10	12	14	16	18	26.5	30	40
Attenuation (dB/m)	1.34	1.70	2.03	2.41	2.68	2.95	3.41	3.81	4.30	4.51	4.83	5.12	6.74	7.44	8.37
Avg. Power (W)	32	24	20	17	15	14	11	10	9	9	8	8	7	6	5

Part Numbering Code

F06J - 01 - 01 - 1M / PM

- Special requirement code
- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

*If only one connector requested, one of the connector code can be replaced with '00'

Code N	Special Requirement
PM	Phase Match
B	Bending
IM3	PIM Test
DE	Delay Line
WA	Interlocked Stainless Steel Armor
YA	Armor with PE/PVC Jacket over Stainless Steel Braid & Spiral
SA	Nylon Braid
M	Water Proof

Connector Code

Type SMA Male
P/N SMA-JP-01-00
Code 01
Mat. Stainless steel
Freq. 26.5
VSWR 1.35:1

Type 2.92 Male
P/N 2.92-J-21-00
Code 40
Mat. Brass body with stainless steel nut
Freq. 40GHz
VSWR 1.30:1

Type 2.92 Female
P/N 2.92-K-03-00
Code 41
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.92 F Bulkhead
P/N 2.92-KY-08-00
Code 42
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type 2.4 Male
P/N 2.4-J-12-00
Code 39
Mat. Brass body with stainless steel nut
Freq. 50GHz
VSWR 1.30:1

Type 2.4 F Bulkhead
P/N 2.4-KY-01-00
Code 38
Mat. Stainless steel
Freq. 40GHz
VSWR 1.30:1

Type SMP Male
P/N SMP-J-10-00
Code 36V
Mat. Brass
Freq. 18GHz
VSWR 1.25:1

Type SMP Female
P/N SMP-K-02-00
Code 37
Mat. Brass
Freq. 40GHz
VSWR 1.35:1

Type SMP Female RA
P/N SMP-KW-04-00
Code 38
Mat. Brass
Freq. 18GHz
VSWR 1.30:1

Type SSMP Male RA
P/N SSMP-JW-01-00
Code 0C
Mat. Brass
Freq. 18GHz
VSWR 1.25:1

Type 1.0/2.3 Male
P/N 1023-J-01-00
Code 3C
Mat. Brass
Freq. 30GHz
VSWR 1.35:1

Type 1.0/2.3 Female
P/N 1023-K-01-00
Code 3D
Mat. Brass
Freq. 18GHz
VSWR 1.30:1

Type MCX Male
P/N MCX-J-01-00
Code 2T
Mat. Brass
Freq. 22GHz
VSWR 1.20:1

Note: Customized connectors are available on request

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insection Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~6 GHz	6~18 GHz	18~26.5 GHz	26.5~40 GHz	DC~6 GHz	6~18 GHz	18~26.5 GHz	26.5~40 GHz
F06J-01-01-0.1M	SMA Male	SMA Male	0.1	0.6	1.0	1.2		1.20	1.30	1.35	
F06J-01-01-0.2M	SMA Male	SMA Male	0.2	0.9	1.5	1.9		1.20	1.30	1.35	
F06J-01-01-0.3M	SMA Male	SMA Male	0.3	1.2	2.1	2.6		1.20	1.30	1.35	
F06J-37-37-0.1M	SMP Female	SMP Female	0.1	0.6	1.0	1.2	1.4	1.20	1.30	1.30	1.35
F06J-37-37-0.2M	SMP Female	SMP Female	0.2	0.9	1.5	1.9	2.3	1.20	1.30	1.30	1.35
F06J-37-37-0.3M	SMP Female	SMP Female	0.3	1.2	2.1	2.6	3.2	1.20	1.30	1.30	1.35
F06J-39-39-0.1M	2.4 Male	2.4 Male	0.1	0.6	1.0	1.2	1.4	1.20	1.30	1.30	1.35
F06J-39-39-0.2M	2.4 Male	2.4 Male	0.2	0.9	1.5	1.9	2.3	1.20	1.30	1.30	1.35
F06J-39-39-0.3M	2.4 Male	2.4 Male	0.3	1.2	2.1	2.6	3.2	1.20	1.30	1.30	1.35
F06J-40-40-0.1M	2.92 Male	2.92 Male	0.1	0.6	1.0	1.2	1.4	1.20	1.30	1.30	1.35
F06J-40-40-0.2M	2.92 Male	2.92 Male	0.2	0.9	1.5	1.9	2.3	1.20	1.30	1.30	1.35
F06J-40-40-0.3M	2.92 Male	2.92 Male	0.3	1.2	2.1	2.6	3.2	1.20	1.30	1.30	1.35

Test Cable Assemblies

（MIcable - TestCableAssembliesExpert ）

BENEFITS:

★SRFS has developed a number of test cable assemblies with frequency from 6GHz to 110GHz. Construction of this cable family is ruggedized, high reliable and has unmatched long life over flexure & very cost effective.

★ Special recommend: T26/AT26 cable assembly is qualified over 150K flex cycles & still keep good amplitude & phase stability.

APPLICATIONS:

★ High volume production testing

★ Use in stringent test lab environment

★Vector network analyzer measurement

★High & low temperature testing

★Other areas requiring integration

Test Cable Solution

Try me !!!
In STOCK
1 day ~ 1 week

Economical
Durable
Reliable
Precision
Stable

DC~110GHz
High Performance
Millimeter Wave
Stainless Steel Armor Protection

26.5/40/50/67/110GHz
High Precision
Armor Protected
Long Life Cycles

DC~18GHz
High Performance
High Reliability
Flexible, Long Life Cycles

DC~67GHz
High Performance
Millimeter Wave
High Precision & Cost Effective

DC~26.5GHz
Super Precision & Stability
Ultra-Long Life
Qualified for over 150K Bending Cycles

DC~26.5GHz
High Performance
Long Life
Excellent Stability for High Accuracy Measurement

40/50GHz
High Reliability
High Accuracy
Flexible & Durable, Long Life Cycles

26.5/40/50/67GHz
Test Cable for
Vector Network Analyzer
Super Precision & Stability Competitive Price

DC~40GHz
Wide Temperature Range
High Accuracy
Special for Thermal Shock Testing

D10 Series DC~6GHz Cost-effective Test Cable with Reinforced Structure

(Suited for high reliable & frequent tests)

Features & Advantage

- Reinforced connectors, high reliability, long life-cycle
- The cable has good flexibility & feels comfortable
- High-performance & cost-effective

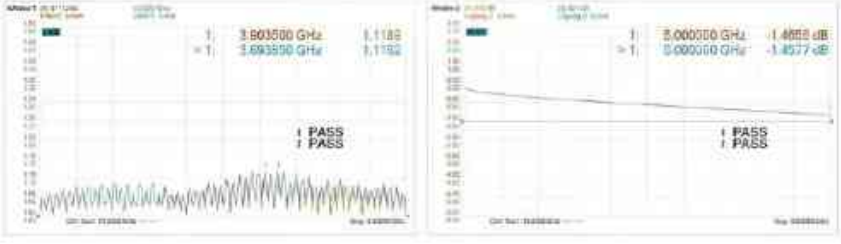
Application

- Mobile / IPAD / Wifi / Base station testing
- RF field test
- High volume production test
- Research & development labs

Electrical

Outer Diameter	5.30mm
Jacket	PVC
Operating Frequency	6GHz
Impedance	50Ω
Min. Bending Radius	25mm
Insertion Loss(Max.)	1.27dB/m@6GHz
Shielding Effectiveness	<-80dB
Operating Temp.	23±5℃
Storage Temp.	-40 ~ +80℃

Test Curve (1.0 Meter)



Connector & Assembly Information

Part Numbering Code

D10 - 01 - 01 - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type SMA Male
P/N SMA-J402-02
Code 01
Mat. Brass
Freq. 6GHz
VSWR 1.20:1

Type SMA Male RA
P/N SMA-JW402-01
Code 05
Mat. Brass
Freq. 6GHz
VSWR 1.20:1

Type SMA Female
P/N SMA-K402-01
Code 02
Mat. Brass
Freq. 6GHz
VSWR 1.20:1

Type N Male
P/N N-J-60-60C
Code 07
Mat. Brass
Freq. 6GHz
VSWR 1.20:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(≤)			
	Connector 1	Connector 2	m	DC~1 GHz	1~3 GHz	3~4 GHz	4~6 GHz	DC~1 GHz	1~3 GHz	3~4 GHz	4~6 GHz
D10-01-01-0.1M	SMA Male	SMA Male	0.1	0.3	0.6	0.7	1.0	1.30	1.35	1.20	1.25
D10-01-01-1M	SMA Male	SMA Male	1.0	0.6	1.1	1.3	1.8	1.30	1.35	1.20	1.25
D10-01-07-1M	SMA Male	N Male	1.0	0.6	1.1	1.3	1.8	1.30	1.35	1.20	1.30
D10-07-07-1M	N Male	N Male	1.0	0.6	1.1	1.3	1.8	1.30	1.35	1.20	1.30

C04I Series DC~26.5GHz Ultra Flexible & Durable Test Cable Assemblies

(Suited for high accuracy & long life tests)

Features & Advantage

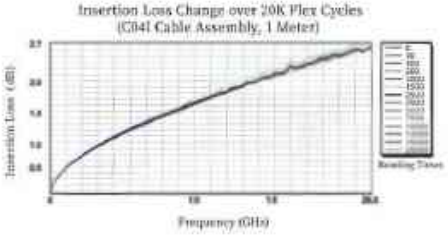
- Qualified by over 20K flex cycles
- Qualified by hundred thermal shock testing (-45~+85℃)
- High shielding effectiveness < -95dB
- Excellent phase & amplitude stability
- Ultra flexible
- Cost effectiveness

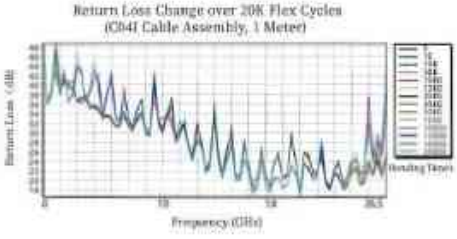
Application

- RF field test
- High volume production test
- Point to point equipment test
- Mobile / IPAD / Wifi / Base station testing
- Research & development labs

Electrical

Outer Diameter	4.95mm
Jacket	PVC
Operating Frequency	26.5GHz
Impedance	50Ω
Min. Bending Radius	25mm
Insertion Loss(Max.)	2.59dB/m@26.5GHz
Shielding Effectiveness	<-95dB
Phase Stability over flex.	±3°@26.5GHz
Amplitude Stability over Flex.	<±0.05dB@26.5GHz
Operating Temp.	23±5℃
Storage Temp.	-45 ~ +85℃





Connector & Assembly Information

Part Numbering Code

C04I - 01 - 01 - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type SMA Male
P/N SMA-J-04-00F
Code 01
Mat. Stainless Steel
Freq. 26.5GHz
VSWR 1.25:1

Type SMA Male RA
P/N SMA-JW-01-00F
Code 05
Mat. Stainless Steel
Freq. 18GHz
VSWR 1.35:1

Type SMA Female
P/N SMA-K-04-00F
Code 02
Mat. Stainless Steel
Freq. 26.5GHz
VSWR 1.30:1

Type 3.5 Male
P/N 3.5-J-01-00B
Code 47
Mat. Stainless Steel
Freq. 26.5GHz
VSWR 1.25:1

Type 3.5 Female
P/N 3.5-K-01-00B
Code 48
Mat. Stainless Steel
Freq. 26.5GHz
VSWR 1.30:1

Type N Male
P/N N-J-02-00F
Code 07
Mat. Stainless Steel
Freq. 18GHz
VSWR 1.25:1

Type N Female
P/N N-K-04-00
Code 08
Mat. Stainless Steel
Freq. 18GHz
VSWR 1.40:1

Type BNC Male
P/N BNC-J-04-00
Code 15
Mat. Brass
Freq. 4GHz
VSWR 1.20:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length		Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	Feet	m	DC~2.5	2.5~6	6~18	18~26.5	DC~2.5	2.5~6	6~18	18~26.5
					GHz				GHz			
C04I-01-01-1.5FT	SMA Male	SMA Male	1.5		0.6	0.8	1.4	1.9	1.15	1.15	1.50	1.35
C04I-01-01-3FT	SMA Male	SMA Male	3.0		0.7	0.9	1.8	2.5	1.15	1.15	1.50	1.35
C04I-01-01-3FT	SMA Male	SMA Male	3.0		0.9	1.3	2.5	3.2	1.15	1.15	1.50	1.35
C04I-01-01-4FT	SMA Male	SMA Male	4.0		1.2	1.6	3.2	4.1	1.15	1.15	1.50	1.35
C04I-01-01-6FT	SMA Male	SMA Male	6.0		1.7	2.3	4.6	5.9	1.15	1.15	1.50	1.35
C04I-01-01-1M	SMA Male	SMA Male		1.0	1.0	1.4	2.7	3.5	1.15	1.15	1.50	1.35
C04I-01-07-1M	SMA Male	N Male		1.0	1.0	1.4	2.7		1.15	1.20	1.55	
C04I-01-07-1M	N Male	N Male		1.0	1.0	1.4	2.7		1.15	1.20	1.55	

C05 Series DC~40GHz
High Reliable Stainless Steel Armored Test Cable

(Suited for various application requiring extremely limited installation space & bending radius)

Features & Advantage

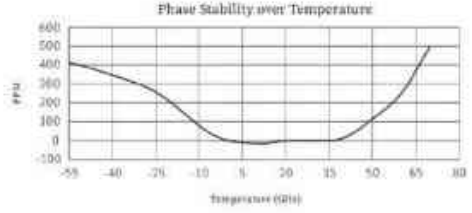
- Rugged configuration with super flexible stainless steel armor
- Negligible changes of phase & amplitude over flexure
- Excellent attenuation performance
- Double shielded prevention by high-shielding cable & armor (shielding effectiveness < -95dB)
- Guard against from salt spray, corrosion, extrusion & distortion
- Wide range of operation temp. at -65 ~ +165 C

Application

- Space limited environment test
- Module test
- Harsh environment test

Electrical

Outer Diameter	3.00mm
Jacket	Stainless steel armor. SS316L
Operating Frequency	SMA 26.5GHz, 2.92MM 40GHz
Impedance	50Ω
Min. Bending Radius	25mm
Insertion Loss(Max.)	6.12dB/m@26.5GHz, 7.69dB/m@40GHz
Shielding Effectiveness	<-95dB
Phase Stability over flex.	±1°@40GHz
Amplitude Stability over Flex.	<±0.10dB@40GHz
Operating Temp.	-65 ~ +165 C
Best Operating Temp.	-40 ~ +50 C



Connector & Assembly Information

Part Numbering Code

C05 - 01 - 01 - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type	SMA Male
P/N	SMA-J-13-00
Code	013
Mat.	Stainless Steel
Freq.	26.5GHz
VSWR	1.30:1

Type	2.92 Male
P/N	2.92-J-07-00
Code	40
Mat.	Stainless Steel
Freq.	40GHz
VSWR	1.30:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(1:1)			
	Connector 1	Connector 2	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
				GHz				GHz			
C05-013-013-0.3M	SMA Male	SMA Male	0.3	1.0	1.0	1.3		1.15	1.30	1.35	
C05-013-013-0.6M	SMA Male	SMA Male	0.6	1.0	1.3	1.5		1.15	1.30	1.35	
C05-013-013-1M	SMA Male	SMA Male	1.0	2.0	2.3	2.8		1.15	1.30	1.35	
C05-40-40-0.3M	2.92 Male	2.92 Male	0.3	1.0	1.0	1.3	1.5	1.15	1.30	1.30	1.35
C05-40-40-0.6M	2.92 Male	2.92 Male	0.6	1.0	1.3	1.5	1.8	1.15	1.30	1.30	1.35
C05-40-40-1M	2.92 Male	2.92 Male	1.0	2.0	2.3	2.8	3.3	1.15	1.30	1.30	1.35

B13 Series DC~40GHz Ultra Low Loss & Durable VA Armor Protected Test Cable Assemblies

(Qualified by over 20K flex cycles, well suited for repeat tests)

Features & Advantage

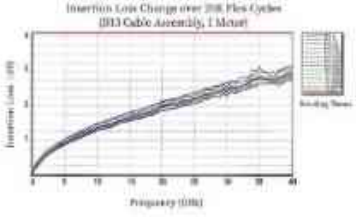
- Flexible & durable, negligible changes of phase & amplitude after flexing
- Qualified by over 20K flex cycles
- Inner-armored configuration for preventing from water, dust, extrusion & distortion

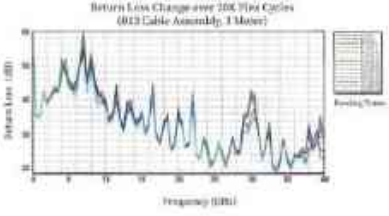
Application

- RF microwave millimeter wave test
- Point to point equipment test

Electrical

Outer Diameter	8.30mm
Jacket	Stainless Steel Screwed Tube + Stainless Steel Braid + PU Jacket
Operating Frequency	40GHz
Impedance	50Ω
Min. Bending Radius	50mm
Insertion Loss(Max.)	2.56dB/m@40GHz
Shielding Effectiveness	<-90dB
Phase Stability over flex.	±3°@40GHz
Amplitude Stability over Flex.	<±0.1dB@40GHz
Storage Temp.	-40 ~ +50 C





Connector & Assembly Information

Part Numbering Code

B13 - 01 - 01 - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type 3.5 Male
P/N 3.5-J-01-00B
Code 47
Mat. Stainless Steel
Freq. 32GHz
VSWR 1.30:1

Type 3.5 Female
P/N 3.5-K-01-00A
Code 60
Mat. Stainless Steel
Freq. 26.5GHz
VSWR 1.30:1

Type 2.92 Male
P/N 2.92-J-03-00
Code 40
Mat. Stainless Steel
Freq. 40GHz
VSWR 1.30:1

Type 2.4 Male
P/N 2.4-J-03-00
Code 39
Mat. Stainless Steel
Freq. 40GHz
VSWR 1.30:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length		Attenuation Insertion Loss (dB)				VSWR(1)			
	Connector 1	Connector 2	Feet	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
					GHz				GHz			
B13-39-39-1M	2.4 Male	2.4 Male		1.0	1.2	2.0	2.7	3.3	1.15	1.30	1.30	1.35
B13-39-40-1M	2.4 Male	2.92 Male		1.0	1.2	2.0	2.7	3.3	1.15	1.30	1.30	1.35
B13-40-40-1M	2.92 Male	2.92 Male		1.0	1.2	2.0	2.7	3.3	1.15	1.30	1.30	1.35
B13-40-40-1.5FT	2.92 Male	2.92 Male	1.5		0.7	1.1	1.5	2.0	1.15	1.30	1.30	1.35
B13-40-40-2FT	2.92 Male	2.92 Male	2.0		0.8	1.4	1.9	2.3	1.15	1.30	1.30	1.35
B13-40-40-2M	2.92 Male	2.92 Male		2.0	2.2	3.7	5.0	5.9	1.15	1.30	1.30	1.35

T26 Series DC~26.5GHz
High Reliable & Durable Test Cable

(Suited for high accuracy and frequent tests in production line & labs)

Features & Advantage

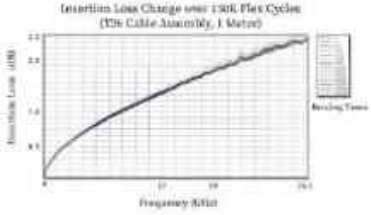
- Super flexible & durable
- High shielding effectiveness <-90dB
- Excellent phase & amplitude stability over flexure
- Outstanding return loss performance
- Qualified for over 150K flex cycles

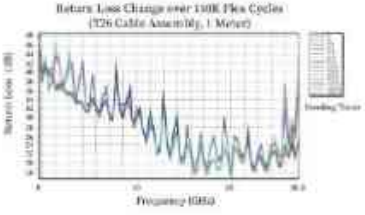
Application

- RF field test
- High volume production test
- Mobile / IPAD / Wifi / Base station testing
- Research & development labs
- 5G test
- Point to point equipment test

Electrical

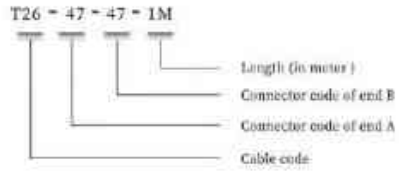
Outer Diameter	5.20mm
Jacket	PUR
Operating Frequency	26.5GHz
Impedance	50Ω
Min. Bending Radius	25mm
Insertion Loss(Max.)	2.52dB/m@26.5GHz
Shielding Effectiveness	<-90dB
Phase Stability over flex.	±2°@26.5GHz
Amplitude Stability over Flex.	<±0.04dB@26.5GHz
Operating Temp.	23±5℃
Storage Temp.	-40 ~ +50℃





Connector & Assembly Information

Part Numbering Code



Connector Code

 Type SMA Male P/N SMA-J-81-00 Code 011 Mat. Stainless Steel Freq. 26.5GHz VSWR 1.25:1	 Type SMA Male RA P/N SMA-JW-10-00 Code 010 Mat. Stainless Steel Freq. 26.5GHz VSWR 1.25:1	 Type SMA Female P/N SMA-K-06-00A Code 020 Mat. Stainless Steel Freq. 26.5GHz VSWR 1.25:1	 Type 3.5 Male P/N 3.5-J-14-00 Code 47 Mat. Stainless Steel Freq. 26.5GHz VSWR 1.20:1
 Type 3.5 Male P/N 3.5-J-27-00 Code 470 Mat. Stainless Steel Freq. 26.5GHz VSWR 1.30:1	 Type 3.5 Male RA P/N 3.5-JW-01-00 Code 62 Mat. Stainless Steel Freq. 26.5GHz VSWR 1.25:1	 Type 3.5 Female P/N 3.5-K-04-00 Code 60 Mat. Stainless Steel Freq. 26.5GHz VSWR 1.25:1	 Type N Male P/N N-J-17-00 Code 071 Mat. Stainless Steel Freq. 18GHz VSWR 1.25:1
 Type N Male RA P/N N-JW-12-00 Code 500 Mat. Stainless Steel Freq. 18GHz VSWR 1.25:1	 Type N Female P/N N-KT26-01 Code 08 Mat. Stainless Steel Freq. 18GHz VSWR 1.25:1		

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	L	DC~2.5	2.5~6	6~18	18~26.5	DC~2.5	2.5~6	6~18	18~26.5
				GHz				GHz			
T26-011-071-L	SMA Male	N Male	1M	1.0	1.4	2.6	N/A			1.80	
T26-071-071-L	N Male	N Male									
T26-011-011-L	SMA Male	SMA Male									
T26-011-020-L	SMA Male	SMA Female	2FT	0.7	0.9	1.8	2.2	1.12	1.15		
T26-020-020-L	SMA Female	SMA Female	3FT	0.9	1.3	2.4	3.0			1.25	1.30
T26-47-47-L	3.5 Male	3.5 Male	1M	1.0	1.4	2.6	3.2				
T26-47-60-L	3.5 Male	3.5 Female									
T26-60-60-L	3.5 Female	3.5 Female									

T26E Series DC~26.5GHz
Wide Temperature Range Test Cable

(Suited for full temperature range cycling tests & Thermal shock tests)

Features & Advantage

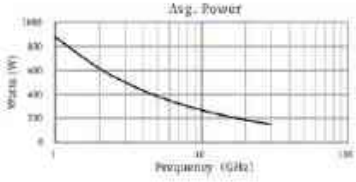
- Excellent mechanical performance & phase stability over temp.
- High shielding effectiveness & outstanding attenuation performance
- Construction is very robust, employing an advanced strain relief system
- Wide range of operation temp. at -65～+165℃

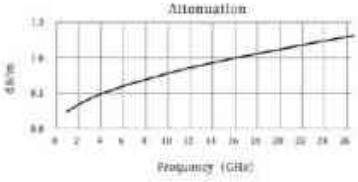
Application

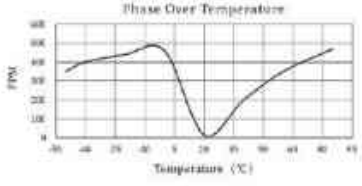
- High & low temperature cycling / Thermal shock test for production line / Labs
- High-density test equipment connection
- High volume production test

Electrical

Outer Diameter	4.80mm
Jacket	FEP
Operating Frequency	26.5GHz
Impedance	50Ω
Min. Bending Radius	20mm
Insertion Loss(Max.)	1.31dB/m@26.5GHz
Shielding Effectiveness	<-90dB
Phase Stability over flex.	±3°@26.5GHz
Amplitude Stability over Flex.	<±0.06dB@26.5GHz
Operating Temp.	-65 ~ +165℃







Connector & Assembly Information

Part Numbering Code

T26E - 47 - 47 - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type	3.5 Male
P/N	3.5-J-16-00
Code	47
Mat.	Stainless steel
Freq.	26.5GHz
VSWR	1.20:1

Type	3.5 Female
P/N	3.5-K-88-00
Code	60
Mat.	Stainless steel
Freq.	26.5GHz
VSWR	1.25:1

Type	3.5 Male
P/N	3.5-J-26-00
Code	47R
Mat.	Stainless steel
Freq.	26.5GHz
VSWR	1.30:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(≤)			
	Connector 1	Connector 2	m	DC~2.5	2.5~6	6~18	18~26.5	DC~2.5	2.5~6	6~18	18~26.5
				GHz				GHz			
T26E-47-47-1M	3.5 Male	3.5 Male	1.0	0.6	0.8	1.3	1.9	1.15	1.15	1.30	1.30
T26E-47-47-1.5M	3.5 Male	3.5 Male	1.5	0.8	1.1	2.1	2.6	1.15	1.15	1.30	1.30
T26E-47-60-1M	3.5 Male	3.5 Female	1.0	0.6	0.8	1.3	1.9	1.15	1.20	1.30	1.30
T26E-47-60-1.5M	3.5 Male	3.5 Female	1.5	0.8	1.1	2.1	2.6	1.15	1.20	1.30	1.30

T40 Series DC~40GHz
High Density and Reliable Test Cable

(Suited for high accuracy millimeter wave tests in production line & labs)

Features & Advantage

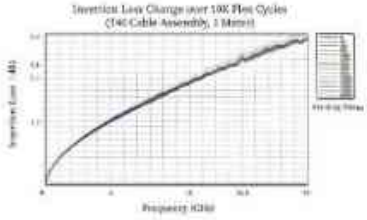
- Excellent phase & amplitude stability over flexure
- High shielding effectiveness <-90dB
- Construction is very robust, employing an advanced strain relief system
- Excellent attenuation performance
- Super flexible & durable
- Anti-compression & distortion

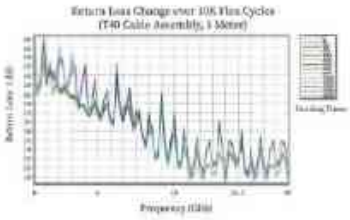
Application

- Test equipment connection
- High volume production / Lab test

Electrical

Outer Diameter	3.68mm
Jacket	FEP
Operating Frequency	40GHz
Impedance	50Ω
Min. Bending Radius	14.4mm
Insertion Loss(Max.)	2.92dB/m@40GHz
Shielding Effectiveness	<-90dB
Phase Stability over flex.	±3°@40GHz
Amplitude Stability over Flex.	<±0.06dB@40GHz
Operating Temp.	25±5 C
Storage Temp.	-40 ~ +50 C





Part Numbering Code

T40 - 39 - 39 - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type	2.92 Male
P/N	2.92-J-11-00
Code	400
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Type	2.92 Female
P/N	2.92-K-06-00
Code	460
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Type	2.4 Male
P/N	2.4-J-04-00
Code	39
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Type	2.4 Female
P/N	2.4-K-04-00
Code	48
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(1:1)			
	Connector 1	Connector 2	L	DC~6 GHz	6~18 GHz	18~26.5 GHz	26.5~40 GHz	DC~6 GHz	6~18 GHz	18~26.5 GHz	26.5~40 GHz
T40-400-400-1	2.92 Male	2.92 Male	1M 2M 3M	0.9 1.3 1.8	1.7 2.2 3.4	1.9 2.8 3.8	2.x 3.6 5.0	1.15	1.20	1.25	1.30
T40-400-460-1	2.92 Male	2.92 Female									
T40-460-460-1	2.92 Female	2.92 Female									
T40-39-39-1	2.4 Male	2.4 Male									
T40-39-48-1	2.4 Male	2.4 Female									
T40-48-48-1	2.4 Female	2.4 Female									

T50 Series DC~50GHz
High Density and Reliable Test Cable

(Suited for high accuracy millimeter wave tests in production line & labs)

Features & Advantage

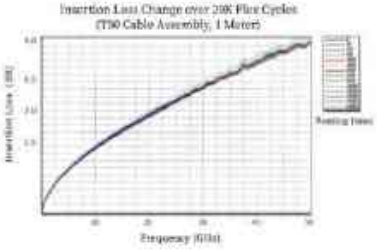
- Excellent phase & amplitude stability over flexure
- High shielding effectiveness <-90dB
- Construction is very robust, employing an advanced strain relief system
- Excellent attenuation performance
- Super flexible & durable
- Anti-compression & distortion

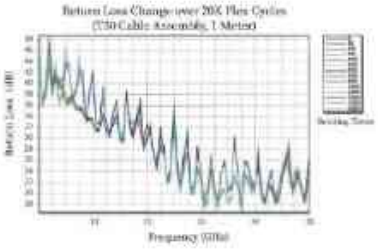
Application

- Test equipment connection
- High volume production / Lab test

Electrical

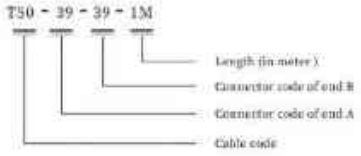
Outer Diameter	3.60mm
Jacket	FEP
Operating Frequency	40GHz
Impedance	50Ω
Min. Bending Radius	14.4mm
Insertion Loss(Max.)	3.29dB/m@50GHz
Shielding Effectiveness	<-90dB
Phase Stability over flex.	±4°@50GHz
Amplitude Stability over Flex.	<±0.08dB@50GHz
Operating Temp.	23±5℃
Storage Temp.	-40 ~ +50℃





Connector & Assembly Information

Part Numbering Code



Connector Code

Type	2.4 Male
P/N	2.4-J-04-00
Code	39
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.30:1

Type	2.4 Female
P/N	2.4-K-04-00
Code	49
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.30:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(1)			
	Connector 1	Connector 2	L	DC~18	18~26.5	26.5~40	40~50	DC~18	18~26.5	26.5~40	40~50
				GHz				GHz			
T50-39-39-L	2.4 Male	2.4 Male	3FT	1.7	2.0	2.6	3.1				
T50-39-49-L	2.4 Male	2.4 Female	3FT	2.0	2.6	3.6	4.1	1.20	1.25	1.30	1.35
T50-49-49-L	2.4 Female	2.4 Female	1M	2.4	3.0	3.8	4.4				

T110 Series DC~110GHz High Reliability Test Cable Assemblies

(Suitable for production line / lab testing)

Features & Advantage

- Rugged configuration with super flexible stainless steel armor
- Negligible changes of phase & amplitude over flexure
- Excellent attenuation performance
- Double shielded prevention by high-shielding cable & armor (shielding effectiveness <-95dB)
- Guard against from salt spray, corrosion, extrusion & distortion
- Wide range of operation temp. at -65 ~ +165℃

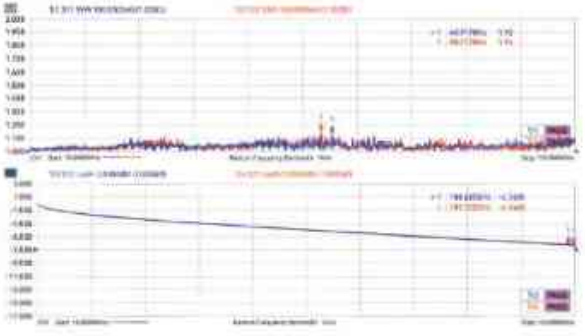
Application

- Production line / Lab testing
- MmWave equipment / Test instruments / System connections

Electrical

Outer Diameter	3.00mm
Jacket	SS316 Stainless Steel
Operating Frequency	110GHz
Impedance	50Ω
Min. Bending Radius	25mm
VSWR(:1)	1.45@110GHz
Insertion Loss(Max.)	15dB/m@110GHz
Shielding Effectiveness	<-95dB
Phase Stability over flex.	±8°@110GHz
Amplitude Stability over Flex.	<±0.10dB@110GHz
Operating Temp.	-65～+165℃
Storage Temp.	-65～+165℃

Test Curve (0.4 Meter)



Connector & Assembly Information

Part Numbering Code

T110 - 1Y - 1Y - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type	1.0 Male
P/N	1.0-J-01-00
Code	1Y
Mat.	Stainless steel
Freq.	110GHz
VSWR	1.40:1

Type	1.0 Female
P/N	1.0-K-01-00
Code	1Z
Mat.	Stainless steel
Freq.	110GHz
VSWR	1.40:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~40	40~50	50~67	67~110	DC~40	40~50	50~67	67~110
				GHz				GHz			
T110-1Y-1Y-0.3M	1.0mm Male	1.0mm Male	0.3	2.9	3.2	3.9	5.8	1.30	1.30	1.35	1.40
T110-1Y-1Y-0.5M	1.0mm Male	1.0mm Male	0.5	4.4	5.0	6.8	9.3	1.30	1.30	1.35	1.40
T110-1Y-1Y-1M	1.0mm Male	1.0mm Male	1.0	8.2	9.4	11.1	16	1.30	1.30	1.35	1.40
T110-1Y-1Z-0.3M	1.0mm Male	1.0mm Female	0.3	2.9	3.2	3.9	5.8	1.30	1.30	1.35	1.40
T110-1Y-1Z-0.5M	1.0mm Male	1.0mm Female	0.5	4.4	5.0	6.8	9.3	1.30	1.30	1.35	1.40
T110-1Y-1Z-1M	1.0mm Male	1.0mm Female	1.0	8.2	9.4	11.1	16	1.30	1.30	1.35	1.40
T110-1Z-1Z-0.3M	1.0mm Female	1.0mm Female	0.3	2.9	3.2	3.9	5.8	1.30	1.30	1.35	1.40
T110-1Z-1Z-0.5M	1.0mm Female	1.0mm Female	0.5	4.4	5.0	6.8	9.3	1.30	1.30	1.35	1.40
T110-1Z-1Z-1M	1.0mm Female	1.0mm Female	1.0	8.2	9.4	11.1	16	1.30	1.30	1.35	1.40

T40E Series DC~40GHz
Wide Temperature Range Test Cable

(Suited for high & low temperature cycling / Thermal shock tests)

Features & Advantage

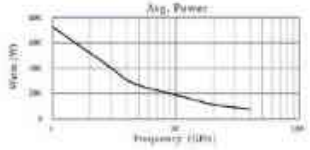
- Excellent mechanical performance & phase stability over temp.
- High shielding effectiveness & outstanding attenuation performance
- Construction is very robust, employing an advanced strain relief system
- Wide range of operation temp. at -65 ~ +165℃

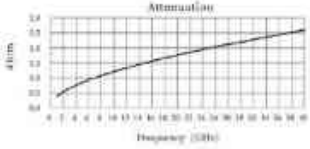
Application

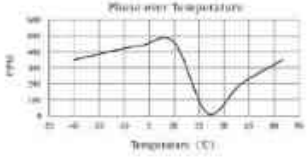
- High & low temp. cycling / Thermal shock tests for production line / Labs
- High-density test equipment connection
- High volume production test

Electrical

Outer Diameter	3.60mm
Jacket	FEP
Operating Frequency	40GHz
Impedance	50Ω
Min. Bending Radius	20mm
Insertion Loss(Max.)	2.61dB/m@40GHz
Shielding Effectiveness	<-90dB
Phase Stability over flex.	±4°@40GHz
Amplitude Stability over Flex.	<±0.10dB@40GHz
Operating Temp.	-65 ~ +165℃
Storage Temp.	-65 ~ +165℃

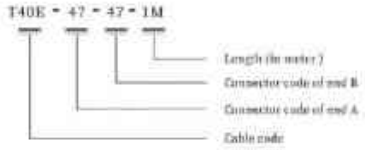






Connector & Assembly Information

Part Numbering Code



Connector Code

Type	2.92 Male
P/N	2.92-J-03-00
Code	40
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.30:1

Type	2.92 Male
P/N	2.92-J-18-00
Code	40R
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.30:1

Type	2.92 Female
P/N	2.92-K-04-00
Code	46
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.30:1

Type	2.4 Male
P/N	2.4-J-03-00
Code	39
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.30:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	m	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
				GHz				GHz			
T40E-40-40-1M	2.92 Male	2.92 Male	1.0	1.2	2.1	2.6	3.4	1.15	1.30	1.30	1.35
T40E-40-40-1.5M	2.92 Male	2.92 Male	1.5	1.6	3.0	3.6	4.7	1.15	1.30	1.30	1.35
T40E-40-46-1M	2.92 Male	2.92 Female	1.0	1.2	2.1	2.6	3.4	1.20	1.30	1.30	1.35
T40E-40-46-1.5M	2.92 Male	2.92 Female	1.5	1.6	3.0	3.6	4.7	1.20	1.30	1.30	1.35
T40E-39-39-1M	2.4 Male	2.4 Male	1.0	1.2	2.1	2.6	3.4	1.15	1.30	1.30	1.35
T40E-39-39-1.5M	2.4 Male	2.4 Male	1.5	1.6	3.0	3.6	4.7	1.15	1.30	1.30	1.35

AT26 Series DC~26.5GHz

VA Armor Protected Test Cable Assemblies

(Qualified by over 300K flex cycles, well suited for repeat tests)

Features & Advantage

- Flexible & durable, long life cycle
- Reinforced connector, robust protection & ideal strain relief
- Multilayer armor structure to prevent cable from water, dust, extrusion & distortion
- Excellent phase & amplitude stability over bending, shaking & torsion
- Ideal VSWR & measurement accuracy

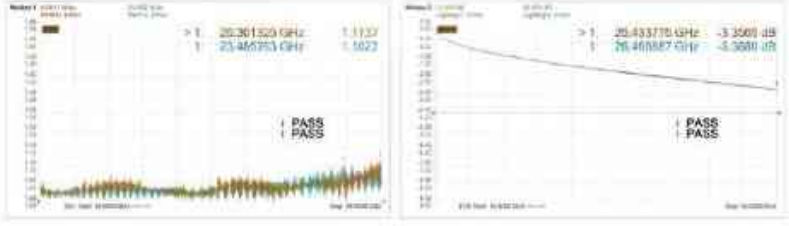
Application

- RF field test
- High volume production test
- Point to point equipment test
- Mobile / IPAD / WIFI / Base station testing
- Research & development labs

Electrical

Outer Diameter	8.00mm
Jacket	Stainless steel with spring + Silver plated copper wire + Waterproof glue + PTFE braided wire
Operating Frequency	26.5GHz
Impedance	50Ω
Min. Bending Radius	30mm
Insertion Loss(Max.)	2.52dB/m@26.5GHz
Shielding Effectiveness	<-90dB
Phase Stability over flex.	±2°@26.5GHz
Amplitude Stability over Flex.	±0.04dB@26.5GHz
Operating Temp.	23±5℃
Storage Temp.	-40 ~ +50℃

Test Curve（1.6 Meter）



Connector & Assembly Information

Part Numbering Code

AT26 - 47 - 47 - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type SMA Male
P/N SMA-J-29-00
Code 01
Mat. Stainless Steel
Freq. 26.5GHz
VSWR 1.20:1

Type SMA Female
P/N SMA-K-11-00
Code 02
Mat. Stainless Steel
Freq. 26.5GHz
VSWR 1.20:1

Type 3.5 Male
P/N 3.5-J-22-00
Code 47
Mat. Stainless Steel
Freq. 34GHz
VSWR 1.25:1

Type 3.5 Female
P/N 3.5-K-04-00
Code 48
Mat. Stainless Steel
Freq. 34GHz
VSWR 1.25:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(≤1)			
	Connector 1	Connector 2	L	DC~2.5	2.5~6	6~18	18~26.5	DC~2.5	2.5~6	6~18	18~26.5
				GHz				GHz			
AT26-01-01-L	SMA Male	SMA Male	2FT 3FT 5M	0.7 0.9 1.0	0.9 1.3 1.4	1.8 2.4 2.6	2.2 3.0 3.2	1.12	1.15	1.25	1.30
AT26-01-02-L	SMA Male	SMA Female									
AT26-02-02-L	SMA Female	SMA Female									
AT26-47-47-L	3.5 Male	3.5 Male									
AT26-47-48-L	3.5 Male	3.5 Female									
AT26-48-48-L	3.5 Female	3.5 Female									

AT40 Series DC~40GHz
VA Armor Protected Test Cable Assemblies

(Qualified by over 20K flex cycles, well suited for repeat tests)

Features & Advantage

- Flexible & durable, long life cycle
- Reinforced connector, robust protection & ideal strain relief
- Multilayer armor structure to prevent cable from water, dust, extrusion & distortion
- Excellent phase & amplitude stability over bending, shaking & torsion
- Ideal VSWR & measurement accuracy

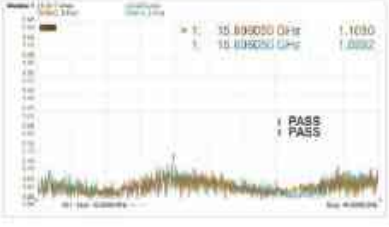
Application

- Millimeter wave test
- Point to point equipment test
- 5G test

Electrical

Outer Diameter	6.00mm
Jacket	Stainless steel with spring + Silver plated copper wire + Waterproof glue + PTFE braided wire
Operating Frequency	40GHz
Impedance	50Ω
Min. Bending Radius	50mm
Insertion Loss(Max.)	2.92dB/m@40GHz
Shielding Effectiveness	<-90dB
Phase Stability over flex.	±3°@40GHz
Amplitude Stability over Flex.	<±0.06dB@40GHz
Operating Temp.	23±5℃
Storage Temp.	-40 ~ +50℃

Test Curve (1.6 Meter)



Connector & Assembly Information

Part Numbering Code

AT40 - 39 - 39 - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type	2.92 Male
P/N	2.92-J-15-00
Code	40
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Type	2.92 Male
P/N	2.92-J-15-00A
Code	400
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Type	2.92 Female
P/N	2.92-K-09-00
Code	46
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Type	2.92 Female
P/N	2.92-K-09-00A
Code	460
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR:1			
	Connector 1	Connector 2	L	DC~6	6~18	18~26.5	26.5~40 GHz	DC~6	6~18	18~26.5	26.5~40 GHz
AT40-40-40-L	2.92 Male	2.92 Male									
AT40-40-46-L	2.92 Male	2.92 Female									
AT40-46-46-L	2.92 Female	2.92 Female	2FT	0.5	1.7	2.0	2.5				
AT40-39-39-L	2.4 Male	2.4 Male	3FT	1.3	1.3	2.0	3.0	1.15	1.25	1.25	1.30
AT40-39-48-L	2.4 Male	2.4 Female	1M	1.9	2.4	3.0	4.0				
AT40-48-48-L	2.4 Female	2.4 Female									

AT50 Series DC~50GHz
VA Armor Protected Test Cable Assemblies

(Qualified by over 20K flex cycles, well suited for repeat tests)

Features & Advantage

- Flexible & durable, long life cycle
- Reinforced connecter, robust protection & ideal strain relief
- Multilayer armor structure to prevent cable from water, dust, extrusion & distortion
- Excellent phase & amplitude stability over bending, shaking & torsion
- Ideal VSWR & measurement accuracy

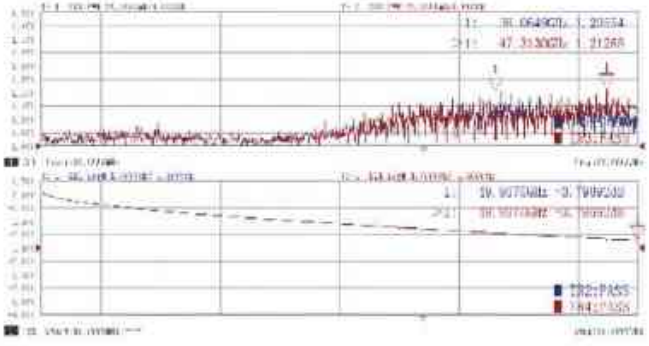
Application

- Millimeter wave test cable
- Point to point equipment test
- 5G test

Electrical

Outer Diameter	6.00mm
Jacket	Stainless steel with spring + Silver plated copper wire + Waterproof glue + PTFE braided wire
Operating Frequency	50GHz
Impedance	50Ω
Min. Bending Radius	50mm
Insertion Loss(Max.)	3.29dB/m@50GHz
Shielding Effectiveness	<-90dB
Phase Stability over flex.	±4°@50GHz
Amplitude Stability over Flex.	<±0.08dB@50GHz
Operating Temp.	23±5 C
Storage Temp.	-40 ~ +50 C

Test Curve (1.05 Meter)



Connector & Assembly Information

Part Numbering Code

AT50 - 39 - 39 - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type	2.4 Male
P/N	2.4-J-08-00
Code	39
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.25:1

Type	2.4 Male
P/N	2.4-J-16-00A
Code	391
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.25:1

Type	2.4 Female
P/N	2.4-K-09-00
Code	48
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.25

Type	2.4 Female
P/N	2.4-K-16-00A
Code	481
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.25

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	L	DC~18	18~26.5	26.5~40	40~50	DC~18	18~26.5	26.5~40	40~50
				GHz				GHz			
AT50-39-39-2FT	2.4 Male	2.4 Male									
AT50-39-39-5FT	2.4 Male	2.4 Male									
AT50-39-39-1M	2.4 Male	2.4 Male									
AT50-39-48-2FT	2.4 Male	2.4 Female	2FT	0.9	2.0	1.6	3.1				
AT50-39-48-5FT	2.4 Male	2.4 Female	5FT	1.3	2.8	1.6	4.1	1.35	1.50	1.30	1.55
AT50-39-48-1M	2.4 Male	2.4 Female	1M	1.4	3.0	1.8	4.4				
AT50-48-48-2FT	2.4 Female	2.4 Female									
AT50-48-48-5FT	2.4 Female	2.4 Female									
AT50-48-48-1M	2.4 Female	2.4 Female									

AT67 Series DC~67GHz
VA Armor Protected Test Cable Assemblies

(Qualified by over 20K flex cycles, well suited for repeat tests)

Features & Advantage

- Flexible & durable, long life cycle
- Reinforced connector, robust protection & ideal strain relief
- Multilayer armor structure to prevent cable from water, dust, extrusion & distortion
- Excellent phase & amplitude stability over bending, shaking & torsion
- Ideal VSWR & measurement accuracy

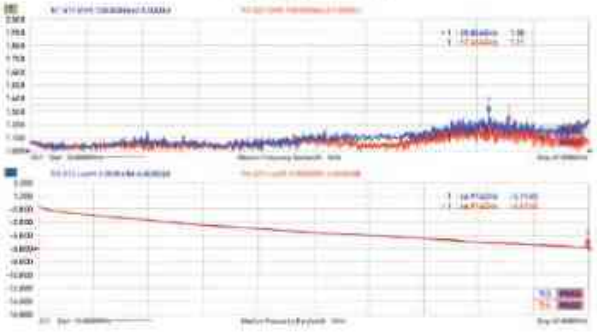
Application

- Millimeter wave test
- Point to point equipment test
- 5G test

Electrical

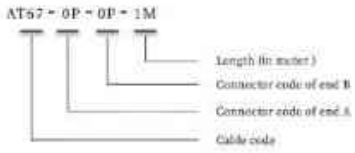
Outer Diameter	5.00mm
Jacket	Stainless steel with spring + Silver plated copper wire + Waterproof glue + PTFE braided wire
Operating Frequency	67GHz
Impedance	50Ω
Min. Bending Radius	30mm
Insertion Loss(Max.)	6.2dB/m@67GHz
Shielding Effectiveness	<-100dB
Phase Stability over flex.	±3°@67GHz
Amplitude Stability over Flex.	<±0.15dB@67GHz
Operating Temp.	23±5 C
Storage Temp.	-40 ~ +50 C

Test Curve (1.0 Meter)



Connector & Assembly Information

Part Numbering Code



Connector Code

Type	1.85 Male
P/N	1.85-J-07-00
Code	0P
Mat.	Stainless steel
Freq.	67GHz
VSWR	1.25:1

Type	1.85 Male
P/N	1.85-J-07-00A
Code	0P0
Mat.	Stainless steel
Freq.	67GHz
VSWR	1.25:1

Type	1.85 Female
P/N	1.85-K-03-00
Code	0Y
Mat.	Stainless steel
Freq.	67GHz
VSWR	1.25:1

Type	1.85 Female
P/N	1.85-K-03-00A
Code	0Y0
Mat.	Stainless steel
Freq.	67GHz
VSWR	1.25:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	L	DC~18	18~40	40~50	50~67	DC~18	18~40	40~50	50~67
				GHz				GHz			
AT67-0P-0P-2FT	1.85 Male	1.85 Male									
AT67-0P-0P-3FT	1.85 Male	1.85 Male									
AT67-0P-0P-1M	1.85 Male	1.85 Male									
AT67-0P-0Y-2FT	1.85 Male	1.85 Female	2FT	2.2	3.6	4.2	4.8				
AT67-0P-0Y-3FT	1.85 Male	1.85 Female	3FT	3.0	5.1	5.9	6.5	1.25	1.20	1.20	1.35
AT67-0P-0Y-1M	1.85 Male	1.85 Female	1M	3.4	5.5	6.4	6.9				
AT67-0Y-0Y-2FT	1.85 Female	1.85 Female									
AT67-0Y-0Y-3FT	1.85 Female	1.85 Female									
AT67-0Y-0Y-1M	1.85 Female	1.85 Female									

AT110 Series DC~110GHz
VA Armor Protected Test Cable Assemblies

(Qualified by over 20K flex cycles, well suited for repeat tests)

Features & Advantage

- Flexible & durable, long life cycle
- Reinforced connector, robust protection & ideal strain relief
- Multilayer armor structure to prevent cable from water, dust, extrusion & distortion
- Excellent phase & amplitude stability over bending, shaking & torsion
- Ideal VSWR & measurement accuracy

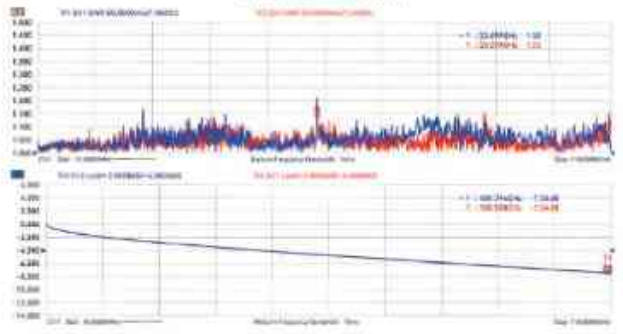
Application

- 110GHz millimeter wave test cable
- Equipment and system connection

Electrical

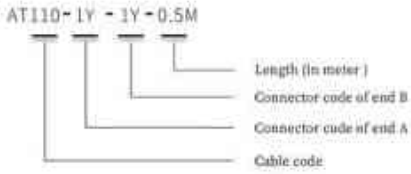
Outer Diameter:	5.00mm
Jacket	Stainless steel with spring + Silver plated copper wire + Waterproof glue + PTFE braided wire
Operating Frequency	110GHz
Impedance	50Ω
Min. Bending Radius	30mm
Insertion Loss(Max.)	15dB/m@110GHz
Shielding Effectiveness	<-100dB
Phase Stability over flex.	±8°@110GHz
Amplitude Stability over Flex.	<±0.2dB@110GHz
Operating Temp.	23±5℃
Storage Temp.	-45 ~ +85℃

Test Curve (0.5 Meter)



Connector & Assembly Information

Part Numbering Code



Connector Code

Type	1.0 Male
P/N	1.0 J 03-00
Code	1Y
Mat.	Stainless steel
Freq.	110GHz
VSWR	1.25:1

Type	1.0 Female
P/N	1.0 K 03-00
Code	1Z
Mat.	Stainless steel
Freq.	110GHz
VSWR	1.25:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(1)			
	Connector 1	Connector 2	m	DC~40	40~50	50~67	67~110	DC~40	40~50	50~67	67~110
				GHz				GHz			
AT110-1Y-1Y-0.5M	1.0mm Male	1.0mm Male	0.5	2.3	3.3	3.9	5.5	1.25	1.25	1.30	1.30
AT110-1Y-1Y-0.5M	1.0mm Male	1.0mm Male	0.5	3.3	3.3	6.0	8.5	1.25	1.25	1.30	1.30
AT110-1Y-1Y-1M	1.0mm Male	1.0mm Male	1.0	4.2	5.4	11.1	16	1.25	1.25	1.30	1.30
AT110-1Y-1Z-0.5M	1.0mm Male	1.0mm Female	0.5	2.3	3.3	3.9	5.5	1.25	1.25	1.30	1.30
AT110-1Y-1Z-0.5M	1.0mm Male	1.0mm Female	0.5	4.4	5.4	6.8	8.5	1.25	1.25	1.30	1.30
AT110-1Y-1Z-1M	1.0mm Male	1.0mm Female	1.0	4.2	5.4	11.1	16	1.25	1.25	1.30	1.30
AT110-1Z-1Z-0.5M	1.0mm Female	1.0mm Female	0.5	2.3	3.3	3.9	5.5	1.25	1.25	1.30	1.30
AT110-1Z-1Z-0.5M	1.0mm Female	1.0mm Female	0.5	4.4	5.4	6.8	8.5	1.25	1.25	1.30	1.30
AT110-1Z-1Z-1M	1.0mm Female	1.0mm Female	1.0	4.2	5.4	11.1	16	1.25	1.25	1.30	1.30

VNA26 Series DC~26.5GHz Flexible Test Cable for Vector Network Analyzer

(Suited for high accuracy & long life tests)

Features & Advantage

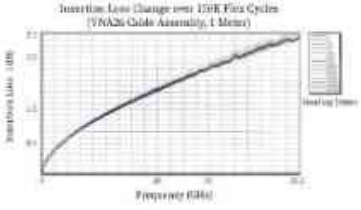
- Negligible changes of phase & amplitude after flexing
- Extra rugged & long-life performance
- Construction is very robust,employing an advanced strain relief system

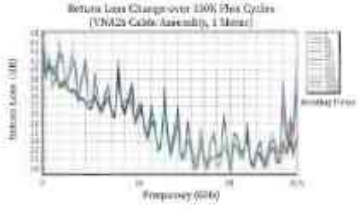
Application

- High stability for precision testing
- Anti-compression & distortion

Electrical

Outer Diameter	15.20mm
Operating Frequency	26.5GHz
Impedance	50Ω
Min. Bending Radius	50mm
Insertion Loss(Max.)	2.52dB/m@26.5GHz
Shielding Effectiveness	<-90dB
Phase Stability over Flex.	±2°@26.5GHz
Amplitude Stability over Flex.	<±0.04dB@26.5GHz
Operating Temp.	25±5 ℃
Storage Temp.	-40~ +50 ℃





Connector & Assembly Information

Part Numbering Code

VNA26 - 47 - 83 - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type	SMD3.5 Male
P/N	SMD3.5-J-02-00
Code	47
Mat.	Stainless steel
Freq.	26.5GHz
VSWR	1.20:1

Type	SMD3.5 Female
P/N	SMD3.5-K-01-00
Code	60
Mat.	Stainless steel
Freq.	26.5GHz
VSWR	1.25:1

Type	N Male
P/N	N-J-15-00
Code	07
Mat.	Stainless steel
Freq.	18GHz
VSWR	1.20:1

Type	NMD3.5 Female
P/N	NMD3.5-K-02-00
Code	83
Mat.	Stainless steel
Freq.	26.5GHz
VSWR	1.25:1

Type	NMD3.5 Male
P/N	NMD3.5-J-01-00
Code	08
Mat.	Stainless steel
Freq.	26.5GHz
VSWR	1.20:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(1)			
	Connector 1	Connector 2	L	DC~6	6~12	12~18	18~26.5	DC~6	6~12	12~18	18~26.5
				GHz				GHz			
VNA26-47-83-L	SMD3.5 Male	SMD3.5 Female	2FT	0.6	1.4	1.8	2.2				
VNA26-60-83-L	SMD3.5 Female	SMD3.5 Female	4FT	1.4	1.9	2.4	3.0	1.15	1.15	1.20	1.30
VNA26-47-08-L	SMD3.5 Male	SMD3.5 Male	1M	1.4	2.0	2.6	3.2				
VNA26-60-08-L	SMD3.5 Female	SMD3.5 Male									

VNA40 Series DC~40GHz Flexible Test Cable for Vector Network Analyzer

(Suited for high accuracy & long life tests)

Features & Advantage

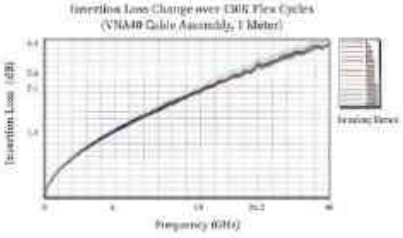
- Negligible changes of phase & amplitude after flexing
- Extra rugged & long-life performance
- Construction is very robust,employing an advanced strain relief system

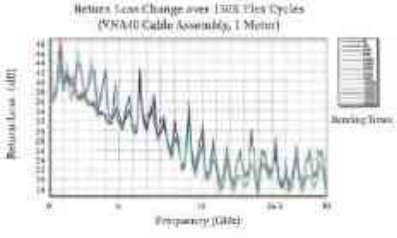
Application

- High stability for precision testing
- Anti-compression & distortion

Electrical

Outer Diameter	15.30mm
Operating Frequency	40GHz
Impedance	50Ω
Min. Bending Radius	50mm
Insertion Loss(Max.)	2.92dB/m@40GHz
Shielding Effectiveness	<-90dB
Phase Stability over flex.	±3°@40GHz
Amplitude Stability over Flex.	<±0.06dB@40GHz
Operating Temp.	25±5 ℃
Storage Temp.	-40~ +50 ℃





Connector & Assembly Information

Part Numbering Code

VNA40 - 40 - 0U - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type	SMD2.92 Female
P/N	SMD2.92-K-01-00
Code	46
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Type	SMD2.92 Male
P/N	SMD2.92-J-01-00
Code	40
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Type	NMD2.92 Male
P/N	NMD2.92-J-01-00
Code	0V
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Type	NMD2.92 Female
P/N	NMD2.92-K-01-00
Code	0U
Mat.	Stainless steel
Freq.	40GHz
VSWR	1.25:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	L	DC~6	6~18	18~26.5	26.5~40	DC~6	6~18	18~26.5	26.5~40
				GHz				GHz			
VNA40-40-0U-L	SMD 2.92 Male	SMD 2.92 Female	2FT	0.9	1.7	2.0	2.4				
VNA40-46-0U-L	SMD 2.92 Female	SMD 2.92 Female	3FT	1.0	1.2	2.8	3.4	1.15	1.20	1.25	1.30
VNA40-40-0V-L	SMD 2.92 Male	NMD 2.92 Male	1M	1.4	1.4	3.0	3.5				
VNA40-46-0V-L	SMD 2.92 Female	NMD 2.92 Male									

VNA50 Series DC~50GHz Flexible Test Cable for Vector Network Analyzer

(Suited for high accuracy & long life tests)

Features & Advantage

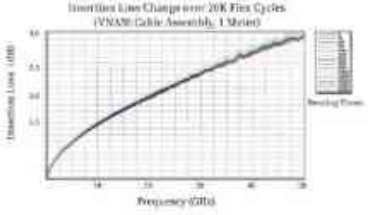
- Negligible changes of phase & amplitude after flexing
- Extra rugged & long-life performance
- Construction is very robust,employing an advanced strain relief system

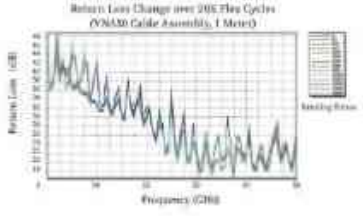
Application

- High stability for precision testing
- Anti-compression & distortion

Electrical

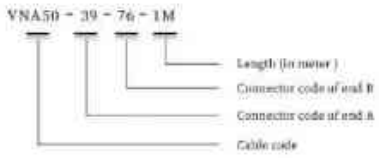
Outer Diameter	15.30mm
Operating Frequency	50GHz
Impedance	50Ω
Min. Bending Radius	50mm
Insertion Loss(Max.)	3.5dB/m@50GHz
Shielding Effectiveness	<-90dB
Phase Stability over flex.	±4°@50GHz
Amplitude Stability over Flex.	<±0.08dB@50GHz
Operating Temp.	23±5℃
Storage Temp.	-40 ~ +50℃





Connector & Assembly Information

Part Numbering Code



Connector Code

Type	SMD2.4 Male
P/N	SMD2.4-J-02-00
Code	39
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.20:1

Type	SMD2.4 Female
P/N	SMD2.4-K-02-00
Code	48
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.30:1

Type	NMD2.4 Female
P/N	NMD2.4-K-02-00
Code	76
Mat.	Stainless steel
Freq.	50GHz
VSWR	1.30:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(:1)			
	Connector 1	Connector 2	L	DC~18	18~26.5	26.5~40	40~50	DC~18	18~26.5	26.5~40	40~50
				GHz				GHz			
VNA50-39-76-2FT	SMD 2.4 Male	NMD 2.4 Female	2FT	1.7	2.0	2.0	3.3	1.20	1.25	1.20	1.35
VNA50-39-76-3FT	SMD 2.4 Male	NMD 2.4 Female	3FT	2.3	2.8	3.0	4.3				
VNA50-39-76-1M	SMD 2.4 Male	NMD 2.4 Female	1M	2.4	3.0	3.8	4.4				
VNA50-48-76-2FT	SMD 2.4 Female	NMD 2.4 Female									
VNA50-48-76-3FT	SMD 2.4 Female	NMD 2.4 Female									
VNA50-48-76-1M	SMD 2.4 Female	NMD 2.4 Female									

VNA67 Series DC~67GHz Flexible Test Cable for Vector Network Analyzer

(Suited for high accuracy & long life tests)

Features & Advantage

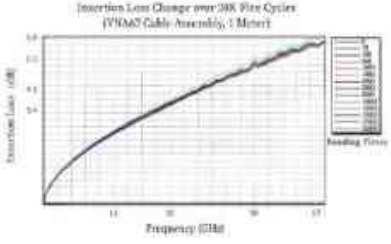
- Negligible changes of phase & amplitude after flexing
- Extra rugged & long-life performance
- Construction is very robust,employing an advanced strain relief system

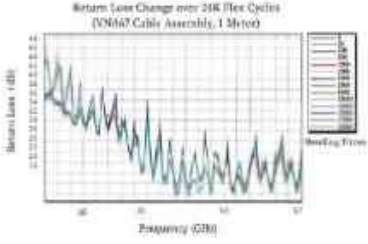
Application

- High stability for precision testing
- Anti-compression & distortion

Electrical

Outer Diameter	15.30mm
Operating Frequency	67GHz
Impedance	50Ω
Min. Bending Radius	50mm
Insertion Loss(Max.)	6.2dB/m@67GHz
Shielding Effectiveness	<-100dB
Phase Stability over flex.	±2°@67GHz
Amplitude Stability over Flex.	<±0.1dB@67GHz
Operating Temp.	23±5℃
Storage Temp.	-40 ~ +50℃





Connector & Assembly Information

Part Numbering Code

VNA67 - 0P - 1V - 1M

- Length (in meter)
- Connector code of end B
- Connector code of end A
- Cable code

Connector Code

Type	SMD1.85 Male
P/N	SMD1.85 J-02-00
Code	0P
Mat.	Stainless Steel
Freq.	67GHz
VSWR	1.25:1

Type	SMD1.85 Female
P/N	SMD1.85 K-02-00
Code	0Y
Mat.	Stainless Steel
Freq.	67GHz
VSWR	1.25:1

Type	NMD1.85 Female
P/N	NMD1.85-K-02-00
Code	1Y
Mat.	Stainless Steel
Freq.	67GHz
VSWR	1.25:1

Standard Type & Technical Specifications (Fast delivery within 1 week)

Model	Connector Type		Length	Attenuation Insertion Loss (dB)				VSWR(>)			
	Connector 1	Connector 2	L	DC~18	18~40	40~50	50~67	DC~18	18~40	40~50	50~67
				GHz				GHz			
VNA67-0P-1V-2PT	SMD1.85 Male	NMD1.85 Female	2PT	2.2	3.0	4.1	4.5	1.25	1.25	1.35	1.35
VNA67-0P-1V-3PT	SMD1.85 Male	NMD1.85 Female	3PT	2.2	3.1	3.9	4.1				
VNA67-0P-1V-1M	SMD1.85 Male	NMD1.85 Female	1M	2.4	3.3	4.0	4.5				
VNA67-0Y-1V-2PT	SMD1.85 Female	NMD1.85 Female									
VNA67-0Y-1V-3PT	SMD1.85 Female	NMD1.85 Female									
VNA67-0Y-1V-1M	SMD1.85 Female	NMD1.85 Female									

High Reliable & Performance Multi-Pin Connector Harness Assemblies

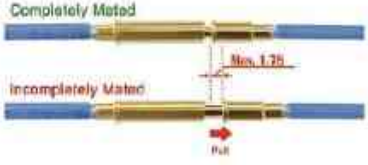
Advantages & Features:

- **Excellent Electrical Performance**

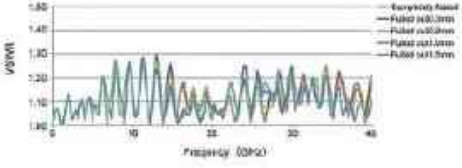
VSWR<1.40:1@50GHz

- **No Performance Changes at Incomplete Mating Condition**
- Multi Channels, Small Size, Light Weight, Easy to Install
- Available for Phase Matching

Allowed Incomplete Mating Interface



VSWR vs. Different Mating Interface



Applications:

- Military & Commercial Antenna Array Systems
- High Speed Data Transmission
- Other Integrated Applications

Push-pull-latching
Multi-pin Coaxial Harness Assemblies

DC~40GHz

Feature & Advantage:

- Security of the Push-pull Self-latching System
- Consistent Impedance and Excellent VSWR:
  <1.30:1 @20GHz, <1.40:1@40GHz
- 360° Screening for Full EMC Shielding
- High Packing Density for Space Savings
- Allowed Incomplete Mating Interface: 2mm

Application:

- Military & Commercial Telecommunication System
- EMI & EMC
- Portable Instrument

NEW

19-Pin High Performance

D38999Multi-Coax Cable Assemblies

Advantages & Features

- Ultra Wide Frequency Range: DC – 40GHz
- Excellent Electrical Performance: VSWR<1.35:1@40GHz
- D38999III Series Tri-Start Quick Coupling & Self Lock
- No Performance Changes at Incomplete Mating Condition
- Available for Phase Matching

Applications

- Military & Commercial Antenna Array Systems
- High Speed Data Transmission
- 5G Test

DC~110GHz

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N, SMA, 3.5mm, 2.92mm, 2.4mm, 1.85mm ,1.0mm, TNC & NMD

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- Durability >1000 Cycles
- Excellent VSWR

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Plot No 10,Shiv Vihar A Block ,Najafgarh Sahibi River Road , Vikasnagar Uttam Nagar New Delhi-110059

+91 88599 78070 +91 80767 49052

info@srfsteleinfra.in

www.srfsteleinfra.in www.srfsteleinfra.com