

RADIO FREQUENCY CABLE SELECTION MANUAL

FOCUS ON RF FIELD

BEIJING YUEXIANG TECHNOLOGY CO., LTD

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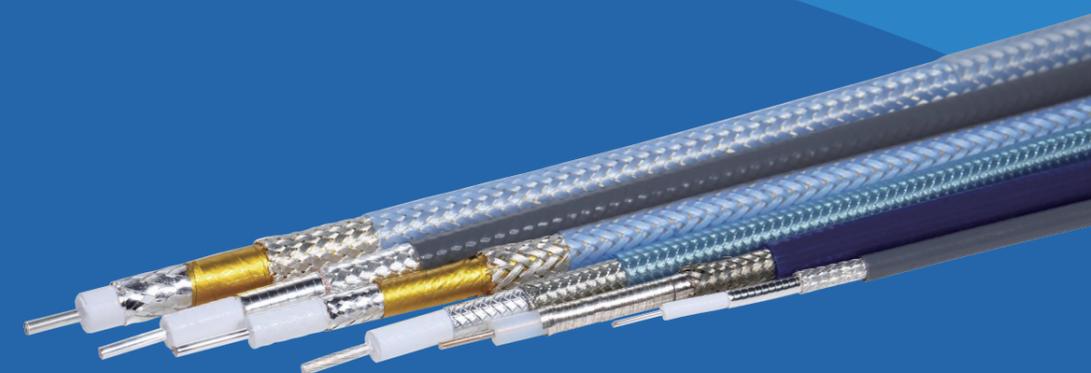
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BEIJING YUEXIANG TECHNOLOGY CO.,LTD



ENTERPRISE INTRODUCTION

BEIJING YUEXIANG TECHNOLOGY CO., LTD

Beijing YERSON Technology Co., Ltd. with radio frequency (RF) and microwave technology as its core, has always been dedicated to the research, development, and innovation of microwave devices and instruments. It provides users with five major product categories, including RF and microwave active & passive devices, connectors and cables, instruments, communication testing, and testing system solutions. Additionally, it offers one-stop customized interconnection communication solutions, continuously empowering fields such as communication testing, radar, electronic countermeasures, industrial microwaves, aerospace, satellite communication, civil communication, medical electronics, and automotive consumption. The company strives to promote digitization and informatization, accelerating the construction of a new intelligent and interconnected world that harmoniously integrates humans with nature.

MARKET AND SERVICE



Aerospace

Advanced communication and signal monitoring technologies serve the armed forces and air traffic control, ensuring the safety of critical infrastructure, as well as providing precise testing and measurement equipment for the aerospace and defense sectors.



Wireless Communication

Cutting-edge broadcast television, post-production, and test and measurement equipment suitable for network operators, broadcasters, studios, the film industry, and manufacturers of electronic entertainment equipment.



Research Institutes and Laboratories

High-precision communication and signal monitoring technologies relied upon by research institutes and laboratories to ensure the smooth progress of scientific research projects and advanced testing and measurement equipment for technological innovation.



Commercial Aircraft

Advanced communication and signal monitoring technologies serve as critical infrastructure products that safeguard the safety of commercial aircraft, alongside precise testing and measurement equipment tailored for the aerospace sector.



Ships

It provides solid technical support for the safe navigation and efficient operation of ships, ensuring both safety and efficiency during maritime voyages.



Medical Equipment

The application of advanced technologies and equipment provides robust safeguards for the safe and efficient operation of medical equipment, laying a solid foundation for the continuous development of the medical industry.

HONORS AND CERTIFICATES



PRODUCT CATALOG

CA Ultra low loss, stable amplitude, and flexibility axis cable 1-4

- CA150
- CA220
- CA220P
- CA360
- CA360P
- CA400
- CA400P
- CA480
- CA520
- CA750
- CA820
- CA1200

CB Low loss stable amplitude flexible coaxial cable 5-6

- CB360
- CB460
- CB520
- CB1200

CD Economic interconnection flexible coaxial cable 7-8

- CD150
- CD265
- CD265W
- CD400

CE Low loss ultra flexible stable amplitude stable phase coaxial cable 9-10

- CE360
- CE500
- CE500P
- CE520P

CL Civil communication & low loss coaxial cable 11-13

- CL100
- CL195
- CL195R
- CL240
- CL240R
- CL400
- CL400R
- CL600
- CL600R

CSR Conventional/low loss semi-rigid coaxial cable 14-15

- Conventional type HC086
- Conventional type HE047
- Conventional type HE086
- Conventional type HE141
- Low loss type HK086
- Low loss type HK141

RG Series coaxial cable 16-17

- RG223
- RG316

CS Manual formable & semi flexible coaxial cable 18-19

- CSF086
- CSF141
- CSM047
- CSM086
- CSM141

High-precision test cable 20-22

- CA360KJ
- CB360KJ
- CA820KJ

PRODUCT CATALOG

Cable connector 23-42

- 1.0 Interface cable connector
- 1.85 Interface cable connector
- 2.4 Interface cable connector
- 2.92 Interface cable connector
- 3.5 Interface cable connector
- 7/16 Interface cable connector
- N Interface cable connector
- SMA Interface cable connector
- SMP Interface cable connector
- SSMA Interface cable connector
- SSMP Interface cable connector

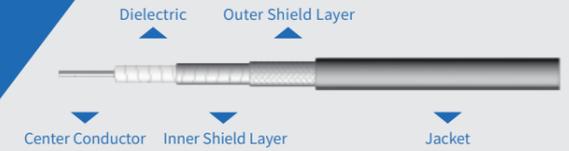
Adapter 43-70

- 1.0 Interface adapter
- 1.85 Interface adapter
- 1.85/1.0 Interface adapter
- 1.85/SSMA Interface adapter
- 2.4 Interface adapter
- 2.4/1.85 Interface adapter
- 2.4/SMP Interface adapter
- 2.4/SSMP Interface adapter
- 2.4/SSMA Interface adapter
- 2.92 Interface adapter
- 2.92/1.85 Interface adapter
- 2.92/2.4 Interface adapter
- 2.92/SMP Interface adapter
- 2.92/SSMA Interface adapter
- 2.92/SSMP Interface adapter
- 3.5 Interface adapter
- 3.5/2.4 Interface adapter
- 3.5/2.92 Interface adapter
- 3.5/BMA Interface adapter
- 3.5/SMP Interface adapter
- N Interface adapter
- N/2.92 Interface adapter
- N/3.5 Interface adapter
- N/SMA Interface adapter
- SMA Interface adapter
- SMA/SMP Interface adapter
- SMA/SSMA Interface adapter

CA ULTRA LOW LOSS, STABLE AMPLITUDE, AND FLEXIBILITY AXIS CABLE

Ultra low loss, stable amplitude, and flexibility axis cable

YX-CA Series



Series Introduction »

The CA series of cables employs a special coaxial design and advanced production techniques, resulting in excellent electrical and mechanical performance across the entire frequency range.

In terms of electrical performance, the cables boast a high signal transmission rate of up to 83%, a temperature phase stability of less than 550PPM, as well as advantages such as low loss, high shielding efficiency, and high power handling capability.

The use of low-density insulation and copper tape wrapping in the mechanical aspect enhances the cables' flexibility and superior mechanical phase stability.

For environmental durability, high-quality raw materials are employed, granting the cables a wide range of operating temperatures, corrosion resistance, moisture and mold prevention, and flame retardancy.



Features

- Working frequency up to 110GHz
- Ultra low loss
- Temperature stable phase 550PPM @ -55~85 °C
- Mechanical phase stability $\pm 5^\circ$
- Stable amplitude $\pm 0.1\text{dB}$
- Lightweight, heat-resistant, high-power

Application Scenarios

- Phased array radar
- Aviation Electronics
- Electronic warfare
- Any situation with strict requirements for loss and phase

Model	Minimum Frequency	Maximum Frequency	Velocity of Propagation	Dielectric strength	Cable OD (mm)
YX-CA150	DC	110	78	200V,DC	1.50
YX-CA220	DC	67	80	350V,DC	2.20
YX-CA220P	DC	67	80	400V,DC	2.36
YX-CA360	DC	40	83	1000V,DC	3.60
YX-CA360P	DC	40	83	1000V,DC	3.80
YX-CA400	DC	40	83	1000V,DC	4.00
YX-CA400P	DC	40	83	1000V,DC	4.20
YX-CA480	DC	26.5	83	1200V,DC	4.80
YX-CA520	DC	26.5	83	1500V,DC	5.20
YX-CA750	DC	18	83	2000V,DC	7.50
YX-CA820	DC	18	83	2500V,DC	8.20
YX-CA1200	DC	8	83	3000V,DC	12.00

Attenuation (dB/100m)/Power (kW/100m) vs. Frequency (MHz) ▼

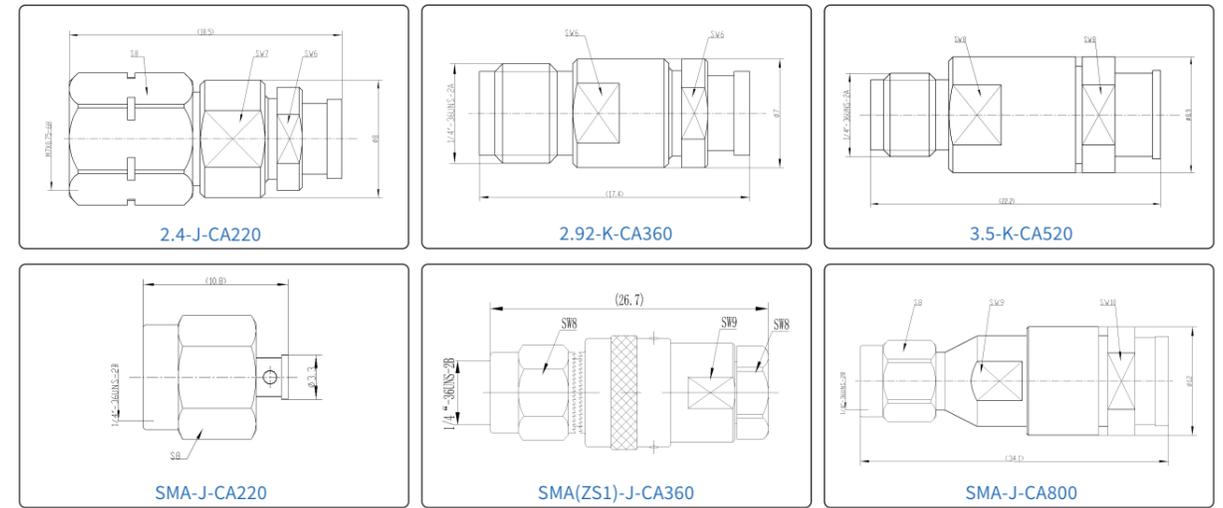
Frequency (MHz)	YX-CA150		YX-CA220		YX-CA220P	
	Attenuation	Average power	Attenuation	Average power	Attenuation	Average power
1000	154.7	0.033	63.7	0.055	63.7	0.055
2000	219.2	0.024	90.8	0.039	90.8	0.039
3000	268.9	0.019	111.9	0.032	111.9	0.032
6000	381.5	0.014	160.4	0.022	160.4	0.022
8000	441.2	0.012	186.5	0.019	186.5	0.019
10000	493.9	0.011	209.8	0.017	209.8	0.017
12000	541.8	0.010	231.1	0.015	231.1	0.015
18000	665.9	0.08	287.1	0.012	287.1	0.012
26500	881.2	0.006	354	0.010	354	0.01
40000	1001.8	0.005	444	0.008	444	0.008
67000	1307.1	0.004	597	0.004	597	0.004
110000	1690.2	0.003				

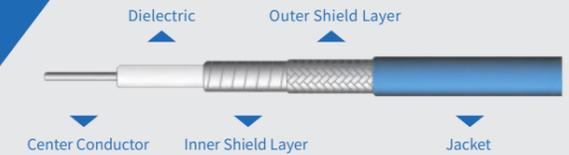
Frequency (MHZ)	YX-CA360		YX-CA360P		YX-CA400	
	Attenuation	Average power	Attenuation	Average power	Attenuation	Average power
1000	37.5	0.509	37.5	0.509	30.98	0.634
2000	53.1	0.371	53.1	0.371	44.16	0.447
3000	65.3	0.282	65.3	0.282	54.41	0.365
6000	93.8	0.203	93.8	0.203	77.98	0.257
8000	108.5	0.177	108.5	0.177	90.68	0.222
10000	121.9	0.156	121.9	0.156	102	0.198
12000	134.2	0.143	134.2	0.143	112.36	0.178
18000	166.7	0.122	166.7	0.122	139.56	0.147
26500	204.8	0.093	204.8	0.093	172.08	0.12
40000	256.4	0.075	256.4	0.075	215.81	0.097

Frequency (MHZ)	YX-CA400P		YX-CA480		YX-CA520	
	Attenuation	Average power	Attenuation	Average power	Attenuation	Average power
1000	30.98	0.634	23.67	0.919	23.41	1.128
2000	44.16	0.447	33.73	0.646	33.29	0.793
3000	54.41	0.365	42.15	0.562	41.05	0.705
4000	63.15	0.293	48.22	0.525	47.76	0.645
6000	77.98	0.257	59.54	0.368	58.49	0.451
8000	90.68	0.222	69.22	0.317	67.89	0.389
10000	102	0.198	77.86	0.282	76.25	0.346
12000	112.36	0.178	85.75	0.252	83.87	0.309
18000	139.56	0.147	106.48	0.207	103.81	0.254
26500	172.08	0.12	131.24	0.169	127.5	0.207
40000	215.81	0.097				

Frequency (MHZ)	YX-CA750		YX-CA820		YX-CA1200	
	Attenuation	Average power	Attenuation	Average power	Attenuation	Average power
1000	15.43	1.74	13.70	1.89	10.00	2.32
2000	21.93	1.23	19.50	1.32	14.40	1.60
3000	26.95	1.09	24.10	1.07	18.00	1.30
4000	31.21	1.00	28.15	0.94	21.00	1.10
5000	35.05	0.84	31.70	0.82	23.80	0.98
6000	38.42	0.70	34.80	0.74	26.30	0.90
8000	44.55	0.61	40.60	0.64	28.70	0.81
10000	49.99	0.54	45.80	0.56	31.00	0.75
12000	54.94	0.49	50.70	0.51		
12400	55.90	0.48	51.50	0.50		
16000	63.85	0.45	59.30	0.44		
18000	63.81	0.43	63.30	0.41		

Dimensional Drawing of Partial Adapter Connector ▼





Series Introduction >>

The CD series of cables adopts a production process featuring double-layer shielding with silver-plated copper tape wrapping combined with round wire braiding. This results in excellent electrical and mechanical performance indicators across the entire frequency range, and offers a high cost-performance ratio, making it a low-loss, low-cost option.

In terms of electrical performance, the signal transmission rate is as high as 70%, with additional advantages of low loss and high shielding efficiency.

In terms of mechanical performance, this series of cables exhibits excellent flexibility and mechanical phase stability. As for environmental usage, the adoption of high-quality environmental-resistant outer jacket materials enables the cables to have a wide range of operating temperatures, corrosion resistance, moisture and mildew prevention, flame retardancy, and other characteristics.



Features

- Maximum operating frequency DC-67GHz
- Excellent shielding performance
- Good bending stability
- The best choice for cabinet jumpers

Application Scenarios

- PIM cable
- Wireless radio station
- Power supply network
- Instruments and meters
- Test cable
- Jumping cables inside the cabinet
- Interconnection between boards

Model	Minimum Frequency	Maximum Frequency	Velocity of Propagation	Dielectric strength	Cable OD (mm)
YX-CD150	DC	67	70	350V,DC	1.58
YX-CD265	DC	26.5	70	1500V,DC	2.65
YX-CD265W	DC	40	70	1500V,DC	2.65
YX-CD400	DC	26.5	70	1500V,DC	4.00

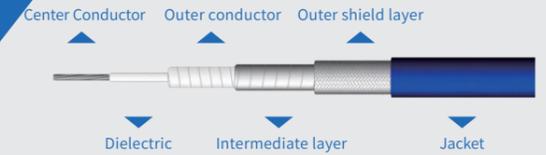
Attenuation (dB/100m)/Power (kW/100m) vs. Frequency (MHz) ▼

Frequency (MHZ)	YX-CD150		YX-CD265		YX-CD265W		YX-CD400	
	Attenuation	Average power						
1000	124	0.074	69.3	0.1	69.3	0.1	38.17	0.29
2000	176.15	0.052	100.31	0.069	100.31	0.069	56.28	0.181
3000	216.47	0.042	125	0.055	125	0.055	71.1	0.143
6000	308.48	0.029	183.73	0.038	183.73	0.038	107.46	0.095
8000	375.63	0.025	216.37	0.032	216.37	0.032	128.31	0.09
10000	401.26	0.022	246.06	0.028	246.06	0.028	147.61	0.069
12000	440.95	0.02	273.66	0.025	273.66	0.025	165.81	0.061
18000	544.46	0.016	348.17	0.02	348.17	0.02	216.09	0.05
26500	666.83	0.003	440.8	0.016	440.8	0.016	280.53	0.036
40000	829.2	0.007			570.5	0.012		
67000	1093.48	0.001						

CE LOW LOSS ULTRA FLEXIBLE STABLE AMPLITUDE STABLE PHASE COAXIAL CABLE



Low loss ultra flexible stable amplitude stable phase coaxial cable YX-CE Series



Series Introduction »

The CE series cables employ a special structural design and advanced production techniques, resulting in excellent electrical and mechanical performance indicators across the full frequency band.

In terms of electrical performance, they boast a signal transmission rate as high as 83%, with a temperature phase stability of less than 1000PPM. Additionally, they feature low loss and high shielding efficiency.

As for mechanical performance, the low-density insulation and copper tape winding contribute to the cables' superior flexibility and extended mechanical durability, as well as stable phase performance.

Regarding environmental usage, the adoption of high-quality, environmentally resistant raw materials endows these cables with a wide range of operating temperatures, corrosion resistance, moisture and mold prevention, and flame retardancy.



Features

- Maximum Operating Frequency: DC - 40GHz
- Mechanical Phase Stability: $\pm 3^\circ$
- Amplitude Stability: $\pm 0.1\text{dB}$
- Temperature Phase Stability: 550PPM
- Ultra-Low Loss
- Excellent Shielding Performance

Application Scenarios

- Missile-borne Equipment
- Vehicle-mounted and Ship-borne Communication Equipment
- Antennas
- Base Stations
- Narrow and Complex Installation Spaces
- Feeding Network for Small Spaces

Model	Minimum Frequency	Maximum Frequency	Velocity of Propagation	Dielectric strength	Cable OD (mm)
YX-CE360	DC	40	76	1000V,DC	3.60
YX-CE500	DC	26.5	76	1500V,DC	5.00
YX-CE500P	DC	26.5	76	1500V,DC	5.20
YX-CE520P	DC	26.5	76	1500V,DC	5.70

Attenuation (dB/100m)/Power (kW/100m) vs. Frequency (MHz) ▼

Frequency (MHz)	YX-CE360		YX-CE500		YX-CE500P		YX-CE520P	
	Attenuation	Average power						
300	27.61	0.22	20.45	0.28	20.45	0.28	18.46	0.28
1000	51.23	0.119	38.47	0.149	38.47	0.149	33.99	0.149
3000	91.02	0.067	69.84	0.082	69.84	0.082	59.65	0.082
6000	131.9	0.046	103.22	0.055	103.22	0.055	85.36	0.055
12000	192.88	0.032	154.9	0.037	154.9	0.037	122.8	0.037
16000	226.59	0.027	184.25	0.031	184.25	0.031	142.3	0.031
18000	242.2	0.025	198.03	0.029	198.03	0.029	152.35	0.029
26500	302.29	0.02	252.07	0.023	252.07	0.023	186.2	0.023
40000	384.83	0.016						



Series Introduction »

The CL series cable is a high-performance bandwidth, low loss 50 Ω coaxial communication cable

Cables are widely used in various communication and RF transmission scenarios. CL cable is low

Known for its loss, high bandwidth, durability, and flexibility, it is suitable for various high-speed wireless technologies

Technologies such as Wi Fi, cellular networks, radar systems, and satellite communications.



Features

- Low loss characteristics
- High bandwidth support
- Durability
- Flexibility
- Excellent shielding performance

Application Scenarios

- Oil and gas fields
- Roof installation
- Wiring inside buildings
- Wireless communication system

Model	Minimum Frequency	Maximum Frequency	Velocity of Propagation	Shielding power	Cable OD (mm)
YX-CL100	DC	6	66	90	2.79
YX-CL195	DC	6	80	90	4.95
YX-CL195R	DC	6	80	90	4.95
YX-CL240	DC	6	83	90	6.10
YX-CL240R	DC	6	83	90	6.10
YX-CL400	DC	6	83	90	10.29
YX-CL400R	DC	6	83	90	10.29
YX-CL600	DC	6	83	90	14.99
YX-CL600R	DC	6	83	90	14.99

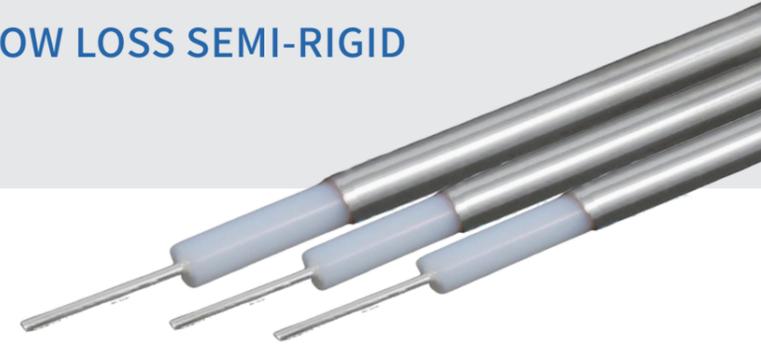
Attenuation (dB/100m)/Power (kW/100m) vs. Frequency (MHz) ▼

Frequency (MHz)	YX-CL100		YX-CL195		YX-CL195R	
	Attenuation	Average power	Attenuation	Average power	Attenuation	Average power
30	13	0.23	6	0.89	8	0.78
50	17	0.18	8	0.68	10	0.61
150	29	0.1	15	0.39	17	0.35
220	36	0.08	18	0.32	21	0.28
450	52	0.06	26	0.22	30	0.2
900	75	0.4	37	0.16	43	0.14
1500	99	0.03	48	0.12	57	0.1
1800	109	0.03	52	0.11	62	0.09
2000	115	0.03	55	0.1	66	0.09
2500	131	0.02	62	0.09	74	0.08
5800	210	0.01	98	0.06	117	0.05
6000	214	0.01	100	0.05	119	0.05

Frequency (MHZ)	YX-CL240		YX-CL240R		YX-CL400	
	Attenuation	Average power	Attenuation	Average power	Attenuation	Average power
30	4	1.49	5	1.24	2	3.33
50	6	1.15	7	0.96	3	2.57
150	10	0.66	12	0.55	5	1.47
220	12	0.54	14	0.45	6	1.2
450	17	0.38	21	0.31	9	0.83
900	25	0.26	30	0.22	13	0.58
1500	32	0.2	39	0.17	17	0.44
1800	36	0.18	43	0.15	19	0.4
2000	38	0.17	45	0.14	20	0.37
2500	42	0.15	51	0.13	22	0.33
5800	67	0.1	80	0.08	36	0.21
6000	68	0.09	82	0.08	37	0.19

Frequency (MHZ)	YX-CL400R		YX-CL600		YX-CL600R	
	Attenuation	Average power	Attenuation	Average power	Attenuation	Average power
30	3	2.77	1	5.51	2	4.59
50	3	2.14	2	4.24	2	3.53
150	6	1.22	3	2.41	4	2
220	7	1	4	1.97	5	1.64
450	11	0.69	6	1.35	7	1.12
900	15	0.48	8	0.93	10	0.77
1500	20	0.36	11	0.7	13	0.58
1800	22	0.33	12	0.63	14	0.52
2000	24	0.31	13	0.59	15	0.49
2500	27	0.28	15	0.52	17	0.43
5800	43	0.17	24	0.32	29	0.26
6000	43	0.17	24	0.3	30	0.25

CSR CONVENTIONAL/LOW LOSS SEMI-RIGID COAXIAL CABLE



Series Introduction »

The CSR series is a semi steel cable with a seamless annealed copper tube as its outer conductor (with bare copper) Various coatings such as outer conductor, nickel plating, ternary alloy, etc. are available for selection. Due to the shielding layer being closed structure, so the cable has the best shielding performance and the smallest outer conductor loss consumption.

In terms of electrical performance, CSR series cables have low RF leakage and shielding efficiency Advanced advantages.

In terms of mechanical performance, it has strong tensile strength and bending fixation formability, However, during use, precautions should be taken to prevent excessive bending radius and secondary bending that may cause damage to the outer conductor Damage.

In terms of environmental resistance, cables have strong adaptability to the environment and are generally customized according to specific requirements Provide different coating protection for the usage environment.



Features

- Maximum Operating Frequency: DC-40GHz
- Excellent Stability
- Superior Low-Temperature Resistance
- Ideal for Fixed Forming Applications in Small Spaces

Application Scenarios

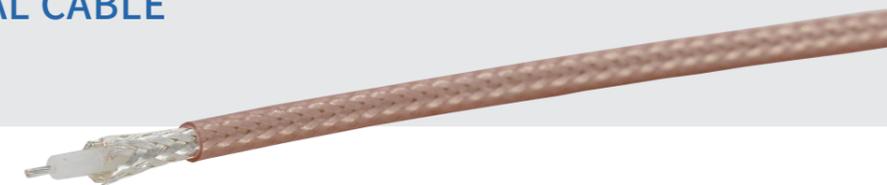
- Interconnection between boards and cards
- Jumpers within cabinets
- Airborne radar systems
- Missile-borne systems
- Phased array radars
- Feed networks in small spaces
- Instrumentation and testing equipment

Conventional/low loss
semi-rigid coaxial cable

YX-CSR Series



RG SERIES COAXIAL CABLE



Model	Minimum Frequency	Maximum Frequency	Velocity of Propagation	Dielectric strength	Cable OD (mm)
YX-HC086	DC	40	70	500V,DC	2.18
YX-HE047	DC	40	70	100V,DC	1.22
YX-HE086	DC	40	76	500V,DC	2.18
YX-HE141	DC	26.5	70	500V,DC	3.58
YX-HK086	DC	40	81	500V,DC	2.18
YX-HK141	DC	26.5	76	1000V,DC	3.58

Attenuation (dB/100m)/Power (kW/100m) vs. Frequency (MHz) ▼

Frequency (MHz)	YX-HC086		YX-HE047		YX-HE086	
	Attenuation	Average power	Attenuation	Average power	Attenuation	Average power
1000	64.9	0.256	110	0.059	64.9	0.256
2000	93.1	0.179	160	0.041	93.1	0.179
3000	115.2	0.144	200	0.033	115.2	0.144
6000	166.6	0.1	290	0.023	166.6	0.1
8000	194.7	0.085	340	0.02	194.7	0.085
10000	219.9	0.076	380	0.018	219.9	0.076
12400	247.6	0.067	430	0.016	247.6	0.067
18000	304.9	0.055	520	0.013	304.9	0.055
26500	379.9	0.044	650	0.01	379.9	0.044
40000	482.7	0.034	820	0.008	482.7	0.034

Frequency (MHz)	YX-HE141		YX-HK086		YX-HK141	
	Attenuation	Average power	Attenuation	Average power	Attenuation	Average power
1000	38.2	0.335	54.5	0.259	31.7	1.121
2000	55.5	0.231	77.4	0.182	45.5	0.781
3000	69.3	0.185	95.1	0.148	56.4	0.63
6000	102.4	0.125	135.5	0.104	81.7	0.435
8000	120.8	0.106	157.1	0.09	95.6	0.372
10000	137.7	0.093	176.2	0.08	108.1	0.329
12400	165.4	0.082	196.9	0.072	121.8	0.292
18000	195.9	0.065	238.9	0.059	150.3	0.236
26500	249.2	0.051	292.4	0.048	187.7	0.189
40000			363.4	0.039		

Series Introduction »

RG series cables typically refer to a specific type of coaxial cable used for communication. This type of cable is widely used for data transmission, video transmission, and other types of communication applications. Due to its unique structure and excellent performance, RG series cables occupy an important position in the field of communication.



Features

- Good transmission performance
- Stable connection
- Durability

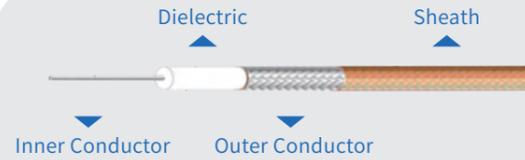
Application Scenarios

- Closed Circuit Television System (CCTV)
- Cable Television (Cable TV)
- Broadcasting and professional audio and video
- Home entertainment system
- Short distance data transmission

Multi layer protection structure diagram

1. Central conductor: usually a single copper wire or copper plated steel wire
- 2-Insulation layer: Use polyethylene (PE) or other insulation materials
- 3- Shielding layer: woven mesh or aluminum foil, used to reduce electromagnetic interference
- 4- Outer sheath: PVC or other protective material, providing mechanical protection

RG Series coaxial cable
YX-RG Series



CS MANUAL FORMABLE & SEMI FLEXIBLE COAXIAL CABLE



Model	Minimum Frequency	Maximum Frequency	Impedance	Transmission speed (%)	Cable OD (mm)
YX-RG223	DC	6	50	70	5.35
YX-RG316	DC	6	50	70	2.5

Attenuation (dB/100m)/Power (kW/100m) vs. Frequency (MHz) ▼

Frequency (MHz)	YX-RG316		YX-RG223	
	Attenuation	Average power	Attenuation	Average power
100	32	0.42	13	2.35
400	66	0.21	27	1.05
900	101	0.14	43	0.64
1000	107	0.135	46	0.6
1800	147	0.1	63	0.43
2400	172	0.078	72	0.35
3000	195	0.072	92	0.31
5000	260	0.061	126	0.25
6000	290	0.052	142	0.2

Series Introduction »

Manual formable semi flexible cable is a type of cable with good flexibility and mechanical strength, usually woven from multiple strands of thin copper or aluminum wire, with a weaving layer of more than three layers. This type of cable can transmit signals and power under bending and twisting conditions, while also having good protective properties such as waterproofing, oil resistance, and high temperature resistance. Due to its excellent flexibility and mechanical strength, manually formable semi flexible cables are suitable for high repeatability application environments.



Application Scenarios

- Delay line
- Wireless equipment
- Internal interconnection of base stations
- Multi channel data transmission line
- Interconnection of microwave devices and subsystems

Multi layer protection structure diagram

1. Inner conductor: usually copper, surface may be silver plated to reduce losses
- 2-Insulation layer: made of materials such as polyethylene and polytetrafluoroethylene, and often using foaming technology to improve flexibility
- 3- External conductor: wrapped in copper mesh or aluminum foil
- 4- Sheath layer: Choose whether it is needed according to the specific application environment

Manual formable&semi flexible coaxial cable
YX-CS Series



HIGH-PRECISION TESTING CABLE



Model	Minimum Frequency	Maximum Frequency	Impedance	Transmission speed (%)	Cable OD (mm)
YX-CSF086	DC	40	50	70	2.60
YX-CSF141	DC	26.5	50	71	4.10
YX-CSM047	DC	18	50	70	1.19
YX-CSM086	DC	40	50	70	2.18
YX-CSM141	DC	26.5	50	71	3.60

Attenuation (dB/100m)/Power (kW/100m) vs. Frequency (MHz) ▼

Frequency (MHZ)	YX-CSF086		YX-CSF141		YX-CSM047	
	Attenuation	Average power	Attenuation	Average power	Attenuation	Average power
400	44	0.418	23	0.515	74	0.054
500	49	0.338	26	0.412	83	0.046
1000	72	0.219	37	0.315	124	0.031
2000	107	0.142	54	0.218	178	0.022
3000	134	0.11	68	0.176	221	0.018
4000	149	0.09	79	0.152	253	0.015
5000	180	0.08	85	0.136	296	0.013
6000	186	0.075	96	0.124	318	0.011
10000	267	0.052	135	0.096	431	0.0092
18000	373	0.036	190	0.062	603	0.0067
26500	475	0.013	242	0.041		
40000	572	0.011				

Frequency (MHZ)	YX-CSM086		YX-CSM141	
	Attenuation	Average power	Attenuation	Average power
400	44	0.418	23	0.515
500	49	0.338	26	0.412
1000	72	0.219	37	0.315
2000	107	0.142	54	0.218
3000	134	0.11	68	0.176
4000	149	0.09	79	0.152
5000	180	0.08	85	0.136
6000	186	0.075	96	0.124
10000	267	0.052	135	0.096
18000	373	0.036	190	0.062
26500	475	0.013	242	0.041
40000	572	0.011		

Series Introduction »

The CP Series of high-precision test cables integrates innovative structural design with cutting-edge production technology, ensuring exceptional electrical and mechanical performance across a broad frequency range. They offer an unparalleled cost-effectiveness, making them the prime choice for low-loss testing.

In terms of electrical performance, their superior low-loss characteristics and efficient shielding design effectively suppress electromagnetic interference, guaranteeing high accuracy and stability of test data.

Regarding mechanical performance, the high-precision test cables feature a reinforced structural design, including multi-layer composite shielding and high-strength core materials. This not only enhances the cable's tensile and compression strength but also improves its torsion resistance, ensuring stable performance even in complex testing environments.

For environmental usage, this series of cables has taken into full consideration the application requirements in extreme conditions, employing outer jacket materials with exceptional weather resistance. These materials boast a wide operating temperature range and exhibit superior corrosion resistance, moisture and mold resistance, as well as flame retardancy, ensuring long-term stable operation of the cables in harsh environments and extending their service life.



Features

- The frequency can reach 50GHz
- Mechanical phase: $\pm 7^\circ$
- Amplitude stability: $\pm 0.05\text{dB}$
- Bending resistance and long lifespan
- Small wire diameter and light weight
- Stable performance and high testing accuracy
- Excellent performance in high and low temperature environments
- Good tension release design, sturdy structure

Application Scenarios

- Research and development laboratory/ Anechoic chamber
- RF switch
- Modular instrument testing
- R&D and production testing of microwave devices
- VNA (Vector Network Analyzer)

High-precision testing cable



1.0 INTERFACE CABLE CONNECTOR

Model	Minimum Frequency	Maximum Frequency	Impedance	Transmission speed (%)	Cable OD (mm)
YX-CA360KJ	DC	40	50	80	6.2
YX-CB360KJ	DC	50	50	76	6.2
YX-CA820KJ	DC	18	50	84	10.4

Attenuation (dB/100m)/Power (kW/100m) vs. Frequency (MHz) ▼

Frequency (MHz)	YX-CB360KJ		YX-CA360KJ		YX-CA820KJ	
	Attenuation	Average power	Attenuation	Average power	Attenuation	Average power
1000	43.79	0.409	37.2	0.509	13.7	1.894
2000	62.18	0.288	53	0.358	19.5	1.324
3000	76.40	0.254	65.25	0.291	24.1	1.071
4000	88.45	0.235	75.65	0.265	28.2	0.915
6000	108.82	0.165	93.35	0.203	34.8	0.743
8000	126.12	0.142	108.5	0.175	40.6	0.636
10000	141.47	0.115	121.95	0.156	45.8	0.564
12000	155.44	0.099	134.20	0.145	50.7	0.511
12400	158.15	0.098	136.55	0.139	51.5	0.502
16000	180.43	0.095	156.28	0.128	59.3	0.436
18000	191.82	0.093	166.45	0.115	63.3	0.409
26500	234.8	0.076	204.85	0.093		
40000	291.75	0.061	256.35	0.075		
50000	328.51	0.052				

Product Model

- YX-1.0-J-CA150 Compatible cable:CA150
- YX-1.0-K-CA150 Compatible cable:CA150

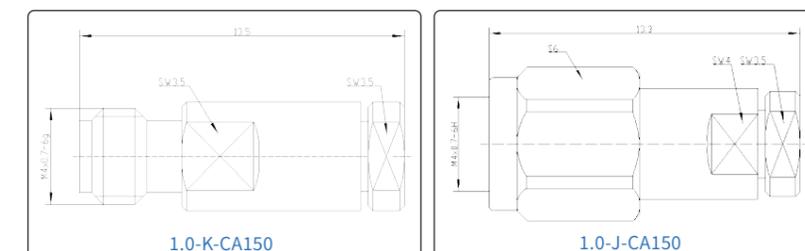
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-110GHz
VSWR	≤1.50
Dielectric withstand voltage	500V rms
Insulation resistance	≥2000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Outline Drawing



1.85 INTERFACE CABLE CONNECTOR

Product Model

•YX-1.85-J-CA150G Compatible cable:CA150

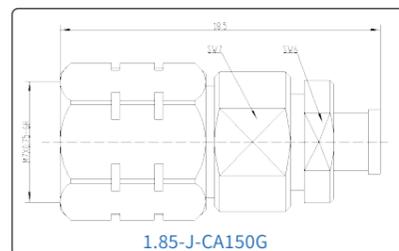
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-67GHz
VSWR	≤1.35
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Outline Drawing



2.4 INTERFACE CABLE CONNECTOR

Product Model

•YX-2.4-J-CA220 Compatible cable:CA220

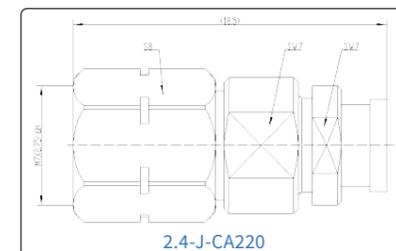
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-50GHz
VSWR	≤1.25
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Outline Drawing



2.4 INTERFACE CABLE CONNECTOR

Product Model

•YX-2.4-J-CA360 Compatible cable:CA360

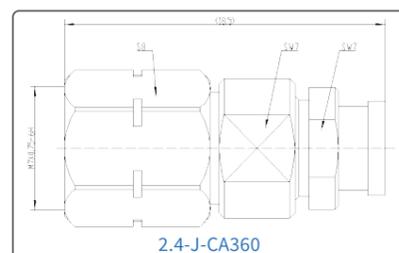
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-40GHz
VSWR	≤1.25
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Outline Drawing



2.4 INTERFACE CABLE CONNECTOR

Product Model

•YX-2.4-JHE086 Compatible cable:086semi rigid or semi flexible
 •YX-2.4-KHE086 Compatible cable:086semi rigid or semi flexible

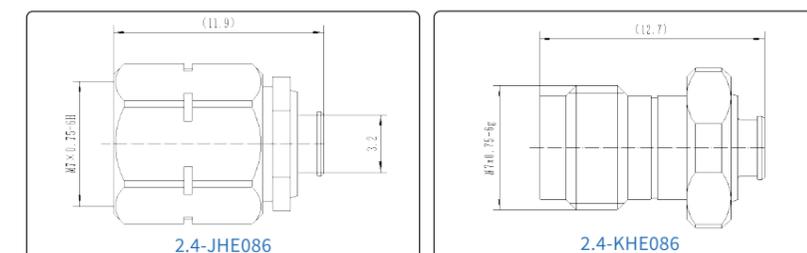
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-50GHz
VSWR	≤1.30
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Outline Drawing



Product Model

- YX-2.92-JHE086 Compatible cable:086semi rigid or semi flexible
- YX-2.92-KHE086 Compatible cable:086semi rigid or semi flexible

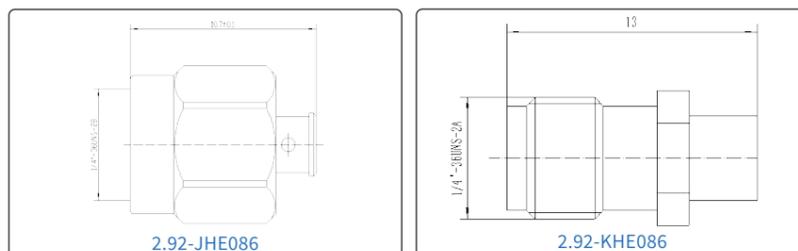
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-40GHz
VSWR	≤1.25
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Outline Drawing



Product Model

- YX-2.92-JHK086 Compatible cable:086 Low loss Semi-rigid
- YX-2.92-JHE086-D Compatible cable:086 Low loss Semi-rigid (Returnable screw sleeve)

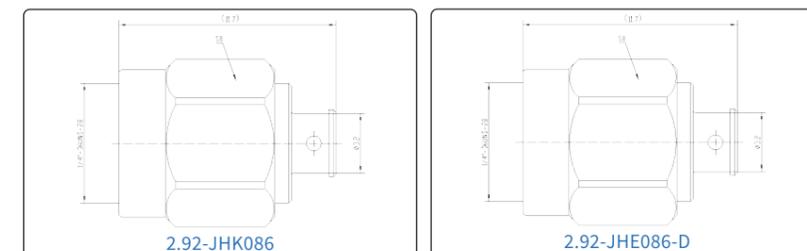
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-40GHz
VSWR	≤1.25
Dielectric withstand voltage	750V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Outline Drawing



3.5 INTERFACE CABLE CONNECTOR

Product Model

- YX-3.5-JHE086 Compatible cable:086semi rigid or semi flexible
- YX-3.5-KHE086 Compatible cable:086semi rigid or semi flexible

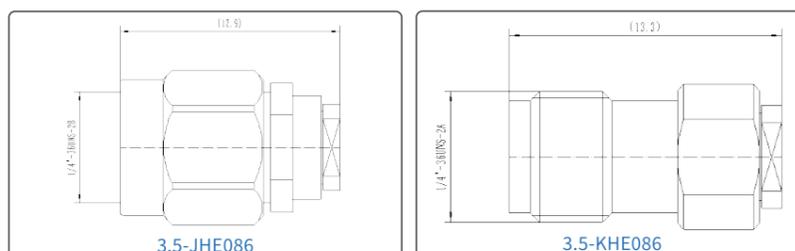
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-26.5GHz
VSWR	≤1.25
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Outline Drawing



7/16 INTERFACE CABLE CONNECTOR

Product Model

- YX-7/16-J-CB1200 Compatible cable:CB1200

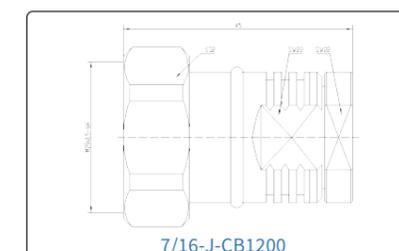
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-6GHz
VSWR	≤1.25
Dielectric withstand voltage	2500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Brass,CSZ plated
Dielectric	PTFE
Contact Pin	Brass,Sliver plated

Outline Drawing



Product Model

- YX-N-J-CD400 Compatible cable:CD400
- YX-N-K-CD400 Compatible cable:CD400

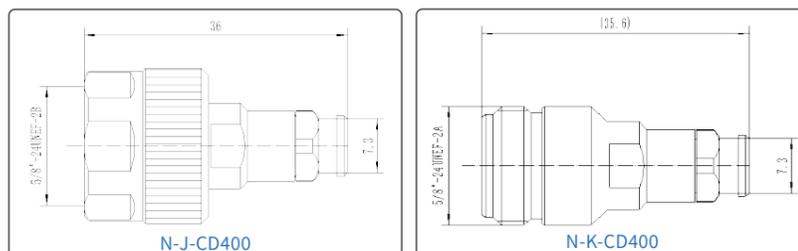
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-18GHz
VSWR	≤1.30
Dielectric withstand voltage	1500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PTFE
Contact Pin	Brass,Gold plated

Outline Drawing



Product Model

- YX-SMA-J240G-2 Compatible cable:CL240

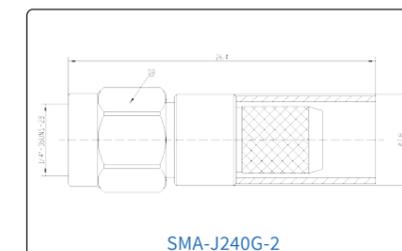
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-6GHz
VSWR	≤1.25
Dielectric withstand voltage	1000V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PTFE
Contact Pin	Brass,Gold plated

Outline Drawing



Product Model

•YX-SMA-J-CB520 Compatible cable:CB520

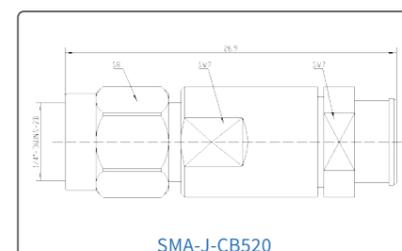
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-26.5GHz
VSWR	≤1.25
Dielectric withstand voltage	1000V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PTFE
Contact Pin	Brass,Gold plated

Outline Drawing



Product Model

•YX-SMA-JHE086 Compatible cable:086semi-rigid or semi-flexible

•YX-SMA-JHK141 Compatible cable:HE141,HK141

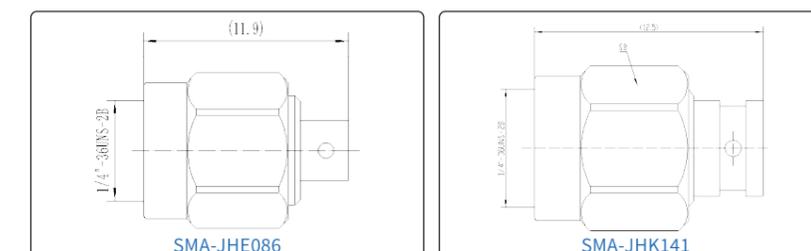
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-26.5GHz
VSWR	≤1.30
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PTFE
Contact Pin	Brass,Gold plated

Outline Drawing



SMA INTERFACE CABLE CONNECTOR

Product Model

- YX-SMA-J-CD400 Compatible cable:CD400
- YX-SMA-J-CA360P Compatible cable:CA360P
- YX-SMA-K-CD400 Compatible cable:CD400
- YX-SMA-JHK086 Compatible cable:HK086 Low loss Semi-rigid
- YX-SMA-JHK086-D Compatible cable:HK086 Low loss Semi-rigid (Returnable screw sleeve)

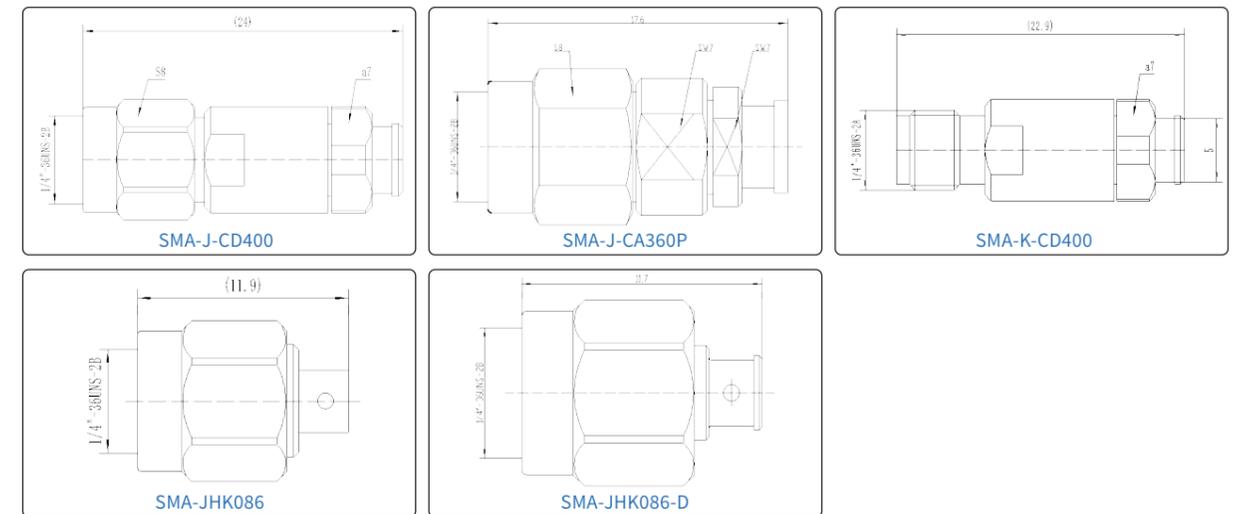
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-26.5GHz
VSWR	≤1.25
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PTFE
Contact Pin	Brass,Gold plated

Outline Drawing



SMA INTERFACE CABLE CONNECTOR

Product Model

- YX-SMA-KHE086 Compatible cable:086semi rigid or semi flexible
- YX-SMA-JWB2-1G Compatible cable:HE086,HK086

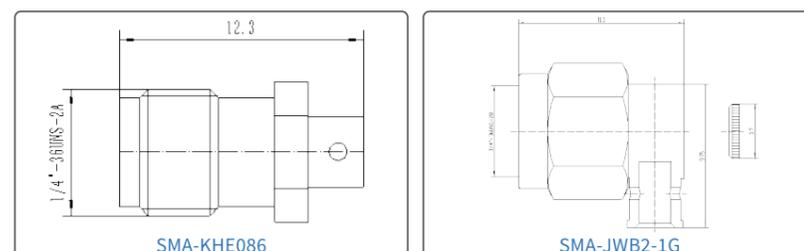
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-18GHz
VSWR	≤1.25
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+165°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PTFE
Contact Pin	Brass,Gold plated

Outline Drawing



SMP INTERFACE CABLE CONNECTOR

Product Model

- YX-SMP-JWB2-S Compatible cable:086semi flexible

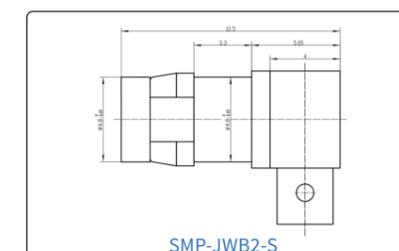
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-6GHz
VSWR	≤1.30
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-45°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Brass,Gold plated
Dielectric	PTFE
Contact Pin	Tin bronze,Gold plated

Outline Drawing



Product Model

•YX-SMP-KWB2 Compatible cable:086semi rigid or semi flexible

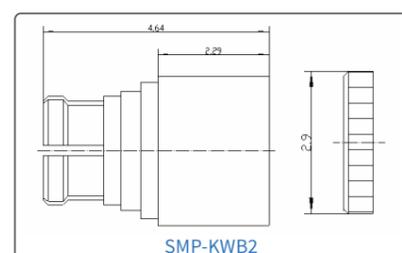
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-26.5GHz
VSWR	≤1.35
Dielectric withstand voltage	500V rms
Insulation resistance	≥2000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Beryllium copper,Gold plated
Dielectric	PTFE
Contact Pin	Beryllium copper,Gold plated

Outline Drawing



Product Model

•YX-SMP-KW-CA220 Compatible cable:CA220
 •YX-SMP-KB2 Compatible cable:086semi rigid or semi flexible

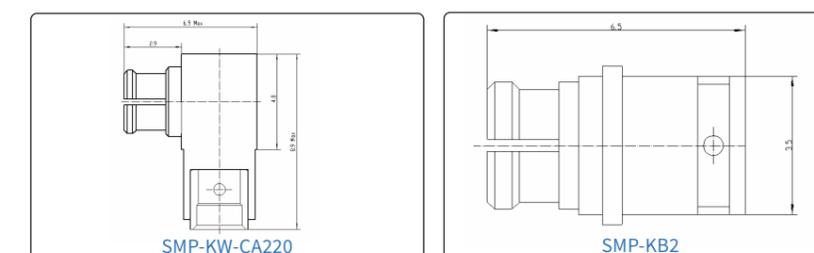
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-40GHz
VSWR	≤1.50
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+165°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Beryllium copper,Gold plated
Dielectric	PTFE
Contact Pin	Beryllium copper,Gold plated

Outline Drawing



Product Model

•YX-SSMA-JHK086-D Compatible cable:HK086Low loss Semi-rigid
(Returnable screw sleeve)

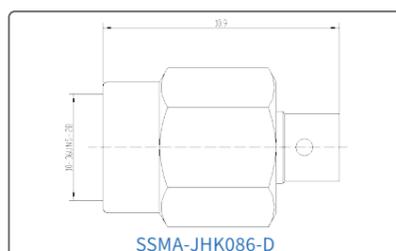
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-26.5GHz
VSWR	≤1.25
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+165°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PTFE
Contact Pin	Brass,Gold plated

Outline Drawing



Product Model

•YX-SSMP-J-CA220 Compatible cable:CA220
•YX-SSMP-K-CA220 Compatible cable:CA220

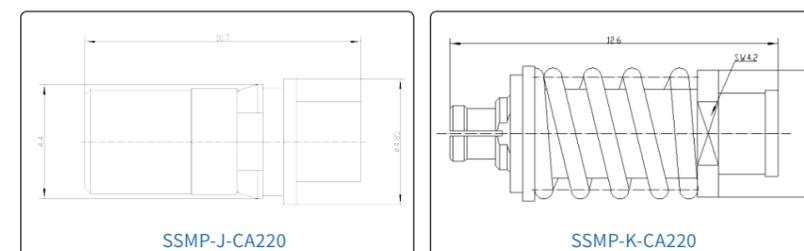
Electrical Specifications

Item	Specification
Impedance	50Ω
Operating frequency range	DC-40GHz
VSWR	≤1.50
Dielectric withstand voltage	500V rms
Insulation resistance	≥5000MΩ
Temperature range	-55°C to+165°C
Durability	≥500 cycles
RoHS	Compliant

Structural Materials and Plating

Structure	Material and plating
Body	Brass,Gold plated
Dielectric	PTFE
Contact Pin	Tin bronze,Gold plated

Outline Drawing



1.0 INTERFACE ADAPTER

Product Model

- YX-1.0-JJG01
- YX-1.0-JKG01
- YX-1.0-KKG01

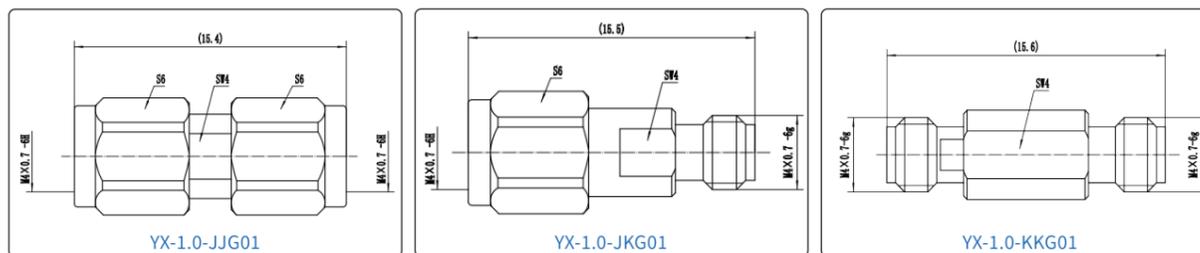
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-110GHz
VSWR	≤1.50
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



1.85 INTERFACE ADAPTER

Product Model

- YX-1.85-JJG01
- YX-1.85-JKG01
- YX-1.85-KKG01

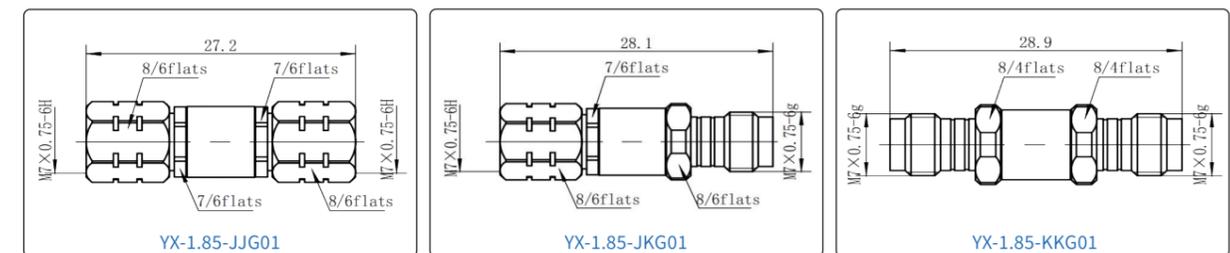
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-67GHz
VSWR	≤1.30
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



1.85/1.0 INTERFACE ADAPTER

Product Model

- YX-1.85/1.0-JJG01
- YX-1.85/1.0-JKG01
- YX-1.85/1.0-KJG01
- YX-1.85/1.0-KKG01

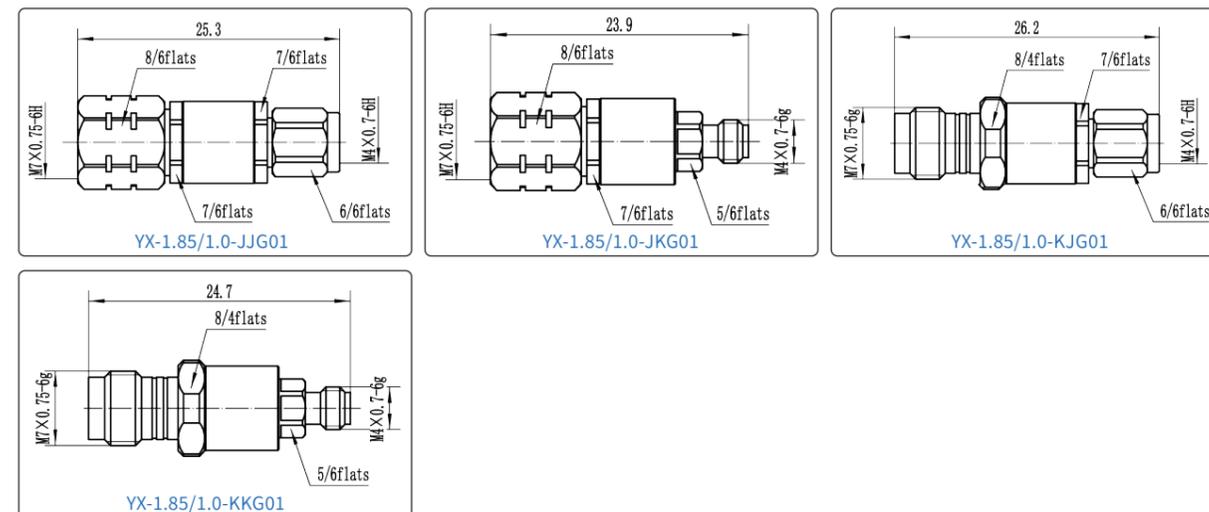
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-67GHz
VSWR	≤1.30
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



1.85/SSMA INTERFACE ADAPTER

Product Model

- YX-1.85/SSMA-JJG01
- YX-1.85/SSMA-JKG01
- YX-1.85/SSMA-KJG01
- YX-1.85/SSMA-KKG01

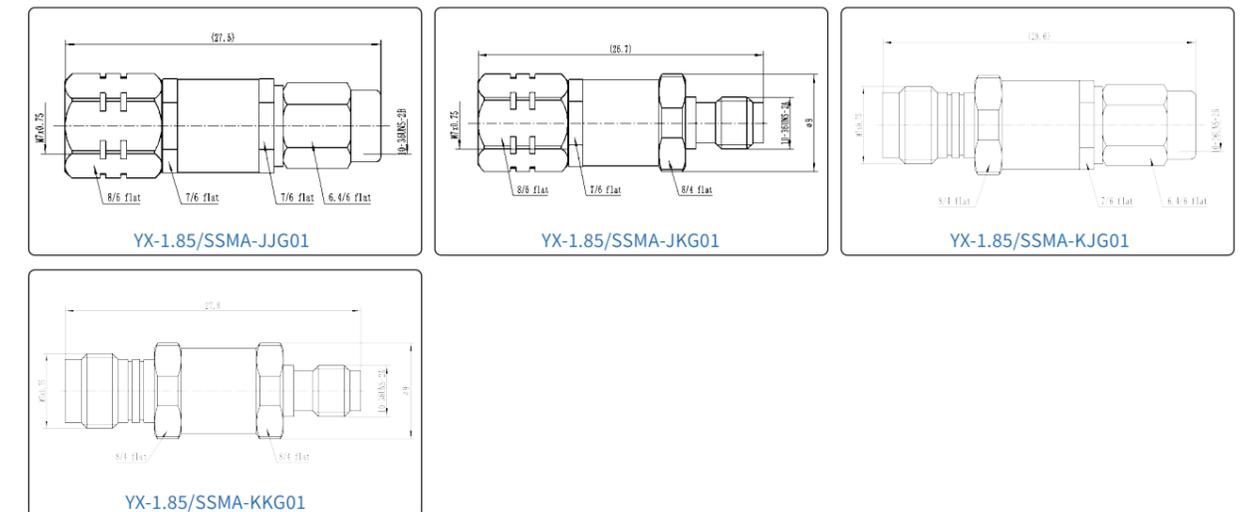
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-40GHz
VSWR	≤1.30
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



2.4 INTERFACE ADAPTER

Product Model

- YX-2.4-JJG01
- YX-2.4-JKG01
- YX-2.4-KFKG01
- YX-2.4-KKG01
- YX-2.4-KYKG01

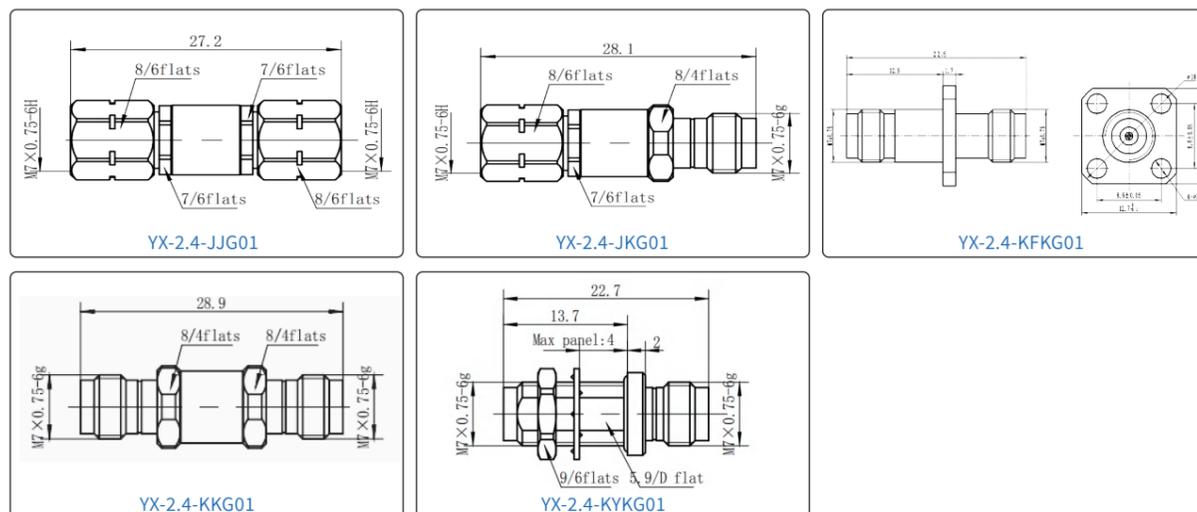
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-50GHz
VSWR	≤1.20
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



2.4/1.85 INTERFACE ADAPTER

Product Model

- YX-2.4/1.85-JJG01
- YX-2.4/1.85-JKG01
- YX-2.4/1.85-KJG01
- YX-2.4/1.85-KKG01

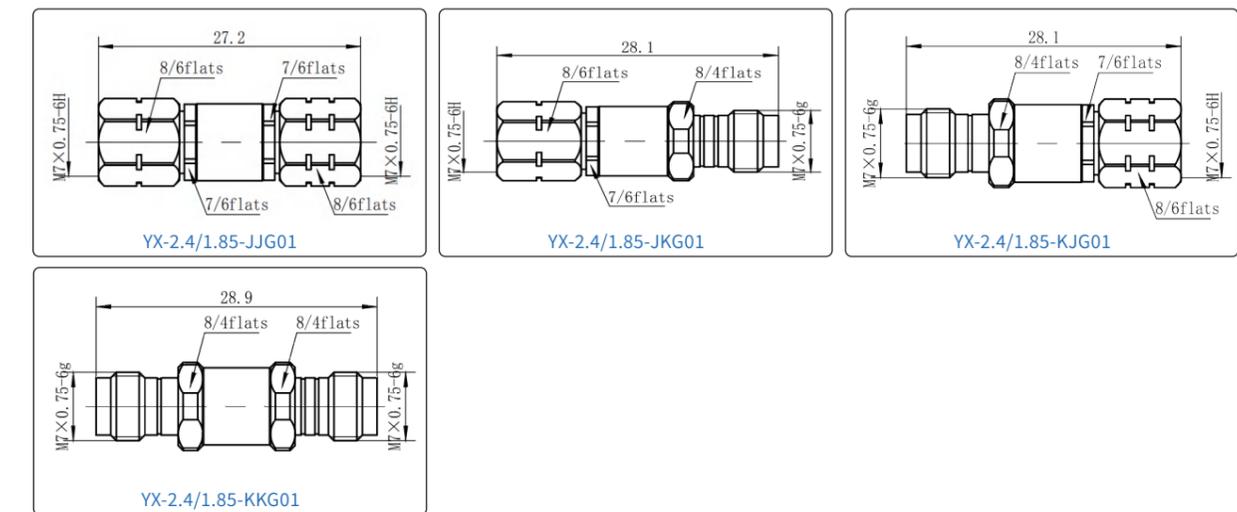
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-50GHz
VSWR	≤1.20
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



2.4/SMP INTERFACE ADAPTER

Product Model

- YX-2.4/SMP-JJG01
- YX-2.4/SMP-JKG01
- YX-2.4/SMP-KJG01
- YX-2.4/SMP-KKG01

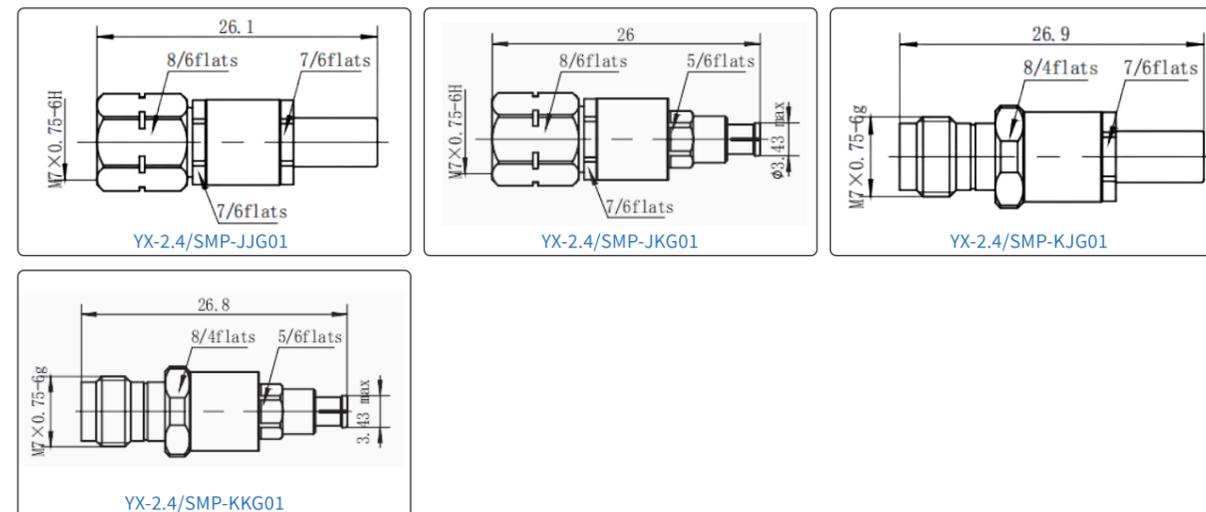
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000/PTFE
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-40GHz
VSWR	≤1.30
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



2.4/SSMP INTERFACE ADAPTER

Product Model

- YX-2.4/SSMP-JJG01
- YX-2.4/SSMP-JKG01
- YX-2.4/SSMP-KJG01
- YX-2.4/SSMP-KKG01

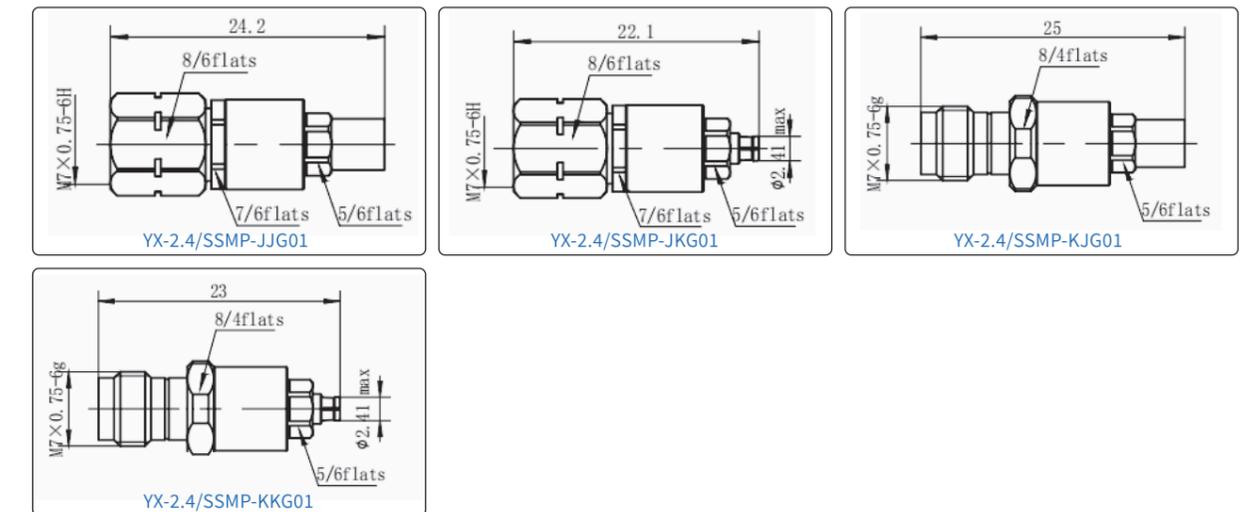
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-40GHz
VSWR	≤1.30
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



2.4/SSMA INTERFACE ADAPTER

Product Model

- YX-2.4/SSMA-JJG01
- YX-2.4/SSMA-JKG01
- YX-2.4/SSMA-KJG01
- YX-2.4/SSMA-KKG01

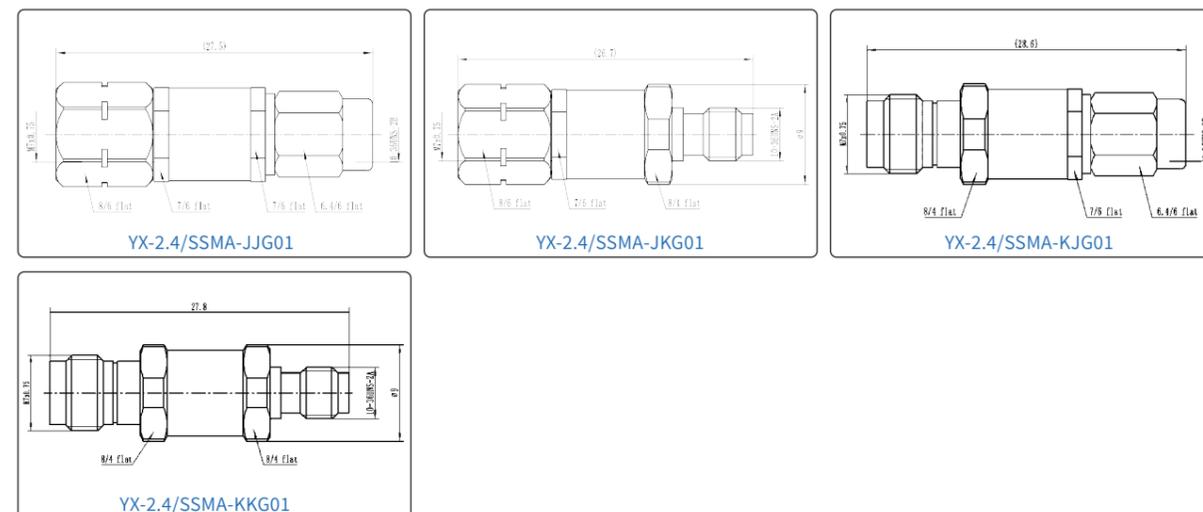
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-40GHz
VSWR	≤1.20
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



2.92 INTERFACE ADAPTER

Product Model

- YX-2.92-JJG01
- YX-2.92-JKG01
- YX-2.92-KFKG01
- YX-2.92-KKG01
- YX-2.92-KYKG01

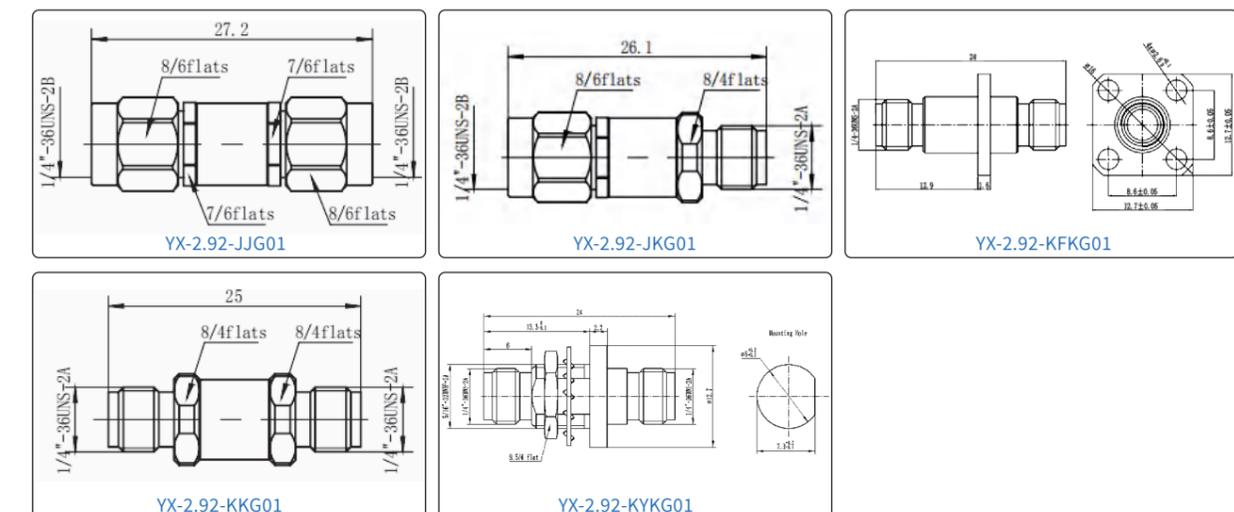
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-40GHz
VSWR	≤1.15
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



2.92/1.85 INTERFACE ADAPTER

Product Model

- YX-2.92/1.85-JJG01
- YX-2.92/1.85-JKG01
- YX-2.92/1.85-KJG01
- YX-2.92/1.85-KKG01

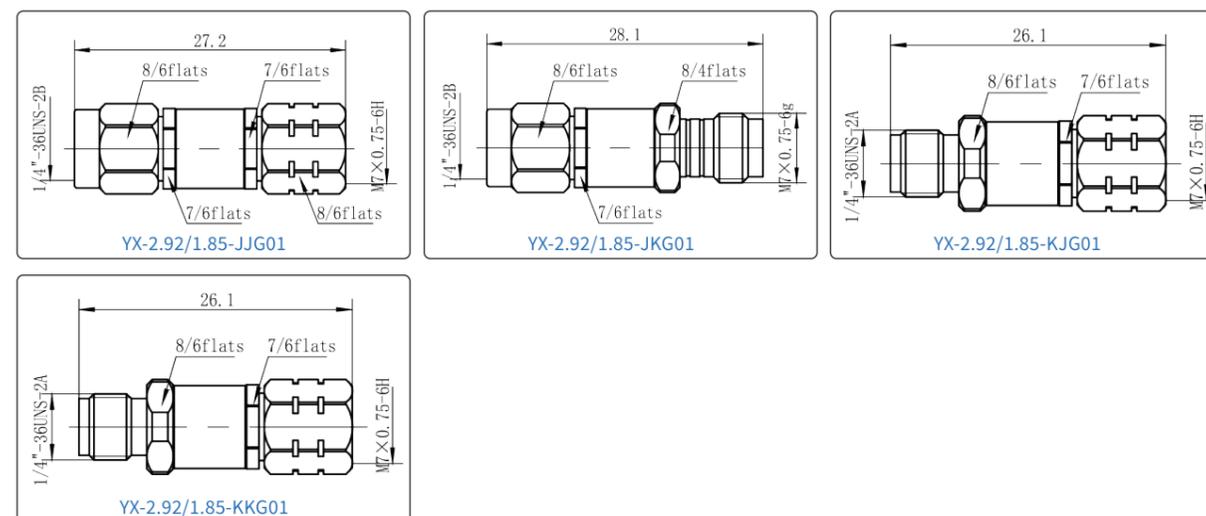
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-40GHz
VSWR	≤1.20
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



2.92/2.4 INTERFACE ADAPTER

Product Model

- YX-2.92/2.4-JJG01
- YX-2.92/2.4-JKG01
- YX-2.92/2.4-KJG01
- YX-2.92/2.4-KKG01

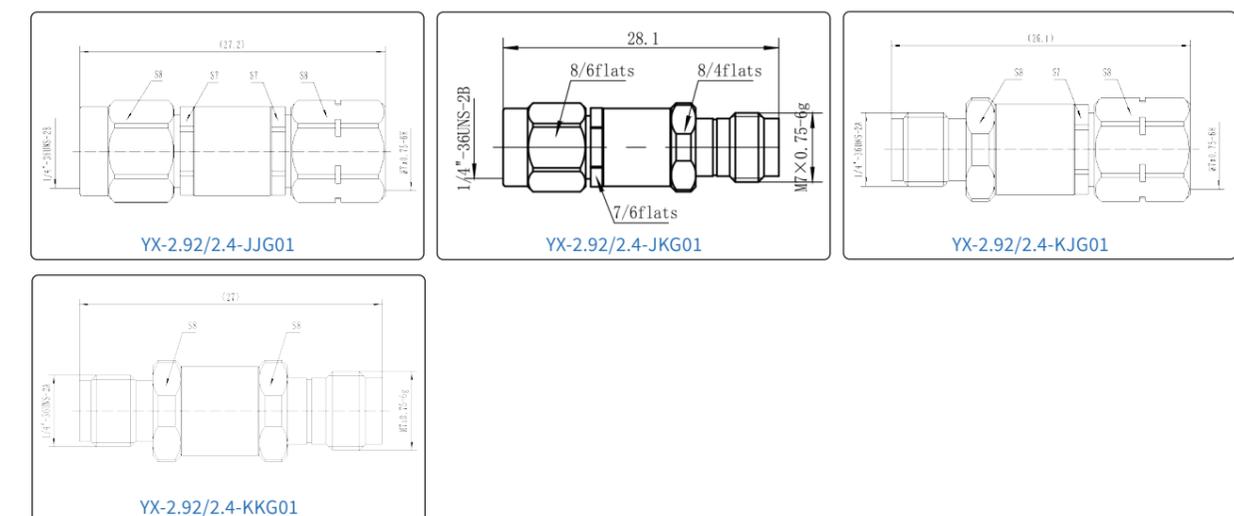
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-40GHz
VSWR	≤1.20
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



2.92/SMP INTERFACE ADAPTER

Product Model

- YX-2.92/SMP-JJG01
- YX-2.92/SMP-JKG01
- YX-2.92/SMP-KJG01
- YX-2.92/SMP-KKG01

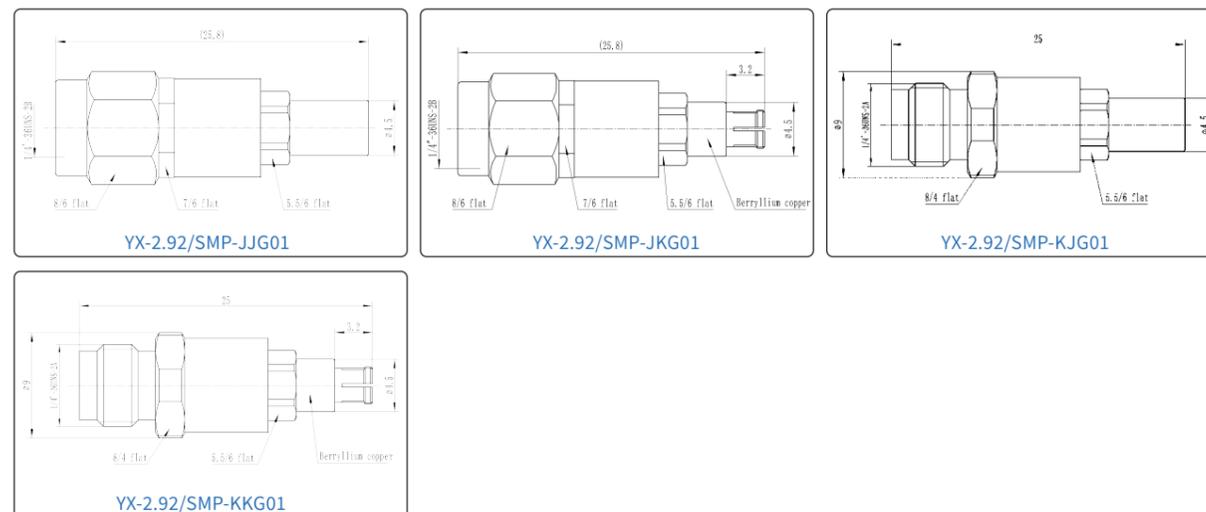
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000/PTFE
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-40GHz
VSWR	≤1.30
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



2.92/SSMA INTERFACE ADAPTER

Product Model

- YX-2.92/SSMA-JJG01
- YX-2.92/SSMA-JKG01
- YX-2.92/SSMA-KJG01
- YX-2.92/SSMA-KKG01

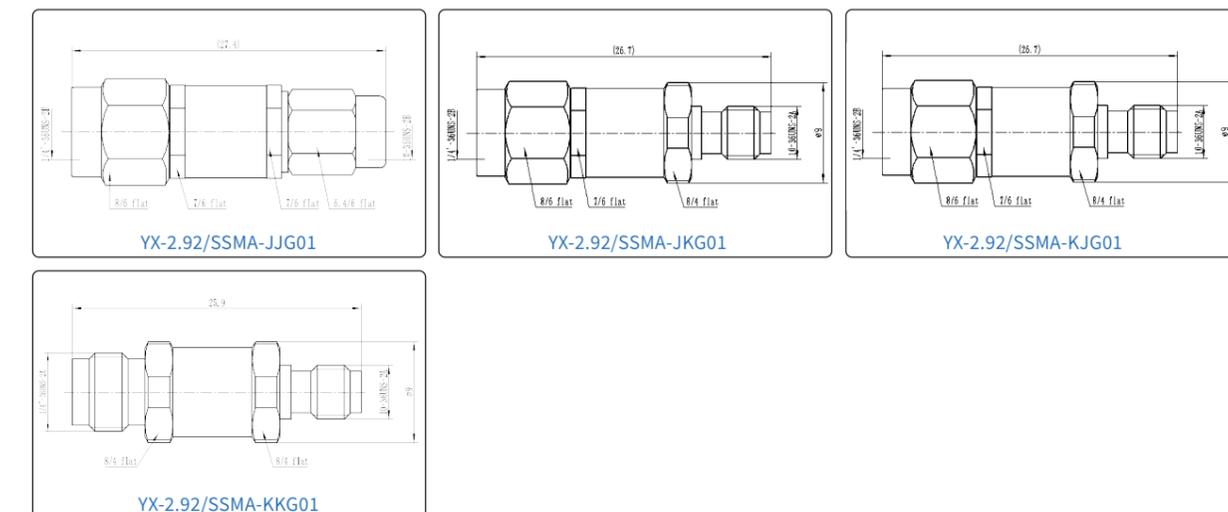
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-40GHz
VSWR	≤1.25
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



2.92/SSMP INTERFACE ADAPTER

Product Model

- YX-2.92/SSMP-JJG01
- YX-2.92/SSMP-JKG01
- YX-2.92/SSMP-KJG01
- YX-2.92/SSMP-KKG01

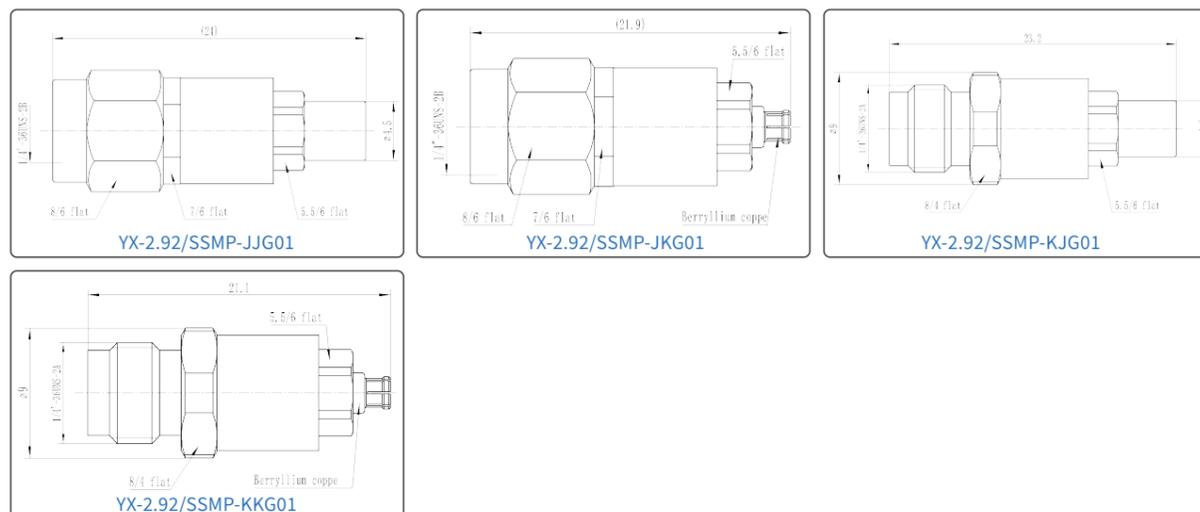
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-40GHz
VSWR	≤1.30
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



3.5 INTERFACE ADAPTER

Product Model

- YX-3.5-JJG01
- YX-3.5-JKG01
- YX-3.5-KKG01
- YX-3.5-KYG01

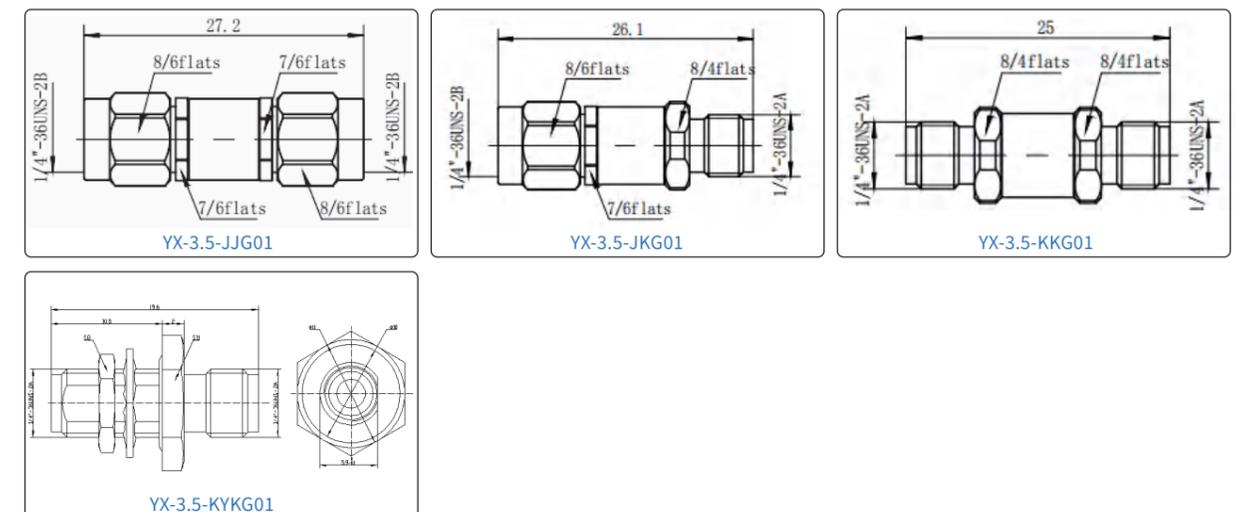
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-26.5GHz
VSWR	≤1.15
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



3.5/2.4 INTERFACE ADAPTER

Product Model

- YX-3.5/2.4-JJG01
- YX-3.5/2.4-JKG01
- YX-3.5/2.4-KJG01
- YX-3.5/2.4-KKG01

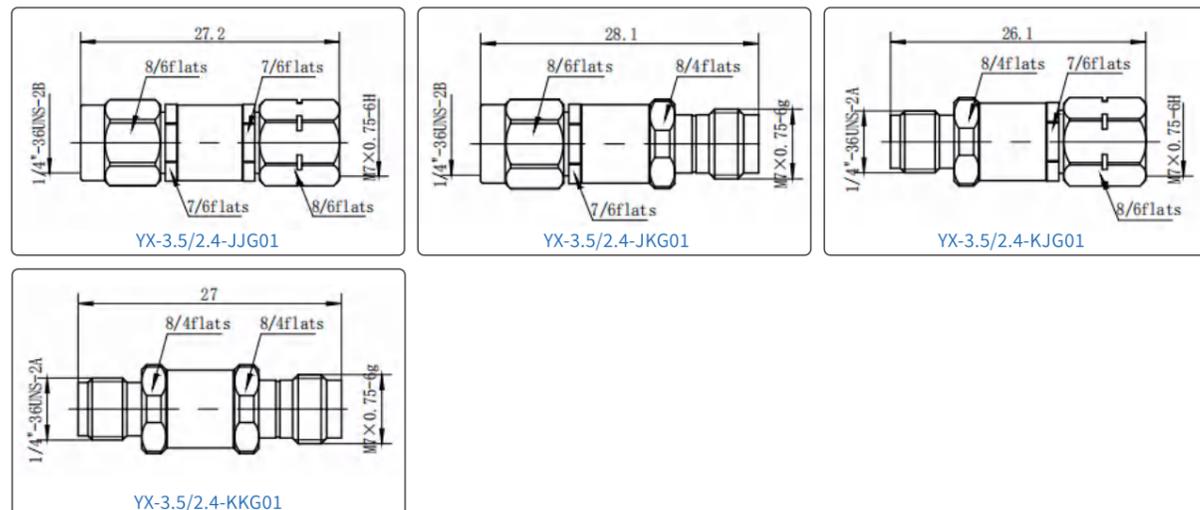
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-26.5GHz
VSWR	≤1.15
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



3.5/2.92 INTERFACE ADAPTER

Product Model

- YX-3.5/2.92-JJG01
- YX-3.5/2.92-JKG01
- YX-3.5/2.92-KJG01
- YX-3.5/2.92-KKG01

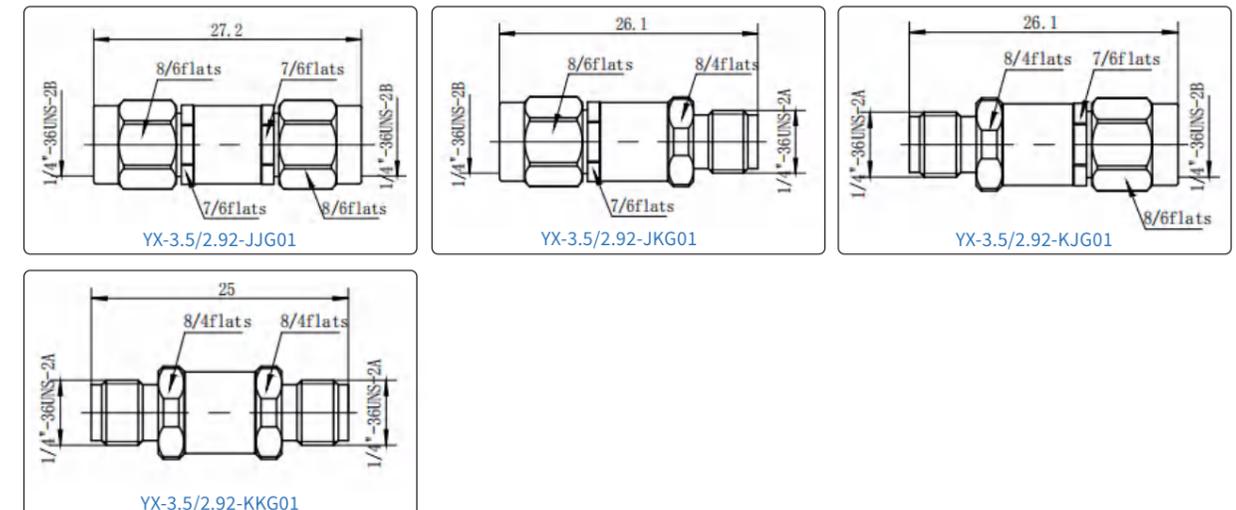
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-26.5GHz
VSWR	≤1.15
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



3.5/BMA INTERFACE ADAPTER

Product Model

- YX-3.5/BMA-JJG01
- YX-3.5/BMA-JKG01
- YX-3.5/BMA-KJG01
- YX-3.5/BMA-KKG01

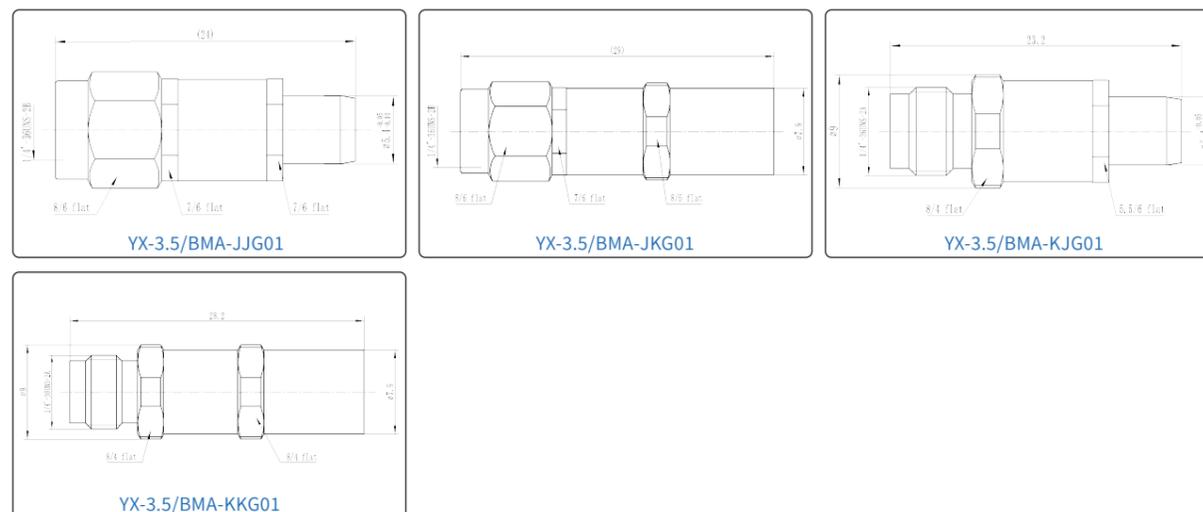
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-18GHz
VSWR	≤1.20
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



3.5/SMP INTERFACE ADAPTER

Product Model

- YX-3.5/SMP-JJG01
- YX-3.5/SMP-JKG01
- YX-3.5/SMP-KJG01
- YX-3.5/SMP-KKG01

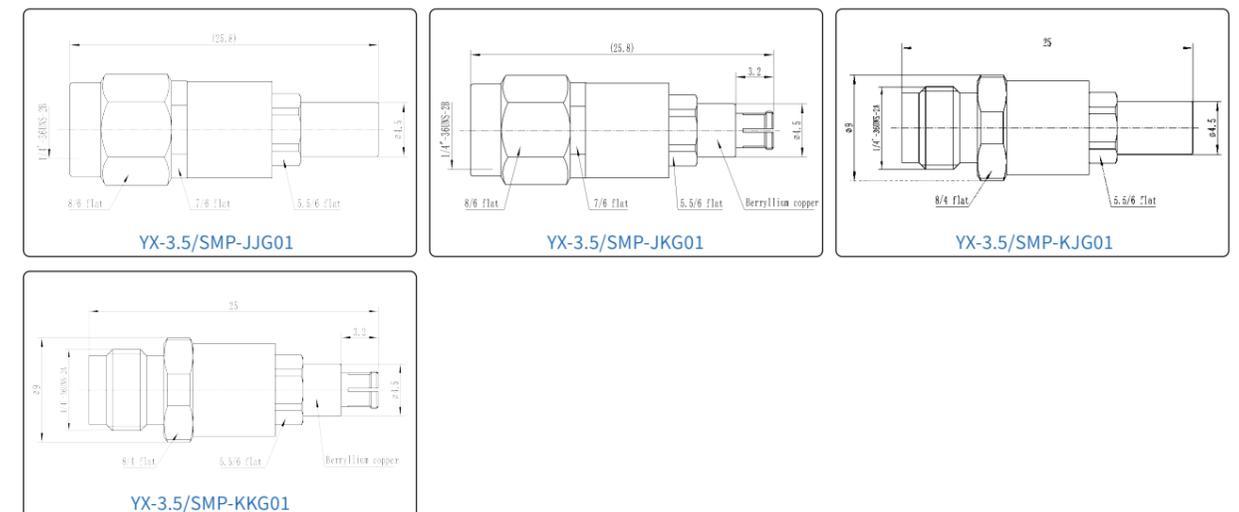
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000/PTFE
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-26.5GHz
VSWR	≤1.20
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



N INTERFACE ADAPTER

Product Model

- YX-N-JJG01
- YX-N-JWKG01
- YX-N-KJG01
- YX-N-KKG01

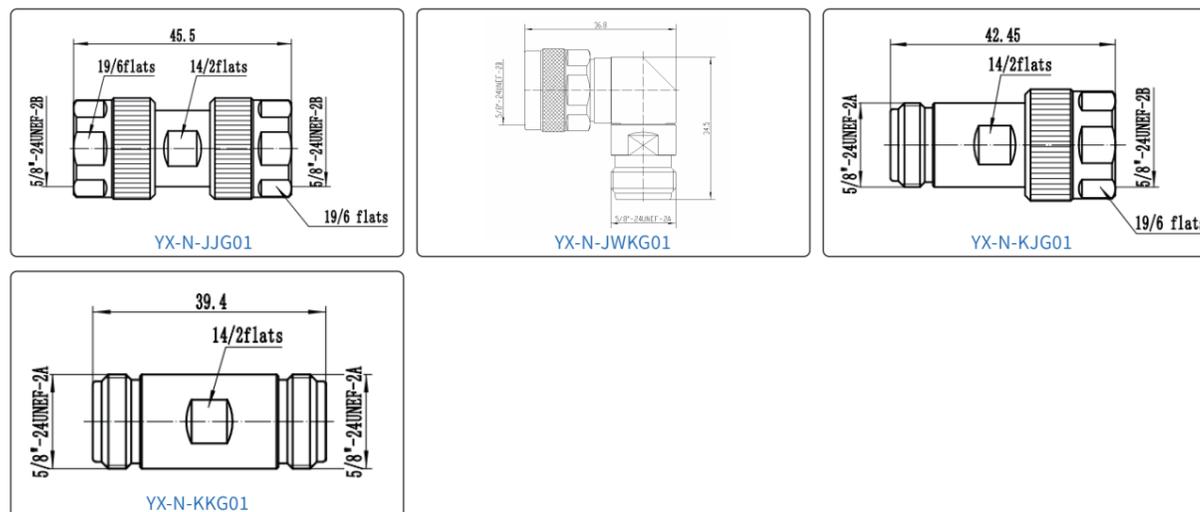
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-18GHz
VSWR	≤1.20
Impedance	50Ω
Dielectric withstand voltage	1500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



N/2.92 INTERFACE ADAPTER

Product Model

- YX-N/2.92-JJG01
- YX-N/2.92-JKG01
- YX-N/2.92-KJG01
- YX-N/2.92-KKG01

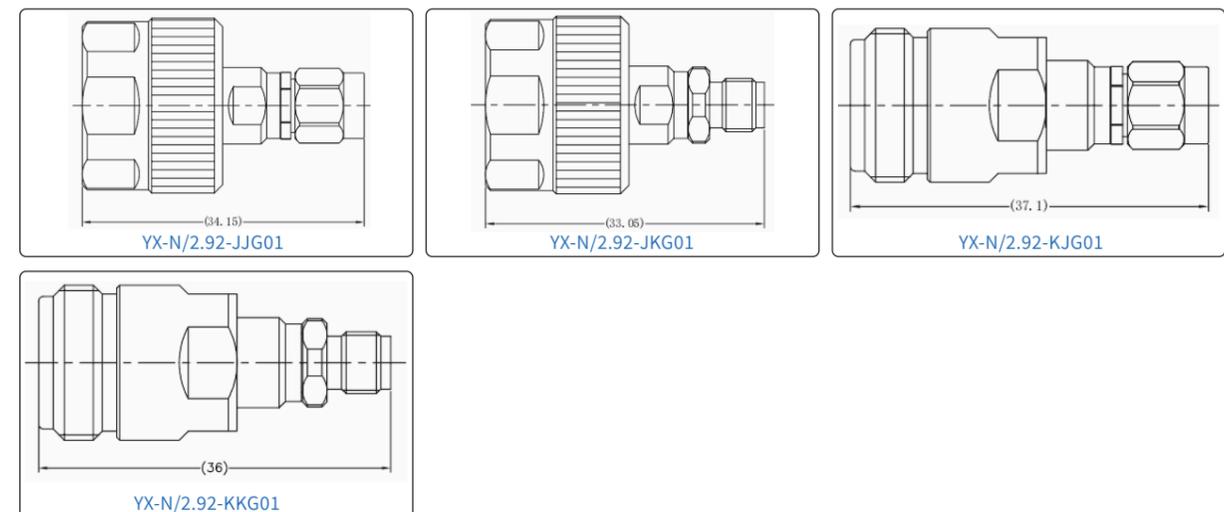
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-18GHz
VSWR	≤1.15
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



N/3.5 INTERFACE ADAPTER

Product Model

- YX-N/3.5-JJG01
- YX-N/3.5-JKG01
- YX-N/3.5-KFKG01
- YX-N/3.5-KJG01
- YX-N/3.5-KKG01
- YX-N/3.5-KYKG01

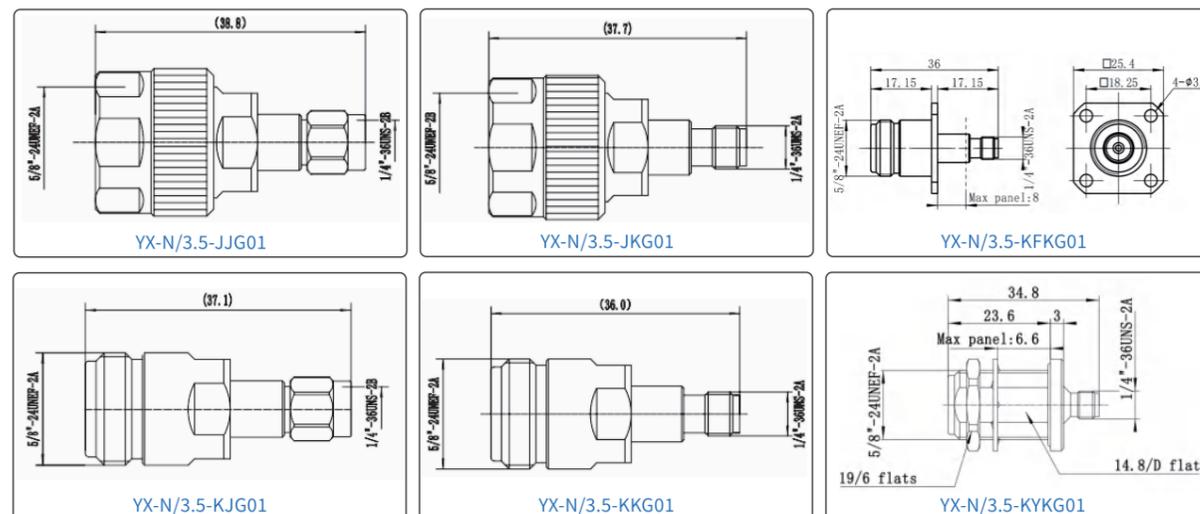
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-18GHz
VSWR	≤1.15
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



N/SMA INTERFACE ADAPTER

Product Model

- YX-N/SMA-JJG01
- YX-N/SMA-JKG01
- YX-N/SMA-KFKG01
- YX-N/SMA-KJG01
- YX-N/SMA-KKG01
- YX-N/SMA-KYKG01

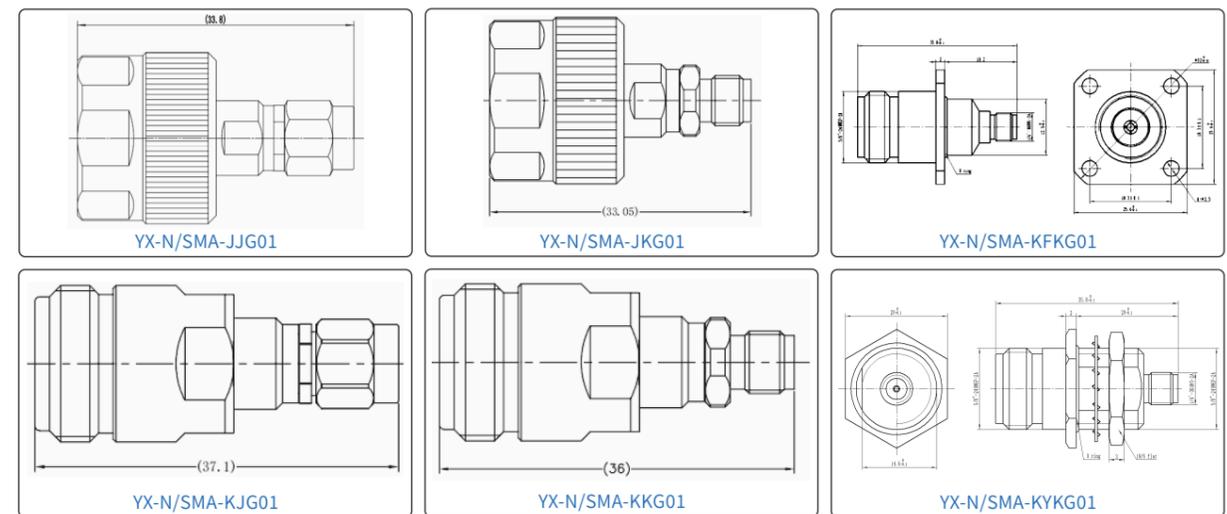
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PEI1000/PTFE
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-18GHz
VSWR	≤1.15
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



Product Model

- YX-SMA-JJG01
- YX-SMA-JKG01
- YX-SMA-KFKG01
- YX-SMA-KKG01

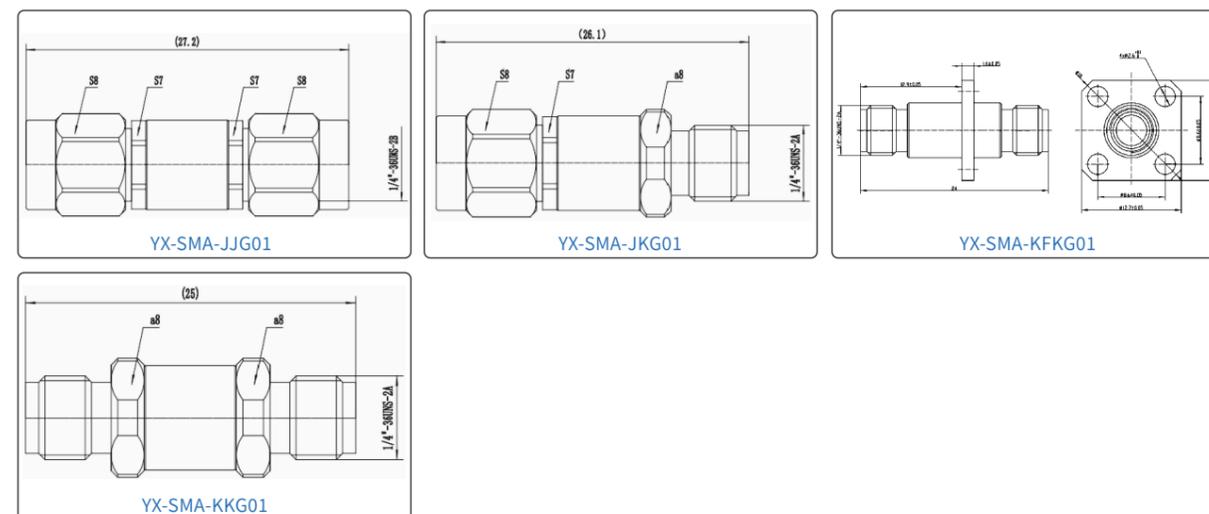
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PTFE/PEI
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-26.5GHz
VSWR	≤1.15
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



Product Model

- YX-SMA-KFKG02

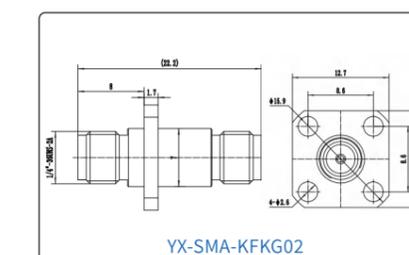
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PTFE
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-18GHz
VSWR	≤1.15
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



SMA/SMP INTERFACE ADAPTER

Product Model

- YX-SMA/SMP-JJG01
- YX-SMA/SMP-JKG01
- YX-SMA/SMP-KJG01
- YX-SMA/SMP-KKG01

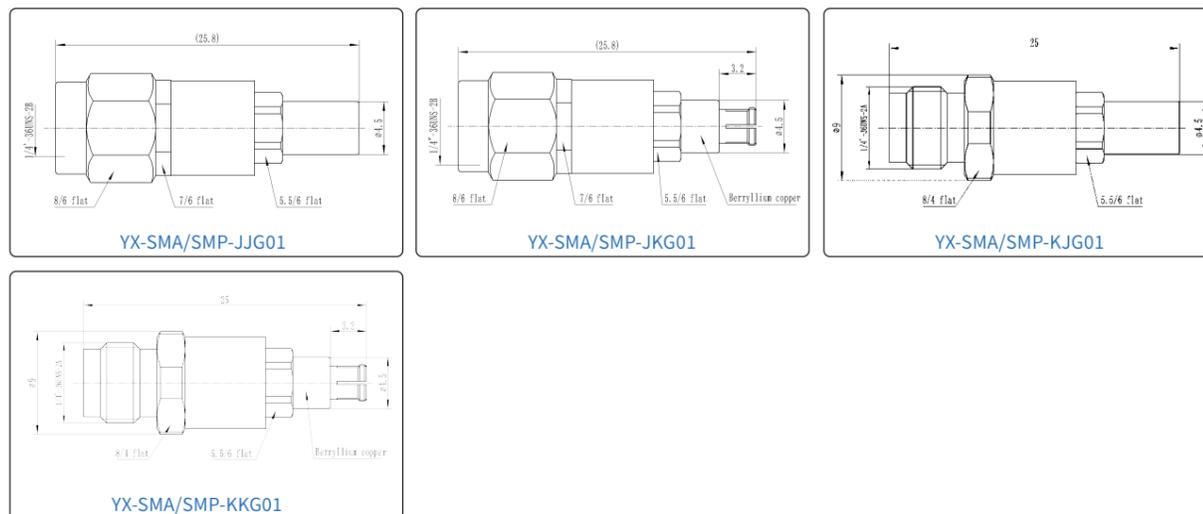
Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PTFE
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-18GHz
VSWR	≤1.25
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing



SMA/SSMA INTERFACE ADAPTER

Product Model

- YX-SMA/SSMA-JJG01
- YX-SMA/SSMA-JKG01
- YX-SMA/SSMA-KJG01
- YX-SMA/SSMA-KKG01

Structural Materials and Plating

Structure	Material and plating
Body	Stainless steel,Passivated
Dielectric	PTFE
Contact Pin	Beryllium copper,Gold plated

Electrical Specifications

Item	Specification
Operating frequency range	DC-26.5GHz
VSWR	≤1.25
Impedance	50Ω
Dielectric withstand voltage	500V rms
Insulation resistance	≥1000MΩ
Temperature range	-55°C to+125°C
Durability	≥500 cycles
RoHS	Compliant

Outline Drawing

