Wireless Infrastructure Products

RF Connectors, Lightning Protectors, Power divider & Combiners, Directional Couplers, Attenuators, and other Passive Components for 3G & 4G Mobile Communications







Over one-and-half decade of experience in interconnectivity manufacturing

YongJin Elecomm is a leading company in the industry to provide interconnection products for electrical and power connectivity with experience extending over 15years.

We take pride that YongJin has a lot of proven track records of delivering innovative solutions to the industrial market place for telecommunications, instrumentation, process control, mass transportation, factory automation, power applications, medical equipments, petro-chemical and so forth.

we are now offering a broad range of products that can be relied on to meet high quality standards,backup by flexible,dependable services with fast response time.

Our company houses over 100 employees, incorporating state-of-the art manufacturing technologies and this facility is ISO9001 & ISO14001 certified. Our manufacturing capabilities include state-of-the art CNC machining, diecasting, extruding, screw machining and process controls.

Capabilities for in-house testing include environmental stress test such as engagement /separation force evaluation,durability,humidity, thermal shock and salt spray as well as RF/Micro wave testing includes PIMD, return loss, insertion loss, power rating and other transmission line characteristics...

Products for Wireless Infrastructure solutions

Yongjin Elecomm offers a comprehensive product range of RF/Micro wave connectors, passive components and cable assemblies for wireless network solutions, such as GSM,W-CDMA,WiMAX,LTE,WLAN and radio link systems. Our interconnect solutions guarantee excellent electrical characteristics (e.g. low passive intermodulation and high- return loss) and are ideal for outdoor and indoor installation due to their outstanding mechanical and climatic characteristics.



☐ Head quarters & Factory



 $\ \square$ Assembling process



☐ Reliability Test Equipments



□ CNC machining line







Contents

- 6~15 RF Connectors
 - -Connectors for Corrugated Cables
 - -Connectors for Braided Cables
- 16~17 Lightning Protectors
 - -Gas tube surge arrestors
 - -Quarter Wave surge arrestors
- 18~19 Cable Assemblies
 - -Assemblies for corrugated cables
 - -Custom RF cable assemblies
- 20~23 Power divider/ combiners
- 24~25 Power splitters
- 26~27 Directional Couplers
- 28 Attenuators & Terminations
- 29 Connector Adapters & Cable trimming tools
- 30 Conversion Table



☐ PIMD measuring equipment



☐ Environmental test lab





Products Spectrum - Wireless Solutions

RF Coaxial Connectors

page 6~15



Lightning Protectors

page16~17



Cable Assemblies

page18~19



Power Divider /Combiners

page20~23











Power Splitters

page24~25



Directional Couplers

page 26~27



Attenuators & Terminations

page 28



Connector Adapters & Cable Trimming tools

page 29





RF Connectors for Corrugated Cables

UMTS, W-CDMA

3G & 4G

Qualified SPEED-FIT™ CONNECTORS

YongJin Elecomm offers an extensive line of connectors for Copper Corrugated Antenna feeder cables from 1/4" to 1 5/8". With many interfaces and attachment styles available, all connectors are designed to guarantee excellent electrical characteristics and long term reliability.

Connector Series N

The N type connector is one of the most common RF connector types for 50 ohms impedance cables. YongJin Type N connectors are designed to have self-flaring mechanism to allow the attachment to be highly resistant to pull off and twist off. The new Speed-FIT $^{\text{TM}}$ connector with N interface is available to deliver optimum performance, while ensuring ease of installation.

Connector Series 7-16DIN

The 7-16DIN connector is designed to have the most rugged RF connection for use in all the cases where a robust and precision connections are required. The new Speed-FIT™ connector with 7-16DIN interface is available to deliver optimum performance, while ensuring ease of installation.

Connector Series EIA

The EIA system has a hermaphrodite connectors which means that the two connector parts are identical and a coupling element is necessary for the connection. EIA connectors are available in sizes from 7/8"upto 3 1/8"



New Speed-Fit™ connectors ensure fast and labor saving installation while maintaining high performance and attachment consistency.

- Use a simple technique for easy installation
- Performance is excellent and reliable
- Completely tested and proven



Cable Compatibility

Super-Flexible Copper-Corrugated Cable



Acome HPL50 ¼,3/8,1/2 SF,Andrew FSJ ¼,3/8,1/2 50A Leoni Flexline ¼,3/8,1/2 S, LS(LG) HFSC 3/8,1/2 NK RFF ¼,3/8,1/2 and etc

Regular-Flexible Copper-Corrugated Cable



Acome HPL50 1/2,7/8,1-1/4,1-5/8 F Andrew LDF 3/8,1/2, 7/8, 1-1/4,1-5/8 50A Celflex LCF 3/8,1/2,7/8,1-1/4, 1-5/8 Leoni Flexline 3/8,1/2, 7/8,1-1/4,1-5/8 R, LS(LG) HFC 1/2, 7/8,1-1/4, 1-5/8 NK RF 3/8,1/2,7/8,1-1/4, 1-5/8 and etc.



for 3/8" Superflexible Foam Dielectric Cable

CODE FOR YJ CONNECTORS

CONNECTOR TYPE	PRODUCT CODE
N-male	S10NMP
N-female	S10NFP
N-Right Angle male	S10NRP
7-16DIN male	S10DMP
7-16DIN female	S10DFP
7-16DIN Right Angle male	S10DRP



S10DFP

GENERAL SPECIFICATION

	S10NMP S10NRP	S10NFP -	S10DMP S10DRP	S10DFP -
Cable Type¹	3/8" Superflex	3/8" Superflex	3/8"Superflex	3/8" Superflex
Connector type	N-male	N-female	7-16DIN male	7-16DIN female
Electrical				
Frequency range	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz
Nom. Impedance	50ohm	50ohm	50ohm	50ohm
VSWR/ Return Loss				
0.0~1.0GHz	1.036/-35dB	1.036/-35dB	1.036/-35dB	1.036/-35dB
1.0~2.7GHz	1.065/-30dB	1.065/-30dB	1.065/-30dB	1.065/-30dB
3 rd Order IM Product @ 2 x 20Watts	< -160dBc	< -160dBc	< -160dBc	< -160dBc
Materials / Environmen	tal			
Center contact	Brass	BeCu	Brass	BeCu
Outer contact	Brass	Brass	Brass	Brass
Insulation	PTFE	PTFE	PTFE	PTFE
Gasket	Silicone rubber	Silicone rubber	Silicone rubber	Silicone rubber
Plating Outer/ Inner	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,
Other metal parts	Bright nickel	Bright nickel	Bright nickel	Bright nickel
Waterproof level	IP66 & IP 68	IP66 & IP68	IP66 & IP68	IP66 & IP68
Operating temp	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 85℃
¹ Cable compatibility Acome HPL 50-3/8SF. Andrew FSJ2-50. Leoni FlexLine 3/8" S				

Cable compatibility

Acome HPL 50-3/8SF, Andrew FSJ2-50, Leoni FlexLine 3/8" S
LS Cable HFC10D, NK Cable RFF 3/8"-50, RFS Cellflex SCF 38-50J

[†] All specifications and pictures of products are typical and are subject to change without notice.



for ½" Superflexible Foam Dielectric Cable

CODE FOR YJ CONNECTORS

ONNECTOR TYPE	PRODUCT CODE
N-male	S12NMP
N-female	S12NFP
N-Right Angle male	S12NRP
7-16DIN male	S12DMP
7-16DIN female	S12DFP
7-16DIN Right Angle male	S12DRP



S12NMP

GENERAL SPECIFICATION

		S12NMP S12NRP	S12NFP -	S12DMP S12DRP	S12DFP -
Cable Typ	pe¹	1/2" Superflex	1/2" Superflex	1/2" Superflex	1/2" Superflex
Connecto	or type	N-male	N-female	7-16DIN male	7-16DIN female
Electrica	I				
Frequenc	y range	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz
Nom. Imp	edance	50ohm	50ohm	50ohm	50ohm
VSWR/R	eturn Loss				
0.0~1.0G	Hz	1.036/-35dB	1.036/-35dB	1.036/-35dB	1.036/-35dB
1.0~2.7G	Hz	1.065/-30dB	1.065/-30dB	1.065/-30dB	1.065/-30dB
3 rd Order @ 2 x 20	IM Product Watts	< -160dBc	< -160dBc	< -160dBc	< -160dBc
Materials	/ Environmer	ntal			
Center co	ontact	Brass	BeCu	Brass	BeCu
Outer cor	ntact	Brass	Brass	Brass	Brass
Insulation	ı	PTFE	PTFE	PTFE	PTFE
Gasket		Silicone rubber	Silicone rubber	Silicone rubber	Silicone rubber
Plating	Outer/ Inner	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,
Othe	er metal parts	Bright nickel	Bright nickel	Bright nickel	Bright nickel
Waterpro	of level	IP66 & IP 68	IP66 & IP68	IP66 & IP68	IP66 & IP68
Operating	g temp.	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 85℃

¹ Cable compatibility

Acome HPL 50-1/2" SF., Andrew FSJ4-50B, Eupen 5092, Leoni FlexLine ½"S LS Cable HFSC12D, NK Cable RFF ½"-50, RFS Cellflex SCF 12-50J

[†] All specifications and pictures of products are typical and are subject to change without notice.



for 1/2" Flexible Foam Dielectric Cable

CODE FOR YJ CONNECTORS

CONNECTOR TYPE	PRODUCT CODE
N-male	A12NMP
N-female	A12NFP
N-Right Angle male	A12NRP
7-16DIN male	A12DMP
7-16DIN female	A12DFP
7-16DIN Right Angle male	A12DRP



GENERAL SPECIFICATION

	A12NMP A12NRP	A12NFP -	A12DMP A12DRP	A12DFP -		
Cable Type¹	1/2" flex	1/2" flex	1/2" flex	1/2" flex		
Connector type	N-male	N-female	7-16DIN male	7-16DIN female		
Electrical	Electrical					
Frequency range	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz		
Nom. Impedance	50ohm	50ohm	50ohm	50ohm		
VSWR/ Return Loss						
0.0~1.0GHz	1.036/-35dB	1.036/-35dB	1.036/-35dB	1.036/-35dB		
1.0~2.7GHz	1.065/-30dB	1.065/-30dB	1.065/-30dB	1.065/-30dB		
3 rd Order IM Product @ 2 x 20Watts	< -160dBc	< -160dBc	< -160dBc	< -160dBc		
Materials / Environmen	tal					
Center contact	Brass	BeCu	Brass	BeCu		
Outer contact	Brass	Brass	Brass	Brass		
Insulation	PTFE	PTFE	PTFE	PTFE		
Gasket	Silicone rubber	Silicone rubber	Silicone rubber	Silicone rubber		
Plating Outer/ Inner	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,		
Other metal parts	Bright nickel	Bright nickel	Bright nickel	Bright nickel		
Waterproof level	IP66 & IP 68	IP66 & IP68	IP66 & IP68	IP66 & IP68		
Operating temp.	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 85℃		
¹ Cable compatibility	Acome HPL 50)-1/2" flex., Andrew L	DF4-50, Eupen 5128,	, Leoni FlexLine ½"R		

¹ Cable compatibility Acome HPL 50-1/2" flex., Andrew LDF4-50, Eupen 5128, Leoni FlexLine ½"R LS Cable HFC12D, NK Cable RF ½"-50, RFS Cellflex LCF ½"Cu2Y

[†] All specifications and pictures of products are typical and are subject to change without notice.



for 7/8" Flexible Foam Dielectric Cable

CODE FOR YJ CONNECTORS

CONNECTOR TYPE	PRODUCT CODE
N-male	A22NMP
N-female	A22NFP
7-16DIN male	A22DMP
7-16DIN female	A22DFP



GENERAL SPECIFICATION

	A22NMP	A22NFP	A22DMP	A22DFP
Cable Type¹	7/8" flex	7/8" flex	7/8" flex	7/8" flex
Connector type	N-male	N-female	7-16DIN male	7-16DIN female
Electrical	•			
Frequency range	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz
Nom. Impedance	50ohm	50ohm	50ohm	50ohm
VSWR/ Return Loss				
0.0~1.0GHz	1.036/-35dB	1.036/-35dB	1.036/-35dB	1.036/-35dB
1.0~2.7GHz	1.065/-30dB	1.065/-30dB	1.065/-30dB	1.065/-30dB
3 rd Order IM Product @ 2 x 20Watts	< -160dBc	< -160dBc	< -160dBc	< -160dBc
Materials / Environmen	ital			
Center contact	Brass	BeCu	Brass	BeCu
Outer contact	Brass	Brass	Brass	Brass
Insulation	PTFE	PTFE	PTFE	PTFE
Gasket	Silicone rubber	Silicone rubber	Silicone rubber	Silicone rubber
Plating Outer/ Inner	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,
Other metal parts	Bright nickel	Bright nickel	Bright nickel	Bright nickel
Waterproof level	IP66 & IP 68	IP66 & IP68	IP66 & IP68	IP66 & IP68
Operating temp.	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 85℃
Cable compatibility Acome HPL 50-7/8" flex., Andrew LDF5-50, Eupen 5228, Leoni FlexLine 7/8"R LS Cable HFC22D, NK Cable RF 7/8"-50, RFS Cellflex LCF 7/8"Cu2Y				

LS Cable HFC22D, NK Cable RF 7/8"-50, RFS Cellflex LCF 7/8"Cu2Y

[†] All specifications and pictures of products are typical and are subject to change without notice.



for 1 1/4" Flexible Foam Dielectric Cable

CODE FOR YJ CONNECTORS

CONNECTOR TYPE	PRODUCT CODE
N-male	A33NMP
N-female	A33NFP
7-16DIN male	A33DMP
7-16DIN female	A33DFP



GENERAL SPECIFICATION

	A33NMP	A33NFP	A33DMP	A33DFP	
Cable Type ¹	1 1/4" flex	1 1/4" flex	1 1/4" flex	1 1/4" flex	
Connector type	N-male	N-female	7-16DIN male	7-16DIN female	
Electrical	Electrical				
Frequency range	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz	
Nom. Impedance	50ohm	50ohm	50ohm	50ohm	
VSWR/ Return Loss					
0.0~1.0GHz	1.036/-35dB	1.036/-35dB	1.036/-35dB	1.036/-35dB	
1.0~2.7GHz	1.065/-30dB	1.065/-30dB	1.065/-30dB	1.065/-30dB	
3 rd Order IM Product @ 2 x 20Watts	< -160dBc	< -160dBc	< -160dBc	< -160dBc	
Materials / Environmen	tal				
Center contact	Brass	BeCu	Brass	BeCu	
Outer contact	Brass	Brass	Brass	Brass	
Insulation	PTFE	PTFE	PTFE	PTFE	
Gasket	Silicone rubber	Silicone rubber	Silicone rubber	Silicone rubber	
Distance O to d					
Plating Outer/ Inner	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	
	•	•	•	•	
Inner	Silver,	Silver,	Silver,	Silver,	
Inner Other metal parts	Silver, Bright nickel	Silver, Bright nickel	Silver, Bright nickel	Silver, Bright nickel	

[†] All specifications and pictures of products are typical and are subject to change without notice.

LS Cable HFC33D, NK Cable RF 1 1/4"-50, RFS Cellflex LCF 1 1/4"Cu2Y



for 1 5/8" Flexible Foam Dielectric Cable

CODE FOR YJ CONNECTORS

CONNECTOR TYPE	PRODUCT CODE
N-male	A42NMP
N-female	A42NFP
7-16DIN male	A42DMP
7-16DIN female	A42DFP





GENERAL SPECIFICATION

	A42NMP	A42NFP	A42DMP	A42DFP
Cable Type¹	1 5/8" flex	1 5/8" flex	1 5/8" flex	1 5/8" flex
Connector type	N-male	N-female	7-16DIN male	7-16DIN female
Electrical	•			
Frequency range	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz	DC~2.7GHz
Nom. Impedance	50ohm	50ohm	50ohm	50ohm
VSWR/ Return Loss				
0.0~1.0GHz	1.036/-35dB	1.036/-35dB	1.036/-35dB	1.036/-35dB
1.0~2.7GHz	1.065/-30dB	1.065/-30dB	1.065/-30dB	1.065/-30dB
3 rd Order IM Product @ 2 x 20Watts	< -160dBc	< -160dBc	< -160dBc	< -160dBc
Materials / Environmen	tal			
Center contact	Brass	BeCu	Brass	BeCu
Outer contact	Brass	Brass	Brass	Brass
Insulation	PTFE	PTFE	PTFE	PTFE
Gasket	Silicone rubber	Silicone rubber	Silicone rubber	Silicone rubber
Plating Outer/ Inner	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,	Tri-Alloy/ Silver,
Other metal parts	Bright nickel	Bright nickel	Bright nickel	Bright nickel
Waterproof level	IP66 & IP 68	IP66 & IP68	IP66 & IP68	IP66 & IP68
Operating temp.	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 85℃	-40℃ to 85℃
¹ Cable compatibility Acome HPL 50-1 5/8" flex., Andrew LDF7-50, Eupen 5438, Leoni FlexLine 1 5/8"R LS Cable HFC42D, NK Cable RF 1 5/8"-50, RFS Cellflex LCF 1 5/8"Cu2Y				

[†] All specifications and pictures of products are typical and are subject to change without notice.



RF Connectors for Braided Cables

YongJin Elecomm offers a full complement of RF coaxial connectors from SMA used on cellular subscriber units to low intermodulation . 7-16DIN connectors used on cellular base stations. Designed to accommodate a large variety of RG and Industry standard cables, these connectors are available in solder-crimp, solder-clamp, captive-crimp, captive-clamp and other cable attachment styles. These connectors are widely used in the cellular / mobile communication industry for equipment cabling and antenna interfaces.



Types of RF Connectors for Braided cables



N connectors



TNC connectors



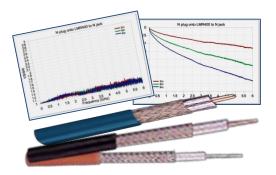
7-16DIN connectors



BNC connectors



SMA connectors

















Cable	Connector type	Product Code ★Cable Attachment notes: 1) Inner / 2) Outer, -001,002; Option Code:						
Туре		Solder / Crimp	Solder / Clamp	Captive / Crimp	Captive / Clamp			
	N male straight	NM195SCR-001	NM195SCL-001	NM195CCR-001	NM195CCL-001			
	N female straight	NF195SCR-001	NF195SCL-001	NF195CCR-001	NF195CCL-001			
195	N male right angle	NR195SCR-001	NR195SCL-001	NR195CCR-001	NR195CCL-001			
Series	TNC male straight	TNCM195SCR-001	TNCM195SCL-001	TNCM195CCR-001	TNCM195CCL-001			
	TNC female straight	TNCF195SCR-001	TNCF195SCL-001	TNCF195CCR-001	TNCF195CCL-001			
	TNC male right angle	TNCR195SCR-001	TNCR195SCL-001	TNCR195CCR-001	TNCR195CCL-001			
	N male straight	NM200SCR-001	NM200SCL-001	NM200CCR-001	NM200CCL-001			
	N female straight	NF200SCR-001	NF200SCL-001	NF200CCR-001	NF200CCL-001			
200 Series	N male right angle	NR200SCR-001	NR200SCL-001	NR200CCR-001	NR200CCL-001			
Series	TNC male straight	TNCM200SCR-001	TNCM200SCL-001	TNCM200CCR-001	TNCM200CCL-001			
	TNC female straight	TNCF200SCR-001	TNCF200SCL-001	TNCF200CCR-001	TNCF200CCL-001			
	TNC male right angle	TNCR200SCR-001	TNCR200SCL-001	TNCR200CCR-001	TNCR200CCL-001			
	N male straight	NM240SCR-001	NM240SCL-001	NM240CCR-001	NM240CCL-001			
	N female straight	NF240SCR-001	NF240SCL-001	NF240CCR-001	NF240CCL-001			
240	N male right angle	NR240SCR-001	NR240SCL-001	NR240CCR-001	NR240CCL-001			
Series	TNC male straight	TNCM240SCR-001	TNCM240SCL-001	TNCM240CCR-001	TNCM240CCL-001			
	TNC female straight	TNCF240SCR-001	TNCF240SCL-001	TNCF240CCR-001	TNCF240CCL-001			
	TNC male right angle	TNCR240SCR-001	TNCR240SCL-001	TNCR240CCR-001	TNCR240CCL-001			
	N male straight	NM300SCR-001	NM300SCL-001	NM300CCR-001	NM300CCL-001			
	N female straight	NF300SCR-001	NF300SCL-001	NF300CCR-001	NF300CCL-001			
	N male right angle	NR300SCR-001	NR300SCL-001	NR300CCR-001	NR300CCL-001			
300	TNC male straight	TNCM300SCR-001	TNCM300SCL-001	TNCM300CCR-001	TNCM300CCL-001			
Series	TNC female straight	TNCF300SCR-001	TNCF300SCL-001	TNCF300CCR-001	TNCF300CCL-001			
	TNC male right angle	TNCR300SCR-001	TNCR300SCL-001	TNCR300CCR-001	TNCR300CCL-001			
	7-16DINmale straight	DINM300SCR-001	DINM300SCL-001	DINM300CCR-001	DINM300CCL-001			
	7-16DINfemale straight	DINF300SCR-001	DINF300SCL-001	DINF300CCR-001	DINF300CCL-001			
	7-16DINmale right angle	DINR300SCR-001	DINR300SCL-001	DINR300CCR-001	DINR300CCL-001			
	N male straight	NM400SCR-001	NM400SCL-001	NM400CCR-001	NM400CCL-001			
	N female straight	NF400SCR-001	NF400SCL-001	NF400CCR-001	NF400CCL-001			
	N male right angle	NR400SCR-001	NR400SCL-001	NR400CCR-001	NR400CCL-001			
400	TNC male straight	TNCM400SCR-001	TNCM400SCL-001	TNCM400CCR-001	TNCM400CCL-001			
Series	TNC female straight	TNCF400SCR-001	TNCF400SCL-001	TNC400CCR-001	TNCF400CCL-001			
	TNC male right angle	TNCR400SCR-001	TNCR400SCL-001	TNCR400CCR-001	TNCR400CCL-001			
	7-16DINmale straight	DINM400SCR-001	DINM400SCL-001	DINM400CCR-001	DINM400CCL-001			
	7-16DINfemale straight	DINF400SCR-001	DINF400SCL-001	DINF400CCR-001	DINF400CCL-001			
	7-16DINmale right angle	DINR400SCR-001	DINR400SCL-001	DINR400CCR-001	DINR400CCL-001			

For more details, please contact us through email or phone.















Cable Type	Connector type	Product Code ★Cable Attachment notes: 1) Inner / 2) Outer, -001,002; Option Code:							
Туре		Solder / Crimp	Solder / Clamp	Captive / Crimp	Captive / Clamp				
	SMA male straight	SMAM174SCR-001	SMAM174SCL-001						
RG174A/U	SMA female straight	SMAF174SCR-001	SMAF174SCL-001						
	SMA male right angle	SMAR174SCR-001	SMAR174SCL-001						
	BNC male straight	BNCM174SCR-001	BNCM174SCL-001						
	BNC female straight	BNCF174SCR-001	BNCF174SCL-001						
	BNC male right angle	BNCR174SCR-001	BNCR174SCL-001						
	SMA male straight	SMAM058SCR-001	SMAM058SCL-001						
	SMA female straight	SMAF058SCR-001	SMAF058SCL-001						
RG58C/U	SMA male right angle	SMAR058SCR-001	SMAR058SCL-001						
	BNC male straight	BNCM058SCR-001	BNCM058SCL-001						
	BNC female straight	BNCF058SCR-001	BNCF058SCL-001						
	BNC male right angle	BNCR058SCR-001	BNCR058SCL-001						
	N male straight	NM223SCR-001	NM223SCL-001	NM223CCR-001	NM223CCL-001				
	N female straight	NF223SCR-001	NF223SCL-001	NF223CCR-001	NF223CCL-001				
RG223/U	N male right angle	NR223SCR-001	NR223SCL-001	NR223CCR-001	NR223CCL-001				
KG223/U	TNC male straight	TNCM223SCR-001	TNCM223SCL-001	TNCM223CCR-001	TNCM223CCL-001				
	TNC female straight	TNCF223SCR-001	TNCF223SCL-001	TNCF223CCR-001	TNCF223CCL-001				
	TNC male right angle	TNCR223SCR-001	TNCR223SCL-001	TNCR223CCR-001	TNCR223CCL-001				
	N male straight	NM213SCR-001	NM213SCL-001	NM213CCR-001	NM213CCL-001				
	N female straight	NF213SCR-001	NF213SCL-001	NF213CCR-001	NF213CCL-001				
	N male right angle	NR213SCR-001	NR213SCL-001	NR213CCR-001	NR213CCL-001				
	TNC male straight	TNCM213SCR-001	TNCM213SCL-001	TNCM213CCR-001	TNCM213CCL-001				
RG213/U	TNC female straight	TNCF213SCR-001	TNCF213SCL-001	TNCF213CCR-001	TNCF213CCL-001				
	TNC male right angle	TNCR213SCR-001	TNCR213SCL-001	TNCR213CCR-001	TNCR213CCL-001				
	7-16DINmale straight	DINM213SCR-001	DINM213SCL-001	DINM213CCR-001	DINM213CCL-001				
	7-16DIN female straight	DINF213SCR-001	DINF213SCL-001	DINF213CCR-001	DINF213CCL-001				
	7-16DINmale right angle	DINR213SCR-001	DINR213SCL-001	DINR213CCR-001	DINR213CCL-001				
	N male straight	NM214SCR-001	NM214SCL-001	NM214CCR-001	NM214CCL-001				
	N female straight	NF214SCR-001	NF214SCL-001	NF214CCR-001	NF214CCL-001				
	N male right angle	NR214SCR-001	NR214SCL-001	NR214CCR-001	NR214CCL-001				
	TNC male straight	TNCM214SCR-001	TNCM214SCL-001	TNCM214CCR-001	TNCM214CCL-001				
RG214/U	TNC female straight	TNCF214SCR-001	TNCF214SCL-001	TNCF214CCR-001	TNCF214CCL-001				
	TNC male right angle	TNCR214SCR-001	TNCR214SCL-001	TNCR214CCR-001	TNCR214CCL-001				
	7-16DINmale straight	DINM214SCR-001	DINM214SCL-001	DINM214CCR-001	DINM214CCL-001				
	7-16DINfemale straight	DINF214SCR-001	DINF214SCL-001	DINF214CCR-001	DINF214CCL-001				
	7-16DINmale right angle	DINR214SCR-001	DINR214SCL-001	DINR214CCR-001	DINR214CCL-001				

For more details, please contact us through email or phone.



Lightning Protectors

The lightning protection of base stations is very important for critical sensitive equipments. YongJin offers a complete series of lightning protectors using coaxial technology for N type and 7-16DIN connector systems, including $\lambda/4$ shorting stub and gas-tube surge arrestors. These products deliver high levels of lightning protection and optimize system RF performance.

Gas-tube surge arrestors

Gas tube surge arrestor is based on the gas discharge principle. This type protector can be used for broadband applications up to 2.7GHz.. The gas capsules are replaceable and can be ordered separately.

- Broadband performance from 0~2700MHz
- Low VSWR up to 2700MHz
- Field replaceable gas discharge tube
- DC pass capability



AG-NFNF Series

AG-DFDF Series

General Specifications

RF Performance

Туре	N type	7-16DIN		
Nom. Impedance	50ohm			
Frequency range	DC to 2.7GHz	DC to 2.7GHz		
Insertion Loss	≤0.1dB	≤0.1dB		
Return Loss	≥20 dB	≥20 dB		
Temperature range	-45℃ to 85℃	-45℃ to 85℃		

Surge Protection

Voltage Code	09	15	23	35	47	60	80
DC Sparkover Voltage	90V	145V	230V	350V	470V	600V	800V
Current handling capability @8/20#	10KA						
Max.RF watts	35	95	240	550	1000	1500	1900

Surge Arrestors Numbering System

Surge Arrestor Type	Interface Type	Product Code	Remarks
	Bulkhead N female & N male	AG-NMNFB-(*)	* Voltage Code; Insert
Gas-tube surge arrestor	Bulkhead N female & N female	AG-NFNFB-(*)	voltage code from surge performance table
	Bulkhead 7-16 female & 7-16 male	AG-DMDFB-(*)	ex) AG-NMNFB-09 ; with gas tube 90V
	Bulkhead 7-16 female & 7-16 female	AG-DFDFB-(*)	, mai gas tabe ou

[†] Custom configurations with special connector interface and spark voltages are readily available on request.

[‡] All specifications and pictures of products are typical and are subject to change without notice.



Quarter wave shorting stub surge arrestors

The quarter wave shorting stub acts as band pass filter, allowing only a specified frequency range to pass. Since quarter wave arrestors are frequency specific, they exhibit low VSWR and low insertion loss. The shorting stub provides high operating power capability and multiple lightning strokes, however, cannot be used in applications that require a DC bias.



- Outstanding RF performance
- Provide multiple strike capability
- Fully weatherproof
- Maintenance Free Operation
- Available with Type N or 7-16DIN interfaces







AT-NMNF Series

AT-NFDFB Series

AT-DMDF Series



Туре	N type	7-16 DIN	
Nom. Impedance	500	hm	
Frequency range	0.8GHz to 2.7GHz	0.8GHz to 2.7GHz	
Insertion Loss	≤0.1dB	≤0.1dB	
VSWR,max	1.2	1.2	
Current handling capability @8/20#S	50KA	100KA	
Residual pulse energy @4kv 1.2/50#s	10V	10V	

Surge Arrestors Numbering System

Surge Arrestor Type	Interface Type	Product Code		
	Bulkhead N female & N male	AT-NMNFB		
Quarter-wave Surge arrestor	Bulkhead N female & N female	AT-NFNFB		
	Bulkhead 7-16 female & 7-16male	AT-DMDFB		
	Bulkhead 7-16 female & 7-16 female	AT-DFDFB		
	Bulkhead 7-16 female & N female	AT-NFDFB		

[†] Custom configurations with special connector interface and frequency bands are readily available on request.

[‡] All specifications, pictures and availabilities of products are typical and are subject to change without notice.



Cable Assemblies

Cable assemblies are typically used to connect the feeder line to the transmission equipment or to the antenna in wireless communication applications. YongJin's cable assemblies are ideally suited for applications requiring durability, small bending radius and low attenuation value. YongJin offers a wide selection of cable assemblies in sizes of 1/4",3/8" and 1/2". These cable assemblies are distinguished by the following features;

- Excellent VSWR values(100% sweep-tested upto 2.7GHz prior to shipping)
- Designed for outdoor applications under extreme climatic conditions
- Waterproof per IP68 water immersion testing
- Available in any cable length with a various connector combinations



General Specifications

Туре	1/4" Superflex	"Superflex 3/8"Superflex		1/2"Regular	
Impedance	50ohm	50ohm	50ohm	50ohm	
Freq. range	DC to 2.7GHz DC to 2.7GHz		DC to 2.7GHz	DC to 2.7GHz	
Connector type	N,N-R, 7-16DIN, 7-16DIN-R/A			N,N-R,7-16DIN, 7-16DIN-R/A	
Peak power	6KW	13KW	15KW	40KW	
Return Loss 0.03 to 1.0GHz 1.0 to 2.2GHz 2.2 to 2.7GHz	3 to 1.0GHz ≥30dB to 2.2GHz ≥28dB		≥30dB ≥28dB ≥26dB	≥30dB ≥28dB ≥26dB	
Waterproof	IP68	IP68	IP68	IP68	

Cable Assemblies Numbering System

Cable	Connector 1	Connector 2	Length
½" superflex 6 S	N male Straight NM	N male Straight NM	1m 10
3/8" superflex 10S	N Right Angle male NR	N Right Angle male NR	1.5m 15
½" superflex 12S	N female Straight NF	N female Straight NF	2.0m 20
½" regular 12R	7-16 Straight male DM	7-16 Straight male DM	2.5m 25
	7-16 Angle male DR	7-16 Angle male DR	3.0m 30
Example:	7-16 Straight female DF	7-16 Straight female DF	Custom length
2.0m		Cable Length	Order Number
N male straight + 7	'-16 straight male + ½" su	perflex + Length 2.0m	=12SNMDM2



Custom Cable Assemblies

YongJin provides a wide variety of RF and Microwave cable assemblies with specific custom designs. Our custom assemblies are ideally suited for applications including wired and wireless voice and data communications, benchtop and automatic test equipment, broadcasting, and specialized instrumentation for space and aircraft.

Building on over 15years of design, development and manufacturing of RF coaxial connectors, YongJin has become a leading manufacturer of cable assemblies. Our fully automated manufacturing processs offer you the benefits of conpetitive prices and short lead times. Upon request we customize jumper cables to meet your specific requirements, such as phase adjustment with extremely narrow tolerances, cables with flame retardant sheath or cables with an additional protection Sheath.



Product Overview

Туре	LMR/ RG Cables	Semi-rigid Cables	Semi-flex Cables		
Nom. Impedance	50ohm	50ohm	50ohm		
Frequency range	DC to 2.7GHz	DC to 2.7GHz	DC to 2.7GHz		
Connector type	N, N-R/A, 7-16DIN, 7-16DIN- R/A	N, N-R/A,7-16DIN, 7-16DIN -R/A	N, N-R/A, 7-16DIN, 7-16DIN-R/A		
Cable type	•Foam or solid dielectric / braided cables •LMR 195,200,300,400 RG174,179,316,400	•Solid Teflon dielectric/ Prefoamed or straight CU & Al jacket cables •034,047,085,141,250	•Solid Teflon dielectric/ Tin dipped hand- formable cables & etc •047,085,141,250		
Applications	Broadband wireless infrastructure systems Short antenna feeds runs Broadcast & Government Communications Systems Wireless Accessories & In-Vehicle Communications systems	Mobile terminals Military land based microwave communication electronic warfare & radar Military airborne & shipboard Commercial communications infrastructure	Wireless communications infrastructure Fixed-Line Telecomm network Systems Test instrumentation Wireless Accessories and In-Vehicle Communications systems		

.For customized cables,please send us your inquiry to yjesales@yjelecomm.com

.LMR is a registered trademark of Times microwave systems.

Test Capability

- VSWR (Return Loss)
- Vector Network Analyzer test capability to 40 GHz
- PIM (Passive Intermodulation)

- Phase
- Time Domain
- Hi-Pot/Continuity



Power Divider/Combiners

Power dividers are used in a wide variety of wireless applications where a RF signal needs to be distributed or combined. YongJin's compact ,microstrip dividers cover all wireless bands from cellular through W-CDMA, UMTS, WiMAX, LTE, WLAN.....making them ideally suited for In-Building and BTS wireless applications. This power divider series provides minimal insertion loss while delivering high isolation between output ports with outstanding amplitude balance and phase. YongJin offers a comprehensive selection of 2-way through 12-way configuration in SMA, N and 7-16DIN connector styles. Our experience and flexibility allow quick turn-around on your custom applications including unequal divider with specific power split ratio, specialized frequency bands, high isolation, high power combining and alternate connector interfaces.



Power Divider/Combiners Overview

SMA-Female			N-Female	7-16DIN- Female			
			POMOS OCCUPANTA TO THE PARTY OF				
2-way	1W, 20W	2-way	1W, 20W,50W,100W	2-way	20W,50W,100W,200W		
3-way	1W, 20W	3-way	1W, 20W,50W,100W	3-way	20W,50W,100W,200W		
4-way	1W, 20W	4-way	1W, 20W,50W	4-way	20W,50W,		
6-way	1W, 20W	6-way	1W, 20W				
8-way	1W, 20W	8-way	1W, 20W,				
9-way	1W, 20W	9-way	1W, 20W				
12-way	1W, 20W	12-way	1W, 20W				

Contact us for specific custom configurations including;

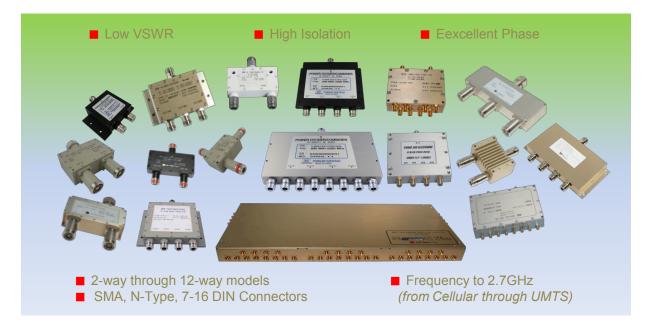
- Unequal power divider
- Alternate connector styles
- High isolation

- Alternate frequency bands
- Rack mounting or Suspension Wire mounting

Power Divider/Combiners Numbering System

Example	e: YJ D		21		C1		13		01	-	001	
			1		2		3		4		5	
1 Number of Way 3 Connector Style												
21 31 41 61	2 Way 3 Way 4Way	81 91 <u>C1</u>	91	Way Way Nay		13 15 16	SMA BNC TNC			<u>17</u> <u>18</u>	N 7-16D	IN
<u>61</u>	6 Wa y				4	<mark>4</mark> Iոpւ	ut Power					
2 Opera	iting Frequency	/ Band				<u>01</u> <u>02</u>	1W 2W			<u>50</u> A0	50W 100W	
C1 D1 D2 E1 E2 E3	0.8~1.0GHz 1.7~1.9GHz 1.7~2.2GHz					03 20	3W 20W	/		<u>A1</u> <u>A2</u>	150W 200W	
<u>E1</u> <u>E2</u> <u>E3</u>	0.8~2.2GHz 0.8~2.5GHz 0.8~2.7GHz		5 Serial Number: Indicates option codes created by the development sequence each model.									





Power Divider/Combiners, SMA-Female Series

Product Code	No. of Way	Freq. (GHz)	Power (watts)	Isolation (dB), (Min.)	Insertion Loss(dB), (Max.)	Amplitude Balance (dB)	Phase Balance (degree) (Max.)	VSWR (Max.)
YJD21C11320	2-way	0.8~1.0	20	22	0.30	0.15	2	1.2
YJD21D21320	2-way	1.7~2.2	20	22	0.30	0.15	2	1.2
YJD21E11320	2-way	0.8~2.2	20	20	0.40	0.20	3	1.2
YJD21E31320	2-way	0.8~2.7	20	20	0.50	0.25	4	1.2
YJD31C11320	3-way	0.8~1.0	20	22	0.45	0.25	4	1.2
YJD31D21320	3-way	1.7~2.2	20	22	0.45	0.25	4	1.2
YJD31E11320	3-way	0.8~2.2	20	20	0.60	0.30	5	1.2
YJD31E21320	3-way	0.8~2.5	20	20	0.70	0.40	6	1.2
YJD41C11320	4-way	0.8~1.0	20	22	0.50	0.25	4	1.2
YJD41D21320	4-way	1.7~2.2	20	22	0.50	0.25	4	1.2
YJD41E11320	4-way	0.8~2.2	20	20	0.80	0.30	5	1.2
YJD61C11320	6-way	0.8~1.0	20	21	0.60	0.30	4	1.2
YJD61D21320	6-way	1.7~2.2	20	21	0.60	0.30	4	1.2
YJD81C11320	8-way	0.8~1.0	20	20	0.70	0.35	5	1.2
YJD81D21320	8-way	1.7~2.2	20	20	0.70	0.35	5	1.2
YJDC1C11320	12-way	0.8~1.0	20	20	1.00	0.40	8	1.2
YJDC1D21320	12-way	1.7~2.2	20	20	1.00	0.40	8	1.2
YJD21E11350	2-way	0.8~2.2	50	20	0.40	0.20	3	1.2
YJD31E11350	3-way	0.8~2.2	50	20	0.60	0.30	5	1.2
YJD41E11350	4-way	0.8~2.2	50	20	0.80	0.30	5	1.2

[†] Custom configurations including unequal power divider,"Tee" configuration, alternate connector styles and special coating material for housing are available on request.

[‡] All specifications and pictures of products are typical and are subject to change without notice.



Power Divider/Combiners, N-Female Series

Product Code	No. of Way	Freq. (GHz)	Power (watts)	Isolation (dB),(Min.)	Insertion Loss(dB), (Max.)	Amplitude Balance (dB)(max.)	Phase Balance (degree) (max)	VSWR (Max.)
YJD21C11720	2-way	0.8~1.0	20	22	0.30	0.15	2	1.2
YJD21D21720	2-way	1.7~2.2	20	22	0.30	0.15	2	1.2
YJD21E11720	2-way	0.8~2.2	20	20	0.40	0.20	3	1.2
YJD21E31720	2-way	0.8~2.7	20	20	0.50	0.25	4	1.2
YJD31C11720	3-way	0.8~1.0	20	22	0.45	0.25	4	1.2
YJD31D21720	3-way	1.7~2.2	20	22	0.45	0.25	4	1.2
YJD31E11720	3-way	0.8~2.2	20	20	0.60	0.30	5	1.2
YJD31E21720	3-way	0.8~2.5	20	20	0.70	0.40	6	1.2
YJD41C11720	4-way	0.8~1.0	20	22	0.50	0.25	4	1.2
YJD41D21720	4-way	1.7~2.2	20	22	0.50	0.25	4	1.2
YJD41E11720	4-way	0.8~2.2	20	20	0.80	0.30	5	1.2
YJD61C11720	6-way	0.8~1.0	20	21	0.60	0.30	4	1.2
YJD61D21720	6-way	1.7~2.2	20	21	0.60	0.30	4	1.2
YJD81C11720	8-way	0.8~1.0	20	20	0.70	0.35	7	1.2
YJD81D21720	8-way	1.7~2.2	20	20	0.70	0.35	7	1.2
YJDC1C11720	12-way	0.8~1.0	20	20	1.00	0.40	8	1.2
YJDC1D21720	12-way	1.7~2.2	20	20	1.00	0.40	8	1.2
YJD21E11750	2-way	0.8~2.2	50	20	0.40	0.20	3	1.2
YJD31E11750	3-way	0.8~2.2	50	20	0.60	0.30	5	1.2
YJD41E11750	4-way	0.8~2.2	50	20	0.80	0.30	5	1.2

[†] Custom configurations including unequal power divider,"Tee" configuration, alternate connector styles and special coating material for housing are available on request.

Power Divider/Combiners, 7-16DIN Female Series

Product Code	No. of Way	Freq. (GHz)	Power (watts)	Isolation (dB), (Min)	Insertion Loss(dB), (Max.)	Amplitude Balance (dB),(Max.)	Phase Balance (degree) (max.)	VSWR (Max.)
YJD21C118A0	2-way	0.8~1.0	100	20	0.30	0.15	2	1.2
YJD21D218A0	2-way	1.7~2.2	100	20	0.30	0.15	2	1.2
YJD21E118A0	2-way	0.8~2.2	100	15	0.65	0.35	3	1.2
YJD31C118A0	3-way	0.8~1.0	100	20	0.45	0.25	4	1.2
YJD31D218A0	3-way	1.7~2.2	100	17	0.75	0.25	4	1.2
YJD31E118A0	3-way	0.8~2.2	100	15	1.10	0.40	5	1.2
YJD41C118A0	4-way	0.8~1.0	100	20	0.45	0.25	4	1.2
YJD41D218A0	4-way	1.7~2.2	100	17	0.85	0.25	4	1.2
YJD41E118A0	4-way	0.8~2.2	100	15	1.20	0.40	5	1.2

^{.†} Custom configurations including unequal power divider,"Tee" configuration, alternate connector styles and special coating material for housing are available on request.

[‡] All specifications and pictures of products are typical and are subject to change without notice.

[‡] All specifications and pictures of products are typical and are subject to change without notice.



Power Splitters

YongJin offers a new line of low loss and high power capable power splitters covering all wireless frequencies from 0.8~2.7GHz. A broad range of power splitters are available in 2, 3 and 4way configurations fitted with N-Type and 7-16DIN connector styles to combine various antenna systems to radio base station for mobile communication networks. This power splitter series has been designed to provide a low loss, equal power split at all output ports while maintaining excellent amplitude and phase balance. Our experience and flexibility allow quick turn-around on your custom applications including specialized frequency bands, high power combining and any specific configurations such as block, umbrella, cross, and benchtop style.

Power Splitters Overview

No. of Way	Connector Style	Frequency Band	Configuration
2-Way	N-Female	0.8~1.0GHz	SPR.
	N-Female	1.7~2.2GHz	
	N-Female	0.8~2.7GHz	
	7-16Female	0.8~1.0GHz	
	7-16Female	1.7~2.2GHz	2-000s top? Prome Equitors the title 2002000sy
	7-16Female	0.8~2.7GHz	T.
3-Way	N-Female	0.8~1.0GHz	A B
	N-Female	1.7~2.2GHz	101
	N-Female	0.8~2.7GHz	
	7-16Female	0.8~1.0GHz	
	7-16Female	1.7~2.2GHz	PARKODIC COM NA PRINCIP COM STATE OF THE PARK OF THE P
	7-16Female	0.8~2.7GHz	U
4-Way	N-Female	0.8~1.0GHz	
	N-Female	1.7~2.2GHz	
	N-Female	0.8~2.7GHz	T B
	7-16Female	0.8~1.0GHz	A 90
	7-16Female	1.7~2.2GHz	
	7-16Female	0.8~2.7GHz	

Power Splitters Numbering System

Exam	ple:	YJ S	20	1	C1		17		01	-	001	1	
			1		2		3		4		5		
1 Numb	er of W	ay		3 Con	nector St	yle							
	2 Way			<u>13</u>	SMA		<u>17</u>	Ν			<u> 18</u>	7-1	L6DIN
		33:33:33) 25:25:50)		4 Inpu	ıt Power								
	4 Wa y `	,		<u>01</u>	1W		<u>A0</u>	10	0W	4	<u>A3</u>	300	WC
2 Opera	2 Operating Frequency Band		nd	<u>05</u> 20	5W 20W		<u>A1</u> <u>A2</u>		0W 0W		<u>A4</u> A5	400 500	
<u>D1</u> <u>D2</u>	0.8~1.00 1.7~1.90 1.7~2.20 0.8~2.70	SHz SHz		5 Seri	al Numbe developi		dicates	optio	on cod	es th	nat's d		



Power Splitter within frequency range 800~1000MHz

Product Code	No. of way	Connector type	Insertion Loss(dB),Max	VSWR (Max.)	Input Power(W)
YJS201C117A2	2-way	N-Female	0.3	1.2	200
YJS301C117A2	3-way	N-Female	0.3	1.2	200
YJS401C117A2	4-way	N-Female	0.3	1.2	200
YJS201C118A5	2-way	7-16 Female	0.3	1.2	500
YJS301C118A5	3-way	7-16 Female	0.3	1.2	500
YJS401C118A5	4-way	7-16 Female	0.3	1.2	500



- Amplitude balance
- Phase balance
- 0.2 dB max. 3 degree max.

Power Splitter within frequency range 1700~2200MHz

Product Code	No. of way	Connector type	Insertion Loss(dB),Max	VSWR (Max.)	Input Power(W)
YJS201D217A2	2-way	N-Female	0.3	1.2	200
YJS301D217A2	3-way	N-Female	0.3	1.2	200
YJS401D217A2	4-way	N-Female	0.3	1.2	200
YJS201D218A5	2-way	7-16 Female	0.3	1.2	500
YJS301D218A5	3-way	7-16 Female	0.3	1.2	500
YJS401D218A5	4-way	7-16 Female	0.3	1.2	500







- Amplitude balance
- Phase balance
- 0.2 dB max. 3 degree max.

Power Splitter within frequency range 800~2700MHz

Product Code	No. of way	Connector type	Insertion Loss(dB),Max	VSWR (Max.)	Input Power(W)
YJS201E317A2	2-way	N-Female	0.3	1.2	200
YJS301E317A2	3-way	N-Female	0.3	1.2	200
YJS401E317A2	4-way	N-Female	0.3	1.2	200
YJS201E318A5	2-way	7-16 Female	0.3	1.2	500
YJS301E318A5	3-way	7-16 Female	0.3	1.2	500
YJS401E318A5	4-way	7-16 Female	0.3	1.2	500



0.2 dB max. 3 degree max.



Directional Couplers

Directional Couplers are used in a wide variety of wireless applications where line monitoring, signal mixing, isolation of signal sources, and power and reflection measurements are required. YongJin's compact, directional couplers cover all wireless bands from cellular through W-CDMA or UMTS(0.80 ~2..5GHz) making them ideally suited for In-Building and BTS wireless applications. This directional coupler series provides minimal insertionloss while delivering high directivity and outstanding VSWR.

YongJin offers a comprehensive selection of 6,10,20,30,40 and 50 dB coupling values in SMA,N and 7-16DIN connector styles. Our extensive experience and flexibility allow quick turn-around on your custom applications including external high power terminations, special coupling values, alternate connector interfaces and weatherproofing.

Directional Couplers Products Overview

	SMA-Female	N-Female				
		THE STATE OF THE S	Page and the second of the sec			
Single (Internal Term)	6dB, 10dB, 20dB, 30dB,40dB, 50dB	Single (Internal Term)	6dB, 10dB, 20dB, 30dB,40dB, 50dB			
Single (External Term)	6dB, 10dB, 20dB, 30dB,40dB, 50dB	Single (External Term)	6dB, 10dB, 20dB, 30dB,40dB, 50dB			
Dual directional coupler	6dB, 10dB, 20dB, 30dB,40dB, 50dB	Dual directional coupler	6dB, 10dB, 20dB, 30dB,40dB, 50dB			

Contact us for specific custom configurations including;

Special coupling value

- Alternate connector styles
- Alternate frequency bands
- External high power termination

Directional Couplers Numbering System

Example:	YJ C		20	C1	1 3		01	-	001	
			1	2	3		4		5	
1 Coupling	Value			3 Cc	onnector Sty	yle				
06 6	dB	<u>60</u>	60dB		<u>13</u>	SMA				
<u>10</u> 100	dB	<u>A0</u>	100dB		<u>13</u> <u>17</u>	Ν				
06 6 10 10 20 20	dB	<u>A1</u>	110dB		<u>18</u>	7-16[DIN			
<u>30</u> 300	dB			4 Co	oupler Shap	e				
2 Operating	Frequency	Band			. 01	Single	e(Interi	nal te	rm)	
C1 0.8	~1.0GHz				<u>01</u> 02		e(Exter			
D1 1.7	~1.9GHz				<u>11</u>	Dual	-(,	
C1 0.8 D1 1.7 D2 1.7 E1 0.8 E2 0.8	~2.2GHz									
<u>E1</u> 0.8	~2.2GHz				rial Number					
E2 0.8	~2.5GHz			th	ne developm	nent sed	quence	for e	ach mode	el.



Single/Dual Directional Couplers, SMA-Female









Product Code	Туре	Frequency (GHz)	Directivity (dB)(Min.)	Insertion ¹ loss(dB),(Max.)	VSWR (Max.)	Input - Power(W)
YJC00C11301	Single	0.8~1.0	22	0.1	1.2	70
YJC00D21301	Single	1.7~2.2	22	0.1	1.2	70
YJC00E11301	Single	0.8~2.2	20	0.1	1.2	70
YJC00C11311	Dual	0.8~1.0	22	0.1	1.2	70
YJC00D21311	Dual	1.7~2.2	22	0.1	1.2	70

¹ The insertion losses on the table exclude theoretical insertion loss due to the coupling.

Theoretical insertion loss value(dB)										
Туре	6dB	10dB	20dB	30dB	40dB					
Single	1.3	0.5	0.05	0.05	0.0005					
Dual	2.6	1.0	0.10	0.10	0.001					

[†] Custom configurations with special coupling values, external high power terminations and alternate connector styles or plating are readily available on request.

Single/Dual Directional Couplers, N-Female









Product Code	Туре	Frequency (GHz)	Directivity (dB)(Min.)	Insertion ¹ loss(dB)(Max.)	VSWR (Max.)	Input - Power(W)
YJC00C11701	Single	0.8~1.0	22	0.1	1.2	100
YJC00D21701	Single	1.7~2.2	22	0.1	1.2	100
YJC00D11701	Single	0.8~2.2	20	0.1	1.2	100
YJC00C11711	Dual	0.8~1.0	22	0.1	1.2	100
YJC00D21711	Dual	1.7~2.2	22	0.1	1.2	100

¹ The insertion losses on the table exclude theoretical insertion loss due to the coupling.

Theoretical insertion loss value(dB)								
Туре	Type 6dB 10dB 20dB 30dB 40dB							
Single	1.3	0.5	0.05	0.05	0.0005			
Dual 2.6 1.0 0.10 0.10 0.001								

[†] Custom configurations with special coupling values, external high power terminations and alternate connector styles or plating are readily available on request.

[‡] All specifications and pictures of products are typical and are subject to change without notice.

[‡] All specifications and pictures of products are typical and are subject to change without notice.

Attenuators

Attenuators are used in a wide variety of application and its main function is to adjust the signal level within the dynamic range of common test equipment. Attenuators are also used to balance out transmission lines that otherwise would have unequal signal levels. YongJin offers a wide selection of attenuators with standard attenuation values of 3,6,10,20 and 30dB in SMA,N, 7-16DIN connector styles. Custom models with different attenuation values, power ratings, connector styles and configurations are also available on request.











Product Code	Attenuation Value	Connector type	Freq.(GHz)	Power , Average(watts)
YJA03E51710-()	3dB	N female-N female	DC~ 3GHz	2W, 25W, 50W,100W
YJA06E51710-()	6dB	N female-N female	DC~ 3GHz	2W, 25W, 50W,100W
YJA10E51710-()	10dB	N female-N female	DC~ 3GHz	2W, 25W, 50W,100W
YJA20E51710-()	20dB	N female-N female	DC~ 3GHz	2W, 25W, 50W,100W
YJA30E51710-()	30dB	N female-N female	DC~ 3GHz	2W, 25W, 50W,100W

Attenuators Numbering System:

YJA<u>03E51710-</u>(

Designates attenuation value, frequency band,, connector type & I/O port combination



Power code (ex; 2watts: 02)

Terminations

The terminations serve as a matched loads to provide a termination to absorb all the incident power with very little refection by terminating the line or port in its characteristic impedance. In order to ensure an accurate measurement, any port of a multi-port RF device that is not involved in the measurement should be terminated in its characteristic impedance required. YongJin offers a wide selection of terminators with power ratings from 1 to 300 watts and frequency ranges up to 18GHz.

Product Code

YJTE51810-01

YJTE51810-05

YJTE51810-10

YJTE51810-25

YJTE51810-50

YJTE51810-A0



YJTE51710-01

YJTE51710-05

YJTE51710-10

YJTE51710-25

YJTE51710-50

YJTE51710-A0



Freq.

(GHz)

DC~3GHz

DC~3GHz

DC~3GHz

DC~3GHz

DC~3GHz

DC~3GHz

Power

(watts)

1W

5W

10W

25W

50W

100W



Conector

N female

N female

N female

N female

N female

N female

type



_		
Power (watts)	Freq. (GHz)	Connector type
1W	DC~3GHz	7-16DIN female
5W	DC~3GHz	7-16DIN female
10W	DC~3GHz	7-16DIN female
25W	DC~3GHz	7-16DIN female
50W	DC~3GHz	7-16DIN female
100\//	DC~3GHz	7-16DIN female

DC Blockers

The DC blocker serves as a high pass filter to prevent the flow of unwanted DC on a coaxial cable causing interference in wireless systems using a common feeder line for multiple services(ex;900 and 800/UMTS). The DC blocker is robust, compact and easy to install. It also features very low insertion loss.

Product Code	Frequency Band	Connector type
YJBE51305	DC~3GHz	SMA
YJBE517A0	DC~3GHz	N type
YJBE518A3	DC~3GHz	7-16DIN





Connector Adapters

The adapters are used to join two incompatible series and provide a transition from one connector series to Another. YongJin offers a broad line of adapters covering all the major series to provide the user maximum flexibility.















Product Code	Description	Product Code	Description
A-NMNM-S	N Male – N Male, straight	A-DFNF-S	7-16DIN Female-N female, straight
A-NMNF-S	N Male – N Female, straight	A-DMNM-R	7-16DIN Male-N Male, right angle
A-NMNF-R	N Male-N Female, right angle	A-DMNF-R	7-16DIN Male-N Female, right angle
A-DMNM-S	7-16DIN Male-N Male, straight	A-DMDM-S	7-16DIN Male-7-16DIN Male, straight
A-DMNF-S	7-16DIN Male-N Female, straight	A-DMDF-S	7-16DIN Male-7-16DIN Female, straight
A-DFNM-S	7-16DIN Female-N Male, straight	A-DMDF-R	7-16DIN Male-7-16DIN Female, right angle

Cable Trimming Tools

Connector attachment is one of the most important factors affecting RF transmision line performance. YongJin offers a complete line of cable preparation tools in sizes ranging from 1/2" to 1-5/8" which are designed to trim the jacket and outer conductor in seconds.

These trimming tools make the accurate cuts of cables at top of corrugation at exact distance required for easy connector attachment which allows to ensure consistent electrical performance for your valued applications.









Product Code	Description	Cable type
CUT-0104-01	Cable trimming tool	3/8" superflex cable
CUT-0108-01	Cable trimming tool	1/2" superflex cable
CUT-0105-01	Cable trimming tool	1/2" regular flex cable
CUT-0109-01	Cable trimming tool	7/8" regular flex cable
CUT-0114-01	Cable trimming tool	1 1/4" regular flex cable
CUT-0118-01	Cable trimming tool	1 5/8" regular flex cable
FLT-0109-01	Cable flaring tool	7/8" regular flex cable
FLT-0114-01	Cable flaring tool	1 1/4" regular flex cable
FLT-0118-01	Cable flaring tool	1 5/8" regular flex cable



Conversion Table

The reflection coefficient sums up the effects of all the impedance variations within the cable and its end at a certain frequency. "Return Loss" and "V.S.W.R" is usually used instead of reflection coefficient.

The following formulas can be used for converting among "Returns Loss", "Reflection, Coefficient" and ""V.S.W.R."

V.S.W.R =
$$\frac{1+|\varUpsilon|}{1-|\varUpsilon|}$$
 Reflection Coefficient (Γ) = $\frac{Z_L - Z_0}{Z_L + Z_0} = \frac{Z_n - 1}{Z_n + 1} \left(Z_n = \frac{Z_L}{Z_0} \right)$ R.L. (Return Loss) = -20 log (Γ)

1.0101 0.0050 46.0 1.0530 0.0257 31.8 1.1380 0.0645 23.8 1.0107 0.0053 45.5 1.0580 0.0269 31.4 1.1400 0.0654 23.7 1.0127 0.0063 44.0 1.0590 0.0282 31.0 1.1450 0.0676 23.4 1.0130 0.0065 43.8 1.0600 0.0291 31.7 1.1500 0.0688 23.1 1.0134 0.0066 43.5 1.0640 0.0309 30.2 1.1560 0.0724 22.8 1.0143 0.0070 43.0 1.0650 0.0315 30.0 1.1600 0.0741 22.6 1.0151 0.0075 42.5 1.0680 0.0329 29.6 1.1640 0.0759 22.4 1.0160 0.0080 41.0 1.0740 0.0347 29.2 1.1700 0.0733 22.1 1.0170 0.0083 41.5 1.0750 0.0361 28.8 1.1770 0.0813 21.	V.S.W.R	Reflection Coefficient (Γ)	Return Loss (dB)	V.S.W.R	Reflection Coefficient (Γ)	Return Loss (dB)	V.S.W.R	Reflection Coefficient (Γ)	Return Loss (dB)
10120 0.0060 44,5 1.0580 0.0282 31.0 1.1450 0.0676 23,4 1.0127 0.0063 44,0 1.0590 0.0288 30.9 1.1490 0.0692 23,2 1.0130 0.0065 43.8 1.0600 0.0291 31.7 1.1500 0.0698 23,1 1.0134 0.0066 43.5 1.0640 0.0309 30.2 1.1560 0.0724 22,8 1.0151 0.0075 42.5 1.0680 0.0329 29.6 1.1640 0.0759 22,2 1.0160 0.0080 42.0 1.0700 0.0334 29,4 1.1680 0.0776 22,2 1.0170 0.0083 41.5 1.0720 0.0347 29,2 1.1700 0.0783 22,1 1.0180 0.0089 41.0 1.0740 0.0357 29.0 1.1730 0.0794 22,0 1.0190 0.0094 40.5 1.0750 0.0361 28.8 1.1770 0.0813 21.8	1.0101	0.0050	46.0	1.0530	0.0257	31.8	1.1380	0.0645	23.8
1.0127 0.0063 44.0 1.0590 0.0288 30.9 1.1490 0.0692 23.2 1.0130 0.0065 43.8 1.0600 0.0291 31.7 1.1500 0.0698 23.1 1.0134 0.0066 43.5 1.0640 0.0309 30.2 1.1560 0.0724 22.8 1.0143 0.0070 43.0 1.0650 0.0315 30.0 1.1600 0.0741 22.6 1.0151 0.0075 42.5 1.0680 0.0329 29.6 1.1640 0.0759 22.4 1.0160 0.0080 42.0 1.0700 0.0347 29.2 1.1700 0.0783 22.1 1.0170 0.0083 41.5 1.0720 0.0347 29.2 1.1730 0.0794 22.0 1.0180 0.00894 41.0 1.0740 0.0357 29.0 1.1730 0.0794 22.0 1.0190 0.00994 40.0 1.0770 0.0371 28.4 1.1800 0.0826 2	1.0107	0.0053	45.5	1.0550	0.0269	31.4	1.1400	0.0654	23.7
10130 0.0065 43.8 1.0600 0.0291 31.7 1.1500 0.0698 23.1 1.0134 0.0066 43.5 1.0640 0.0309 30.2 1.1560 0.0724 22.8 1.0143 0.0070 43.0 1.0650 0.0315 30.0 1.1600 0.0741 22.6 1.0151 0.0075 42.5 1.0680 0.0329 29.6 1.1640 0.0759 22.4 1.0160 0.0080 42.0 1.0700 0.0347 29.2 1.1700 0.0783 22.1 1.0180 0.0089 41.0 1.0740 0.0357 29.0 1.1730 0.0794 22.0 1.0190 0.0094 40.5 1.0750 0.0361 28.8 1.1770 0.0813 21.8 1.0200 0.0099 40.0 1.0770 0.0371 28.4 1.1800 0.0826 21.7 1.0210 0.0102 39.7 1.0800 0.0385 28.3 1.1810 0.0826 21.7	1.0120	0.0060	44.5	1.0580	0.0282	31.0	1.1450	0.0676	23.4
1.0134 0.0066 43.5 1.0640 0.0309 30.2 1.1560 0.0724 22.8 1.0143 0.0070 43.0 1.0650 0.0315 30.0 1.1600 0.0741 22.6 1.0151 0.0075 42.5 1.0680 0.0329 29.6 1.1640 0.0759 22.4 1.0160 0.0080 42.0 1.0700 0.0334 29.4 1.1680 0.0776 22.2 1.0170 0.0083 41.5 1.0720 0.0347 29.2 1.1700 0.0783 22.1 1.0180 0.0089 41.0 1.0740 0.0357 29.0 1.1730 0.0794 22.0 1.0190 0.0094 40.5 1.0750 0.0361 28.8 1.1770 0.0813 21.8 1.0210 0.0102 39.7 1.0800 0.0385 28.3 1.1810 0.0822 21.6 1.0220 0.0109 39.3 1.0850 0.0408 27.8 1.1900 0.0868 21.	1.0127	0.0063	44.0	1.0590	0.0288	30.9	1.1490	0.0692	23.2
1.0143 0.0070 43.0 1.0650 0.0315 30.0 1.1600 0.0741 22.6 1.0151 0.0075 42.5 1.0680 0.0329 29.6 1.1640 0.0759 22.4 1.0160 0.0080 42.0 1.0700 0.0334 29.4 1.1680 0.0776 22.2 1.0170 0.0083 41.5 1.0720 0.0347 29.2 1.1700 0.0783 22.1 1.0180 0.0089 41.0 1.0740 0.0357 29.0 1.1730 0.0794 22.0 1.0190 0.0094 40.5 1.0750 0.0361 28.8 1.1770 0.0813 21.8 1.0200 0.0099 40.0 1.0770 0.0371 28.4 1.1800 0.0826 21.7 1.0210 0.0102 39.7 1.0800 0.0385 28.3 1.1810 0.0822 21.6 1.0220 0.0109 39.3 1.0830 0.0398 28.0 1.1860 0.0851 21.	1.0130	0.0065	43.8	1.0600	0.0291	31.7	1.1500	0.0698	23.1
1.0151 0.0075 42.5 1.0680 0.0329 29.6 1.1640 0.0759 22.4 1.0160 0.0080 42.0 1.0700 0.0334 29.4 1.1680 0.0776 22.2 1.0170 0.0083 41.5 1.0720 0.0347 29.2 1.1700 0.0783 22.1 1.0180 0.0089 41.0 1.0740 0.0357 29.0 1.1730 0.0794 22.0 1.0190 0.0094 40.5 1.0750 0.0361 28.8 1.1770 0.0813 21.8 1.0200 0.0099 40.0 1.0770 0.0371 28.4 1.1800 0.0826 21.7 1.0210 0.0102 39.7 1.0800 0.0385 28.3 1.1810 0.0832 21.6 1.0220 0.0109 39.3 1.0830 0.0398 28.0 1.1860 0.0851 21.4 1.0230 0.0112 39.0 1.0850 0.0408 27.8 1.1900 0.0868 21.	1.0134	0.0066	43.5	1.0640	0.0309	30.2	1.1560	0.0724	22.8
1.0160 0.0080 42.0 1.0700 0.0334 29.4 1.1680 0.0776 22.2 1.0170 0.0083 41.5 1.0720 0.0347 29.2 1.1700 0.0783 22.1 1.0180 0.0089 41.0 1.0740 0.0357 29.0 1.1730 0.0794 22.0 1.0190 0.0094 40.5 1.0750 0.0361 28.8 1.1770 0.0813 21.8 1.0200 0.0099 40.0 1.0770 0.0371 28.4 1.1800 0.0826 21.7 1.0210 0.0102 39.7 1.0800 0.0385 28.3 1.1810 0.0822 21.6 1.0220 0.0109 39.3 1.0830 0.0398 28.0 1.1860 0.0851 21.4 1.0230 0.0112 39.0 1.0850 0.0408 27.8 1.1900 0.0868 21.2 1.0240 0.0118 38.5 1.0870 0.0417 27.6 1.2000 0.0999 20.	1.0143	0.0070	43.0	1.0650	0.0315	30.0	1.1600	0.0741	22.6
1.0170 0.0083 41.5 1.0720 0.0347 29.2 1.1700 0.0783 22.1 1.0180 0.0089 41.0 1.0740 0.0357 29.0 1.1730 0.0794 22.0 1.0190 0.0094 40.5 1.0750 0.0361 28.8 1.1770 0.0813 21.8 1.0200 0.0099 40.0 1.0770 0.0371 28.4 1.1800 0.0826 21.7 1.0210 0.0102 39.7 1.0800 0.0385 28.3 1.1810 0.0832 21.6 1.0220 0.0109 39.3 1.0830 0.0385 28.3 1.1860 0.0851 21.4 1.0230 0.0112 39.0 1.0850 0.0408 27.8 1.1900 0.0868 21.2 1.0240 0.0118 38.5 1.0870 0.0417 27.6 1.2000 0.0999 20.8 1.0250 0.0123 38.2 1.0890 0.0426 27.4 1.2100 0.0950 20.	1.0151	0.0075	42.5	1.0680	0.0329	29.6	1.1640	0.0759	22.4
1.0180 0.0089 41.0 1.0740 0.0357 29.0 1.1730 0.0794 22.0 1.0190 0.0094 40.5 1.0750 0.0361 28.8 1.1770 0.0813 21.8 1.0200 0.0099 40.0 1.0770 0.0371 28.4 1.1800 0.0826 21.7 1.0210 0.0102 39.7 1.0800 0.0385 28.3 1.1810 0.0832 21.6 1.0220 0.0109 39.3 1.0830 0.0398 28.0 1.1860 0.0851 21.4 1.0230 0.0112 39.0 1.0850 0.0408 27.8 1.1900 0.0868 21.2 1.0240 0.0118 38.5 1.0870 0.0417 27.6 1.2000 0.0909 20.8 1.0250 0.0123 38.2 1.0890 0.0426 27.4 1.2100 0.0950 20.4 1.0260 0.0129 37.8 1.0900 0.0431 27.3 1.2300 0.1031 19.	1.0160	0.0080	42.0	1.0700	0.0334	29.4	1.1680	0.0776	22.2
1.0190 0.0094 40.5 1.0750 0.0361 28.8 1.1770 0.0813 21.8 1.0200 0.0099 40.0 1.0770 0.0371 28.4 1.1800 0.0826 21.7 1.0210 0.0102 39.7 1.0800 0.0385 28.3 1.1810 0.0832 21.6 1.0220 0.0109 39.3 1.0830 0.0398 28.0 1.1860 0.0851 21.4 1.0230 0.0112 39.0 1.0850 0.0408 27.8 1.1900 0.0868 21.2 1.0240 0.0118 38.5 1.0870 0.0417 27.6 1.2000 0.0909 20.8 1.0250 0.0123 38.2 1.0890 0.0426 27.4 1.2100 0.0950 20.4 1.0260 0.0129 37.8 1.0900 0.0431 27.3 1.2300 0.1031 19.7 1.0290 0.0143 37.0 1.0910 0.0435 27.2 1.2400 0.1071 19.	1.0170	0.0083	41.5	1.0720	0.0347	29.2	1.1700	0.0783	22.1
1.0200 0.0099 40.0 1.0770 0.0371 28.4 1.1800 0.0826 21.7 1.0210 0.0102 39.7 1.0800 0.0385 28.3 1.1810 0.0832 21.6 1.0220 0.0109 39.3 1.0830 0.0398 28.0 1.1860 0.0851 21.4 1.0230 0.0112 39.0 1.0850 0.0408 27.8 1.1900 0.0868 21.2 1.0240 0.0118 38.5 1.0870 0.0417 27.6 1.2000 0.0909 20.8 1.0250 0.0123 38.2 1.0890 0.0426 27.4 1.2100 0.0950 20.4 1.0260 0.0129 37.8 1.0900 0.0431 27.3 1.2300 0.1031 19.7 1.0290 0.0143 37.0 1.0910 0.0435 27.2 1.2400 0.1071 19.4 1.0310 0.0148 36.6 1.0940 0.0449 27.0 1.2500 0.1111 19.	1.0180	0.0089	41.0	1.0740	0.0357	29.0	1.1730	0.0794	22.0
1.0210 0.0102 39.7 1.0800 0.0385 28.3 1.1810 0.0832 21.6 1.0220 0.0109 39.3 1.0830 0.0398 28.0 1.1860 0.0851 21.4 1.0230 0.0112 39.0 1.0850 0.0408 27.8 1.1900 0.0868 21.2 1.0240 0.0118 38.5 1.0870 0.0417 27.6 1.2000 0.0909 20.8 1.0250 0.0123 38.2 1.0890 0.0426 27.4 1.2100 0.0950 20.4 1.0260 0.0129 37.8 1.0900 0.0431 27.3 1.2300 0.1031 19.7 1.0290 0.0143 37.0 1.0910 0.0435 27.2 1.2400 0.1071 19.4 1.0300 0.0148 36.6 1.0940 0.0449 27.0 1.2500 0.1111 19.1 1.0310 0.0151 36.3 1.0960 0.0458 26.8 1.2600 0.1189 18.	1.0190	0.0094	40.5	1.0750	0.0361	28.8	1.1770	0.0813	21.8
1.0220 0.0109 39.3 1.0830 0.0398 28.0 1.1860 0.0851 21.4 1.0230 0.0112 39.0 1.0850 0.0408 27.8 1.1900 0.0868 21.2 1.0240 0.0118 38.5 1.0870 0.0417 27.6 1.2000 0.0909 20.8 1.0250 0.0123 38.2 1.0890 0.0426 27.4 1.2100 0.0950 20.4 1.0260 0.0129 37.8 1.0900 0.0431 27.3 1.2300 0.1031 19.7 1.0290 0.0143 37.0 1.0910 0.0435 27.2 1.2400 0.1071 19.4 1.0300 0.0148 36.6 1.0940 0.0449 27.0 1.2500 0.1111 19.1 1.0310 0.0151 36.3 1.0960 0.0458 26.8 1.2600 0.1189 18.5 1.0350 0.0170 35.3 1.1000 0.0476 26.4 1.2800 0.1228 18.	1.0200	0.0099	40.0	1.0770	0.0371	28.4	1.1800	0.0826	21.7
1.0230 0.0112 39.0 1.0850 0.0408 27.8 1.1900 0.0868 21.2 1.0240 0.0118 38.5 1.0870 0.0417 27.6 1.2000 0.0909 20.8 1.0250 0.0123 38.2 1.0890 0.0426 27.4 1.2100 0.0950 20.4 1.0260 0.0129 37.8 1.0900 0.0431 27.3 1.2300 0.1031 19.7 1.0290 0.0143 37.0 1.0910 0.0435 27.2 1.2400 0.1071 19.4 1.0300 0.0148 36.6 1.0940 0.0449 27.0 1.2500 0.1111 19.1 1.0310 0.0151 36.3 1.0960 0.0458 26.8 1.2600 0.1150 18.8 1.0320 0.0159 36.0 1.0980 0.0466 26.6 1.2700 0.1189 18.5 1.0350 0.0170 35.3 1.1060 0.0503 26.0 1.2900 0.1266 18.	1.0210	0.0102	39.7	1.0800	0.0385	28.3	1.1810	0.0832	21.6
1.0240 0.0118 38.5 1.0870 0.0417 27.6 1.2000 0.0909 20.8 1.0250 0.0123 38.2 1.0890 0.0426 27.4 1.2100 0.0950 20.4 1.0260 0.0129 37.8 1.0900 0.0431 27.3 1.2300 0.1031 19.7 1.0290 0.0143 37.0 1.0910 0.0435 27.2 1.2400 0.1071 19.4 1.0300 0.0148 36.6 1.0940 0.0449 27.0 1.2500 0.1111 19.1 1.0310 0.0151 36.3 1.0960 0.0458 26.8 1.2600 0.1150 18.8 1.0320 0.0159 36.0 1.0980 0.0466 26.6 1.2700 0.1189 18.5 1.0350 0.0170 35.3 1.1000 0.0476 26.4 1.2800 0.1228 18.2 1.0360 0.0178 35.0 1.1060 0.0503 26.0 1.2900 0.1266 18.	1.0220	0.0109	39.3	1.0830	0.0398	28.0	1.1860	0.0851	21.4
1.0250 0.0123 38.2 1.0890 0.0426 27.4 1.2100 0.0950 20.4 1.0260 0.0129 37.8 1.0900 0.0431 27.3 1.2300 0.1031 19.7 1.0290 0.0143 37.0 1.0910 0.0435 27.2 1.2400 0.1071 19.4 1.0300 0.0148 36.6 1.0940 0.0449 27.0 1.2500 0.1111 19.1 1.0310 0.0151 36.3 1.0960 0.0458 26.8 1.2600 0.1150 18.8 1.0320 0.0159 36.0 1.0980 0.0466 26.6 1.2700 0.1189 18.5 1.0350 0.0170 35.3 1.1000 0.0476 26.4 1.2800 0.1228 18.2 1.0360 0.0178 35.0 1.1060 0.0503 26.0 1.2900 0.1266 18.0 1.0470 0.0182 34.8 1.1080 0.0512 25.8 1.3000 0.1304 17.	1.0230	0.0112	39.0	1.0850	0.0408	27.8	1.1900	0.0868	21.2
1.0260 0.0129 37.8 1.0900 0.0431 27.3 1.2300 0.1031 19.7 1.0290 0.0143 37.0 1.0910 0.0435 27.2 1.2400 0.1071 19.4 1.0300 0.0148 36.6 1.0940 0.0449 27.0 1.2500 0.1111 19.1 1.0310 0.0151 36.3 1.0960 0.0458 26.8 1.2600 0.1150 18.8 1.0320 0.0159 36.0 1.0980 0.0466 26.6 1.2700 0.1189 18.5 1.0350 0.0170 35.3 1.1000 0.0476 26.4 1.2800 0.1228 18.2 1.0360 0.0178 35.0 1.1060 0.0503 26.0 1.2900 0.1266 18.0 1.0370 0.0182 34.8 1.1080 0.0512 25.8 1.3000 0.1304 17.7 1.0420 0.0204 33.7 1.1140 0.0539 25.4 1.3300 0.1416 17.	1.0240	0.0118	38.5	1.0870	0.0417	27.6	1.2000	0.0909	20.8
1.0290 0.0143 37.0 1.0910 0.0435 27.2 1.2400 0.1071 19.4 1.0300 0.0148 36.6 1.0940 0.0449 27.0 1.2500 0.1111 19.1 1.0310 0.0151 36.3 1.0960 0.0458 26.8 1.2600 0.1150 18.8 1.0320 0.0159 36.0 1.0980 0.0466 26.6 1.2700 0.1189 18.5 1.0350 0.0170 35.3 1.1000 0.0476 26.4 1.2800 0.1228 18.2 1.0360 0.0178 35.0 1.1060 0.0503 26.0 1.2900 0.1266 18.0 1.0370 0.0182 34.8 1.1080 0.0512 25.8 1.3000 0.1304 17.7 1.0400 0.0195 34.2 1.1110 0.0521 25.7 1.3100 0.1342 17.5 1.0420 0.0204 33.7 1.1140 0.0539 25.4 1.3300 0.1416 17.	1.0250	0.0123	38.2	1.0890	0.0426	27.4	1.2100	0.0950	20.4
1.0300 0.0148 36.6 1.0940 0.0449 27.0 1.2500 0.1111 19.1 1.0310 0.0151 36.3 1.0960 0.0458 26.8 1.2600 0.1150 18.8 1.0320 0.0159 36.0 1.0980 0.0466 26.6 1.2700 0.1189 18.5 1.0350 0.0170 35.3 1.1000 0.0476 26.4 1.2800 0.1228 18.2 1.0360 0.0178 35.0 1.1060 0.0503 26.0 1.2900 0.1266 18.0 1.0370 0.0182 34.8 1.1080 0.0512 25.8 1.3000 0.1304 17.7 1.0400 0.0195 34.2 1.1110 0.0521 25.7 1.3100 0.1342 17.5 1.0420 0.0204 33.7 1.1140 0.0539 25.4 1.3300 0.1416 17.0 1.0430 0.0209 33.5 1.1160 0.0548 25.2 1.3500 0.1489 16.	1.0260	0.0129	37.8	1.0900	0.0431	27.3	1.2300	0.1031	19.7
1.0310 0.0151 36.3 1.0960 0.0458 26.8 1.2600 0.1150 18.8 1.0320 0.0159 36.0 1.0980 0.0466 26.6 1.2700 0.1189 18.5 1.0350 0.0170 35.3 1.1000 0.0476 26.4 1.2800 0.1228 18.2 1.0360 0.0178 35.0 1.1060 0.0503 26.0 1.2900 0.1266 18.0 1.0370 0.0182 34.8 1.1080 0.0512 25.8 1.3000 0.1304 17.7 1.0400 0.0195 34.2 1.1110 0.0521 25.7 1.3100 0.1342 17.5 1.0420 0.0204 33.7 1.1140 0.0539 25.4 1.3300 0.1416 17.0 1.0430 0.0209 33.5 1.1160 0.0548 25.2 1.3500 0.1489 16.5 1.0440 0.0214 33.3 1.1120 0.0557 25.1 1.3600 0.1525 16.	1.0290	0.0143	37.0	1.0910	0.0435	27.2	1.2400	0.1071	19.4
1.0320 0.0159 36.0 1.0980 0.0466 26.6 1.2700 0.1189 18.5 1.0350 0.0170 35.3 1.1000 0.0476 26.4 1.2800 0.1228 18.2 1.0360 0.0178 35.0 1.1060 0.0503 26.0 1.2900 0.1266 18.0 1.0370 0.0182 34.8 1.1080 0.0512 25.8 1.3000 0.1304 17.7 1.0400 0.0195 34.2 1.1110 0.0521 25.7 1.3100 0.1342 17.5 1.0420 0.0204 33.7 1.1140 0.0539 25.4 1.3300 0.1416 17.0 1.0430 0.0209 33.5 1.1160 0.0548 25.2 1.3500 0.1489 16.5 1.0440 0.0214 33.3 1.1180 0.0557 25.1 1.3600 0.1525 16.3 1.0450 0.0224 33.0 1.1250 0.0589 24.6 1.3800 0.1597 15.	1.0300	0.0148	36.6	1.0940	0.0449	27.0	1.2500	0.1111	19.1
1.0350 0.0170 35.3 1.1000 0.0476 26.4 1.2800 0.1228 18.2 1.0360 0.0178 35.0 1.1060 0.0503 26.0 1.2900 0.1266 18.0 1.0370 0.0182 34.8 1.1080 0.0512 25.8 1.3000 0.1304 17.7 1.0400 0.0195 34.2 1.1110 0.0521 25.7 1.3100 0.1342 17.5 1.0420 0.0204 33.7 1.1140 0.0539 25.4 1.3300 0.1416 17.0 1.0430 0.0209 33.5 1.1160 0.0548 25.2 1.3500 0.1489 16.5 1.0440 0.0214 33.3 1.1180 0.0557 25.1 1.3600 0.1525 16.3 1.0450 0.0219 33.2 1.1220 0.0575 24.8 1.3700 0.1561 16.1 1.0460 0.0224 33.0 1.1250 0.0589 24.6 1.3800 0.1597 15.	1.0310	0.0151	36.3	1.0960	0.0458	26.8	1.2600	0.1150	18.8
1.0360 0.0178 35.0 1.1060 0.0503 26.0 1.2900 0.1266 18.0 1.0370 0.0182 34.8 1.1080 0.0512 25.8 1.3000 0.1304 17.7 1.0400 0.0195 34.2 1.1110 0.0521 25.7 1.3100 0.1342 17.5 1.0420 0.0204 33.7 1.1140 0.0539 25.4 1.3300 0.1416 17.0 1.0430 0.0209 33.5 1.1160 0.0548 25.2 1.3500 0.1489 16.5 1.0440 0.0214 33.3 1.1180 0.0557 25.1 1.3600 0.1525 16.3 1.0450 0.0219 33.2 1.1220 0.0575 24.8 1.3700 0.1561 16.1 1.0460 0.0224 33.0 1.1250 0.0589 24.6 1.3800 0.1597 15.9 1.0490 0.0234 32.4 1.1300 0.0610 24.3 1.3901 0.1632 15.	1.0320	0.0159	36.0	1.0980	0.0466	26.6	1.2700	0.1189	18.5
1.0370 0.0182 34.8 1.1080 0.0512 25.8 1.3000 0.1304 17.7 1.0400 0.0195 34.2 1.1110 0.0521 25.7 1.3100 0.1342 17.5 1.0420 0.0204 33.7 1.1140 0.0539 25.4 1.3300 0.1416 17.0 1.0430 0.0209 33.5 1.1160 0.0548 25.2 1.3500 0.1489 16.5 1.0440 0.0214 33.3 1.1180 0.0557 25.1 1.3600 0.1525 16.3 1.0450 0.0219 33.2 1.1220 0.0575 24.8 1.3700 0.1561 16.1 1.0460 0.0224 33.0 1.1250 0.0589 24.6 1.3800 0.1597 15.9 1.0490 0.0234 32.4 1.1300 0.0610 24.3 1.3901 0.1632 15.8	1.0350	0.0170	35.3	1.1000	0.0476	26.4	1.2800	0.1228	18.2
1.0400 0.0195 34.2 1.1110 0.0521 25.7 1.3100 0.1342 17.5 1.0420 0.0204 33.7 1.1140 0.0539 25.4 1.3300 0.1416 17.0 1.0430 0.0209 33.5 1.1160 0.0548 25.2 1.3500 0.1489 16.5 1.0440 0.0214 33.3 1.1180 0.0557 25.1 1.3600 0.1525 16.3 1.0450 0.0219 33.2 1.1220 0.0575 24.8 1.3700 0.1561 16.1 1.0460 0.0224 33.0 1.1250 0.0589 24.6 1.3800 0.1597 15.9 1.0490 0.0234 32.4 1.1300 0.0610 24.3 1.3901 0.1632 15.8	1.0360	0.0178	35.0	1.1060	0.0503	26.0	1.2900	0.1266	18.0
1.0420 0.0204 33.7 1.1140 0.0539 25.4 1.3300 0.1416 17.0 1.0430 0.0209 33.5 1.1160 0.0548 25.2 1.3500 0.1489 16.5 1.0440 0.0214 33.3 1.1180 0.0557 25.1 1.3600 0.1525 16.3 1.0450 0.0219 33.2 1.1220 0.0575 24.8 1.3700 0.1561 16.1 1.0460 0.0224 33.0 1.1250 0.0589 24.6 1.3800 0.1597 15.9 1.0490 0.0234 32.4 1.1300 0.0610 24.3 1.3901 0.1632 15.8	1.0370	0.0182	34.8	1.1080	0.0512	25.8	1.3000	0.1304	17.7
1.0430 0.0209 33.5 1.1160 0.0548 25.2 1.3500 0.1489 16.5 1.0440 0.0214 33.3 1.1180 0.0557 25.1 1.3600 0.1525 16.3 1.0450 0.0219 33.2 1.1220 0.0575 24.8 1.3700 0.1561 16.1 1.0460 0.0224 33.0 1.1250 0.0589 24.6 1.3800 0.1597 15.9 1.0490 0.0234 32.4 1.1300 0.0610 24.3 1.3901 0.1632 15.8	1.0400	0.0195	34.2	1.1110	0.0521	25.7	1.3100	0.1342	17.5
1.0440 0.0214 33.3 1.1180 0.0557 25.1 1.3600 0.1525 16.3 1.0450 0.0219 33.2 1.1220 0.0575 24.8 1.3700 0.1561 16.1 1.0460 0.0224 33.0 1.1250 0.0589 24.6 1.3800 0.1597 15.9 1.0490 0.0234 32.4 1.1300 0.0610 24.3 1.3901 0.1632 15.8	1.0420	0.0204	33.7	1.1140	0.0539	25.4	1.3300	0.1416	17.0
1.0450 0.0219 33.2 1.1220 0.0575 24.8 1.3700 0.1561 16.1 1.0460 0.0224 33.0 1.1250 0.0589 24.6 1.3800 0.1597 15.9 1.0490 0.0234 32.4 1.1300 0.0610 24.3 1.3901 0.1632 15.8	1.0430	0.0209	33.5	1.1160	0.0548	25.2	1.3500	0.1489	16.5
1.0460 0.0224 33.0 1.1250 0.0589 24.6 1.3800 0.1597 15.9 1.0490 0.0234 32.4 1.1300 0.0610 24.3 1.3901 0.1632 15.8	1.0440	0.0214	33.3	1.1180	0.0557	25.1	1.3600	0.1525	16.3
1.0490 0.0234 32.4 1.1300 0.0610 24.3 1.3901 0.1632 15.8	1.0450	0.0219	33.2	1.1220	0.0575	24.8	1.3700	0.1561	16.1
	1.0460	0.0224	33.0	1.1250	0.0589	24.6	1.3800	0.1597	15.9
1.0500 0.0226 32.3 1.1360 0.0637 23.9 1.4000 0.1667 15.6	1.0490	0.0234	32.4	1.1300	0.0610	24.3	1.3901	0.1632	15.8
	1.0500	0.0226	32.3	1.1360	0.0637	23.9	1.4000	0.1667	15.6



Quality & Environmental Management



We, YongJin Elecomm, pursue excellence in customer satisfaction through continuous innovations, which shall result in delivering the best RF Passive products and services.

To enable us to deliver this policy, we improve continuously our processes by monitoring our performance indicators - marketing, planning, R&D, production, quality, sales and service.

Our quality management system is certified as complying ISO 9001, and is constantly updated. All the staff members, employees and interested parties are required to be educated and announced positively to achieve the optimum quality objectives. Personnel who are reponsible for assuring quality are independent and free from manufacturing, cost and schedule pressures.

YongJin Elecomm recognizes that environment protection is a core element of our corporate activities and contantly observes an environment policy to fulfill its social responsibilities through sustainable product development.

Our environment management system is certified in accordance with ISO 14001, confirming that our environment policy is effectively implemented.

YongJin Elecomm also conforms to the legal requirements regarding environment and safety, and sets strict internal standards, which will be subject to permanent update and improvement.

