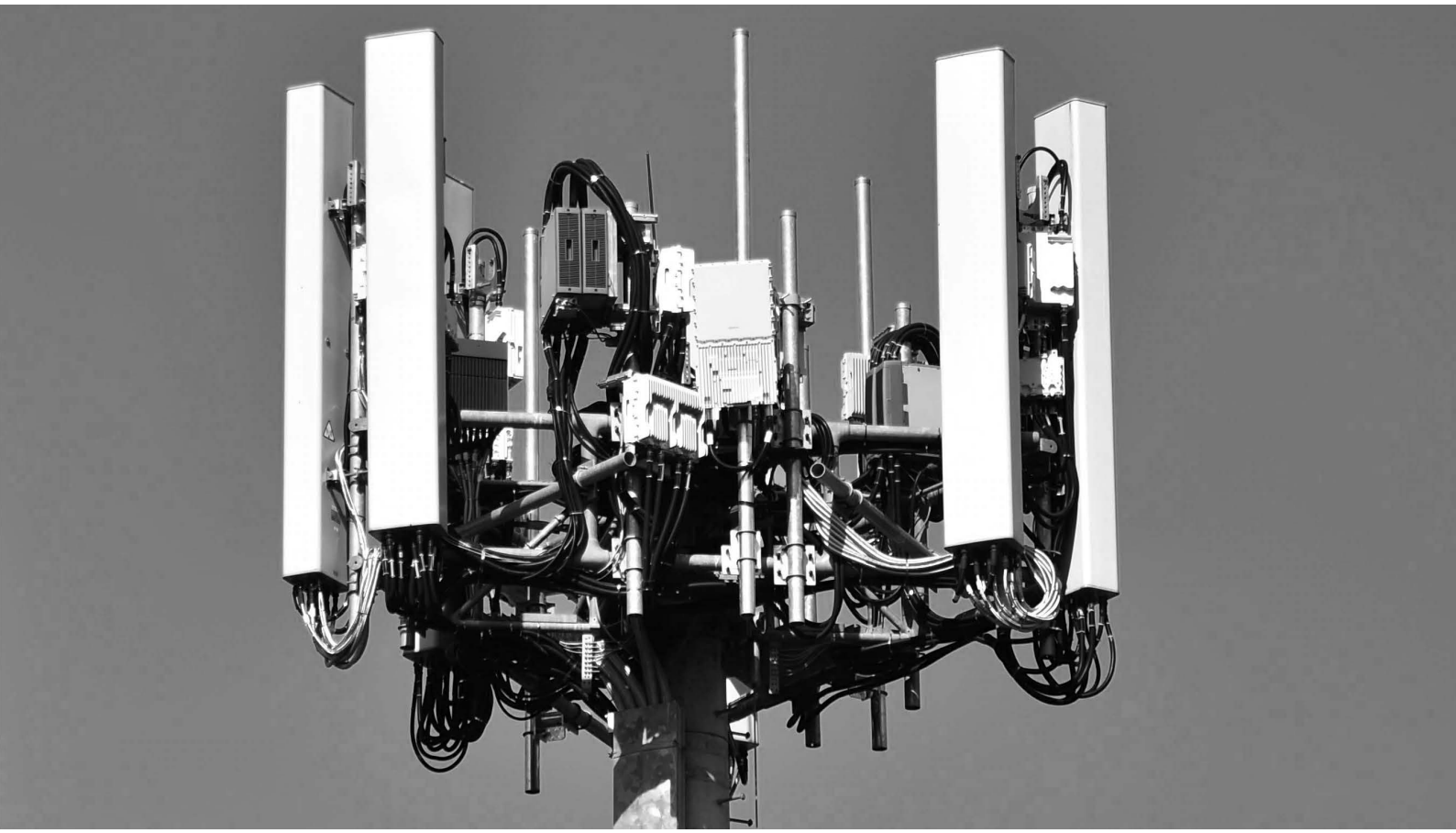

RF & Wireless Interconnect Systems

RF CONNECTORS / ADAPTERS / COMPONENTS

Selection Guide

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TS Connect AB / Power Outlet
Fagerstagatan 9, 163 53 Spånga, Sweden

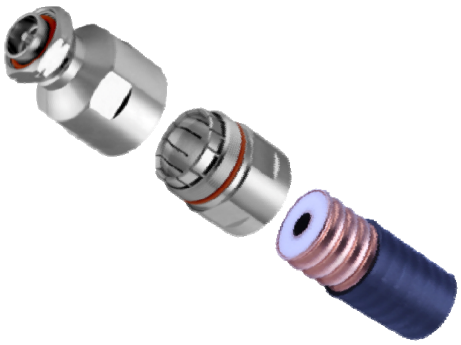
Phone: +46 8 795 93 10
Mail: sales@power-outlet.com

Web: www.power-outlet.com
Web: www.tsconnect.se

RF Connectors for Coaxial Cables

5G *Qualified* / SPEED-FIT Connectors

YJ 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 Gurantee excellent electrical Characteristic and Long Term Reliability.



Connector Series N

N Type Connector is one of the most common RF Connector types for 50 Ohms Impedance Cables. YJ 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 Connector with N Interface is available to deliver optimum Performence, while ensuring easy of Installation

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

Connector Series 7-16DIN

7-16DIN Connector is Designed to have the most rugged RF Connection for use in all cases where a robust and precision connectiona are required. The new SPEED-FIT Connector with 7-16DIN Interface is available to optimum Performence, while ensuring easy Installation.

Connector Series 4.3-10

YJ 4.3-10 Connector is Designed to meet the most demanding requirement of Mobile Network Equipment and at the same time reducing its size supporting the ongoing space reduction requirements. This new Interface offers very low PIM Performence together with weight and compactness advantages.

Cable Supported

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 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.
Smoothwall Coaxial Cable	Comscope FXL Series Acome HPL Series LSC HFASC Series Leoni Flexline

N Connectors for Corrugated Cables

Product Features

- Low VSWR over a Wide Range of Frequencies
- Simple Two-Piece Design for Easier Attachment
- Captive Center Pin and Self Flaring Mechanism ensure fast, accurate and ease of installation
- Pre-Assembled O-Ring Seal provides complete Environmental Resistance
- Tri-Alloy Plated Body improves tarnish Resistant and minimize PIMD Generation

Connector Selection Guide

N Connectors for Super-Flexible Cable

Cable Type	Connector Type	Product Code
1/4" Superflexible Cable	N male Straight Connector	N-P-6DH-xx
	N female Straight Connector	N-J-6DH-xx
	N male Right Angle Connector	N-LP-6DH-xx
3/8" Superflexible Cable	N male Straight Connector	N-P-10DH-xx
	N female Straight Connector	N-J-10DH-xx
	N male Right Angle Connector	N-LP-10DH-xx
1/2" Superflexible Cable	N male Straight Connector	N-P-12DH-xx
	N female Straight Connector	N-J-12DH-xx
	N male Right Angle Connector	N-LP-12DH-xx

N Connectors for Flexible Cable

Cable Type	Connector Type	Product Code
½" Flexible Cable	N male Straight Connector	N-P-12DA-xx
	N female Straight Connector	N-J-12DA-xx
	N male Right Angle Connector	N-LP-12DA-xx
7/8" Flexible Cable	N male Straight Connector	N-P-22DA-xx
	N female Straight Connector	N-J-22DA-xx
1 1/4" Flexible Cable	N male Straight Connector	N-P-33DA-xx
	N female Straight Connector	N-J-33DA-xx
1 5/8" Flexible Cable	N male Straight Connector	N-P-42DA-xx
	N female Straight Connector	N-J-42DA-xx

N Connectors for Corrugated Cables

Technical Data

Electrical		
Frequency range	DC~3.9GHz	
Nom. Impedance	50 Ohm	
VSWR	0.0~1.0GHz: ≤ 1.04 1.0~3.9GHz: ≤ 1.2, Interface Only	Except connector types for 1 1/4" & 1 5/8" cables
3rd Order IM Product	≤ -150dBc	@ 2 x 20Watts

Materials		
Center contact	Male: Brass, Female, BeCu	
Outer contact	Brass	
Insulation	PTFE	
Gasket	Silicone rubber	
Plating	Outer: Tri-Alloy Inner: Silver	
Other metal parts	Nickel	

Mechanical / Environmental		
Mating operation	Typ. 500 operations	Interface only
Waterproof level	IP67	IEC60529, mated pair
Salt mist	Duration of spraying 48 h	KSD9052
Operating temp..	-30℃ to +60℃	

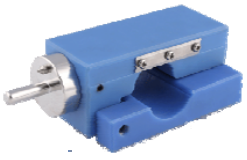
These characteristics are typical and may not apply to all connectors.
For more information please consult with TS Connect AB / Power Outlet.

For more Details, please refer to Page 33

Install Tools

Cable trimming tool for 3/8" cable

Cable trimming tool for 1/2" cable



Cable trimming tool for 7/8" cable

Cable trimming tool for 1 1/4" cable

Cable trimming tool for 1 5/8" cable

Cable flaring tools

7-16DIN Connectors for Corrugated Cablesr

Product Features

- Low IMD and low VSWR provides Improved System Performance
- Simple Two-Piece Design for Easier Attachment
- Captive Center Pin and Self Flaring Mechanism ensure fast, accurate and ease of Installation
- Pre-Assembled O-Ring Seal provides complete Environmental Resistance
- Tri-Alloy Plated Body improves Tarnish Resistant and minimize PIMD Generation

Connector Selection Guide

7-16DIN Connectors for Super-Flexible Cable

Cable Type	Connector Type	Product Code
1/4" Superflexible Cable	7-16DIN male Straight Connector	D-P-6DH-xx
	7-16DIN female Straight Connector	D-J-6DH-xx
	7-16DIN male Right Angle Connector	D-LP-6DH-xx
3/8" Superflexible Cable	7-16DIN male Straight Connector	D-P-1D0H-xx
	7-16DIN female Straight Connector	D-J-10DH-xx
	7-16DIN male Right Angle Connector	D-LP-10DH-xx
1/2" Superflexible Cable	7-16DIN male Straight Connector	D-P-12DH-xx
	7-16DIN female Straight Connector	D-J-12DH-xx
	7-16DIN male Right Angle Connector	D-LP-12DH-xx

7-16DIN Connectors for Flexible Cable

Cable Type	Connector Type	Product Code
½" Flexible Cable	7-16DIN male Straight Connector	D-P-12DA-xx
	7-16DIN female Straight Connector	D-J-12DA-xx
	7-16DIN male Right Angle Connector	D-LP-12DA-xx
7/8" Flexible Cable	7-16DIN male Straight Connector	D-P-22DA-xx
	7-16DIN female Straight Connector	D-J-22DA-xx
1 1/4" Flexible Cable	7-16DIN male Straight Connector	D-P-33DA-xx
	7-16DIN female Straight Connector	D-J-33DA-xx
1 5/8" Flexible Cable	7-16DIN male Straight Connector	D-P-42DA-xx
	7-16DIN female Straight Connector	D-J-42DA-xx

7-16DIN Connectors for Corrugated Cables

Technical Data

Electrical		
Frequency range	DC~3.9GHz	
Nom. Impedance	50 Ohm	
VSWR	0.0~1.0GHz: ≤ 1.04 1.0~3.9GHz: ≤ 1.2, Interface Only	Except connector types for 1 1/4" & 1 5/8" cables
3rd Order IM Product	≤ -155dBc	@ 2 x 20Watts

Materials		
Center contact	Male: Brass, Female: BeCu	
Outer contact	Brass	
Insulation	PTFE	
Gasket	Silicone rubber	
Plating	Outer: Tri-Alloy Inner: Silver	
Other metal parts	Nickel	

Mechanical / Environmental		
Mating operation	Typ. 500 Operations	Interface only
Waterproof level	IP67	IEC60529, mated pair
Salt mist	Duration of spraying 48 h	KSD9052
Operating temp..	-30℃ to +60℃	

These characteristics are typical and may not apply to all connectors.
For more information please consult with TS Connect AB / Power Outlet.

Install Tools

For More Details, please refer to page 33

Cable trimming tool for 3/8" cable

Cable trimming tool for 1/2" cable

Cable trimming tool for 7/8" cable

Cable trimming tool for 1 1/4" cable

Cable trimming tool for 1 5/8" cable

Cable flaring tools

4.3-10 Connectors for Corrugated Cables

Product Features

- **Space and weight saving construction**:
  - More Antenna Connection in tighter space
  - Enable High Density Interface Module Design
- New state-of-the-art Interface Design provides very Low Passive Intermodulation and VSWR
- Simple Two-Piece Design for easier attachment
- Pre-Assembled O-Ring Seal provides complete Environmental Resistance
- Tri-Alloy Plated Body improves Tarnish Resistant and minimize PIMD Generation

Connector Selection Guide

4.3-10 Connectors for Super-Flexible Cable

Cable Type	Connector Type	Product Code
1/4" Superflexible Cable	4.3-10 male Straight Connector	43-P-6DH-xx
	4.3-10 female Straight Connector	43-J-6DH-xx
	4.3-10 male Right Angle Connector	43-LP-6DH-xx
3/8" Superflexible Cable	4.3-10 male Straight Connector	43-P-10DH-xx
	4.3-10 female Straight Connector	43-J-10DH-xx
	4.3-10 male Right Angle Connector	43-LP-10DH-xx
1/2" Superflexible Cable	4.3-10 male Straight Connector	43-P-12DH-xx
	4.3-10 female Straight Connector	43-J-12DH-xx
	4.3-10 male Right Angle Connector	43-LP-12DH-xx

4.3-10 Connectors for Flexible Cable

Cable Type	Connector Type	Product Code
½" Flexible Cable	4.3-10 male Straight Connector	43-P-12DA-xx
	4.3-10 female Straight Connector	43-J-12DA-xx
	4.3-10 male Right Angle Connector	43-LP-12DA-xx
7/8" Flexible Cable	4.3-10 male Straight Connector	43-P-22DA-xx
	4.3-10 female Straight Connector	43-J-22DA-xx
1 1/4" Flexible Cable	4.3-10 male Straight Connector	43-P-33DA-xx
	4.3-10 female Straight Connector	43-J-33DA-xx
1 5/8" Flexible Cable	4.3-10 male Straight Connector	43-P-42DA-xx
	4.3-10 female Straight Connector	43-J-42DA-xx

4.3-10 Connectors for Corrugated Cables

Technical Data

Electrical		
Frequency range	DC~3.9GHz	
Nom. Impedance	50 Ohm	
VSWR	0.0~1.0GHz: ≤ 1.04 1.0~3.9GHz: ≤ 1.2, Interface only	Except connector types for 1 1/4" & 1 5/8" cables
3rd Order IM Product	≤ -155dBc	@ 2 x 20Watts

Materials		
Center contact	Male: Brass, Female: BeCu	
Outer contact	Brass	
Insulation	PTFE	
Gasket	Silicone rubber	
Plating	Outer: Tri-Alloy Inner: Silver	
Other metal parts	Nickel	

Mechanical / Environmental		
Mating operation	Typ. 100 Operations	Interface only
Waterproof level	IP67	IEC60529, mated pair
Salt mist	Duration of spraying 48 h	KSD9052
Operating temp..	-30℃ to +60℃	

These characteristics are typical and may not apply to all connectors.
For more information please consult with TS Connect AB / Power Outlet.

For More Details, Please refer to Page 33

Install Tools

Cable trimming tool for 3/8" cable

Cable trimming tool for 1/2" cable

Cable trimming tool for 7/8" cable

Cable trimming tool for 1 1/4" cable

Cable trimming tool for 1 5/8" cable

Cable flaring tools

N Connectors for Smoothwall Cables

Product Features

- Low VSWR over a Wide Range of Frequencies
- Simple Two-Piece Design for Easier Attachment
- Threaded Coupling Mechanism, Ideal for Vibration Resistance
- Pre-Assembled O-Ring Seal provides Complete Environmental Resistance
- Tri-Alloy Plated Body improves Tarnish Resistant and Minimize PIMD Generation

Connector Selection Guide

Cable Type	Connector Type	Product Code
2/5" Smoothwall Cable	N male Straight Connector	N-P-10D-SWT-xx
	N female Straight Connector	N-J-10D-SWT-xx
1/2" Smoothwall Cable	N male Straight Connector	N-P-12D-SWT-xx
	N female Straight Connector	N-J-12D-SWT-xx

Technical Data

Electrical		
Frequency range	DC~3.9GHz	
Nom. Impedance	50 Ohm	
VSWR	0.0~1.0GHz: ≤ 1.065 1.0~3.9GHz: ≤ 1.2	Interface only
3rd Order IM Product	≤ -150dBc	@ 2 x 20Watts

Materials		
Center contact	Male: Brass Female: BeCu	
Outer contact	Brass	
Insulation	PTFE	
Gasket	Silicone rubber	
Plating	Outer: Tri-Alloy Inner: Silver	
Other metal parts	Nickel	

Mechanical / Environmental		
Mating operation	Typ. 500 Operations	Interface only
Waterproof level	IP67	IEC60529, mated pair
Salt mist	Duration of spraying 48 h	KSD9052
Operating temp..	-30℃ to 60℃	

7-16DIN Connectors for Smoothwall Cables

Product Features

- Low VSWR over a Wide Range of Frequencies Simple Two-Piece Design for easier Attachment
- Threaded Coupling Mechanism, Ideal for Vibration Resistance
- Pre-Assembled O Ring Seal provides compp environmental resistance
- Tri-Alloy Plated Body Improves Tarnish Resistant and Minimize PIMD Generation

Connector Selection Guide

ight Connector

Cable Type	Connector Type	Product Code
2/5" Smoothwall Cable	7-16DIN male Straight Connector	D-P-10D-SWT-xx
	7-16DIN female Straight Connector	D-J-10D-SWT-xx
1/2" Smoothwall Cable	7-16DIN male Straight Connector	D-P-12D-SWT-xx
	7-16DIN female Straight Connector	D-J-12D-SWT-xx

Technical Data

Electrical		
Frequency range	DC~3.9GHz	
Nom. Impedance	50 Ohm	
VSWR	0.0~1.0GHz: ≤ 1.065 1.0~3.9GHz: ≤ 1.2	Interface only
3rd Order IM Product	≤ -155dBc	@ 2 x 20Watts

Materials		
Center contact	Male: Brass Female: BeCu	
Outer contact	Brass	
Insulation	PTFE	
Gasket	Silicone rubber	
Plating	Outer: Tri-Alloy Inner: Silver	
Other metal parts	Nickel	

Mechanical / Environmental		
Mating operation	Typ. 500 Operations	Interface only
Waterproof level	IP67	IEC60529, mated pair
Salt mist	Duration of spraying 48 h	KSD9052
Operating temp..	-30℃ to +60℃	

4.3-10 Connectors for Smothwall Cables

Product Features

- Space and Weight Saving Construction:
  - More Antenna Connection in tighter space
  - Enable High Density Interface Module Design
- New state-of-the-art Interface Design provides very Low Passive Intermodulation and VSWR
- Simple Two-Piece Design for Easier Attachment
- Tri-Alloy Plated Body improves Tarnish Resistant

Connector Selection Guide

Cable Type	Connector Type	Product Code
2/5" Smoothwall Cable	4.3-10 male Straight Connector	43-P-10D-SWT-xx
	4.3-10 female Straight Connector	43-J-10D-SWT-xx
1/2" Smoothwall Cable	4.3-10 male Straight Connector	43-P-12D-SWT-xx
	4.3-10 female Straight Connector	43-J-12D-SWT-xx

Technical Data

Electrical		
Frequency range	DC~3.9GHz	
Nom. Impedance	50 Ohm	
VSWR	0.0~1.0GHz: ≤ 1.0655 1.0~3.9GHz: ≤ 1.2	Interface only
3rd Order IM Product	≤ -155dBc	@ 2 x 20Watts

Materials		
Center contact	Male: Brass Female: BeCu	
Outer contact	Brass	
Insulation	PTFE	
Gasket	Silicone rubber	
Plating	Outer: Tri-Alloy Inner: Silver	
Other metal parts	Nickel	

Mechanical / Environmental		
Mating operation	Typ. 100 Operations	Interface only
Waterproof level	IP67	IEC60529, mated pair
Salt mist	Duration of spraying 48 h	KSD9052
Operating temp..	-30℃ to +60℃	

RF Connectors for Braided Cables

YJ Elecomm offers a full complement of RF Coaxial Connectors from SMA used on Celluar Subscriber units to Low Intermodulation 7-16DIN Connectors used on Celluar Base-Stations. Designed to Accomodate a large variety of RF and Industry Standard Cables.
These Connectors are available in Solder-Crimp, Solder-Clamp, Captive-Crimp, Captive-Clamp and other Cable attachments 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

7-16 DIN Connectors

BNC Connectors

SMA Connectors

Cables Supported

LMR / RG Type Cables	Foam or Solid Dielectric Braided Cables LMR 195, 200, 300, 400..., RG174, 179, 316, 400…
Semi-Rigid Cables	Solid Teflon Dielectric Cables / Prefoamed or Straight CU & Al Jacket 034, 047, 085, 141, 250
Semi-Flex Cables	Solid Teflon Dielectric / Tin dipped Hand-Formable Cables & etc 047, 085, 141, 250

RF Coaxial Adapters

The Adapters are used to join two Incompatible Interfaces and provide a transition from one Connector Series to another.
The main functional purpose of the adapter is to Transmit Signals with High Frequencies. Therefore it is very Important to have Constructions and Materials which ensure specified Transmission Characteristics and Long Term durability.
YJ Elecomm Designs and Manufacturers Extremely Rugged RF/Microwave Coaxial adapters and are used in a wide array of Wireless Communication, Antenna Devices,Test Equiments and so on.

Product Features

- Broadband Characteristics (DC~3900MHz)
- Superior PIM Performance
- Low VSWR over the entire Frequency Range
- Weatherproof to satisfy Class IP67 (Mated Pair)
- Complete Product Range - Available for various Connector Combinations

Technical Data

Electrical		
Frequency range	DC~3.9GHz	
Nom. Impedance	50 Ohm	
VSWR	0.0~1.0GHz: ≤ 1.04, 1.0~3.9GHz: ≤ 1.15	Interface only
3rd Order IM Product	≤ -155dBc	@ 2 x 20Watts

Materials		
Center contact	Male: Brass Female: BeCu	
Outer contact	Brass	
Insulation	PTFE	
Gasket	Silicone rubber	
Plating	Outer: Tri-Alloy Inner: Silver	
Other metal parts	Nickel	

Mechanical / Environmental		
Mating operation	Typ. 500 Operations	Interface only
Waterproof level	IP67	IEC60529, mated pair
Salt mist	Duration of spraying 48 h	KSD9052
Operating temp..	-30℃ to +60℃	

Adapters Selection Guide

 N Female to N Female DC~3.9GHz, In-Series	 N Male to N Female DC~3.9GHz, In-Series	 N Male to N Male DC~3.9GHz, In-Series
 N Male to N Female R/A DC~3.9GHz, In-Series	 7-16 DIN Female to 7-16 DIN Female DC~3.9GHz, In-Series	 7-16 DIN Male to 7-16 DIN Male DC~3.9GHz, In-Series
 7-16 DIN Male to 7-16 DIN Female R/A DC~3.9GHz, In-Series	 7-16 DIN Female to N Female DC~3.9GHz, Between Series	 7-16 DIN Female to N Male DC~3.9GHz, Between Series
 7-16 DIN Male to N Male DC~3.9GHz, Between Series	 7-16 DIN Male to N Female DC~3.9GHz, Between Series	 4.3-10 Female to 7-16 DIN Male DC~3.9GHz, Between Series
 4.3-10 Male to 7-16 DIN Female DC~3.9GHz, Between Series	 4.3-10 Male to 7-16 DIN Male DC~3.9GHz, Between Series	 4.3-10 Female to 7-16 DIN Female DC~3.9GHz, Between Series

Lightning Protectors

The Lightning Protection of Base Stations is very important for Critical Sensitive Equipments.
YJ offers a complete Series of Lightning Protectors using Coaxial Technology for N, 7-16 DIN and 4.3-10 Connector Systems, including λ/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 of Protector can be used for Broadband applications up to 3GHz.
The gas Capsules are Replaceable and can be ordered separately.

- Broadband Performance from 0~3900MHz
- Low VSWR up to 3900MHz
- Field Replaceable Gas Discharge Tube
- DC Pass Capability

AG-NFNF Series

AG-DFDF Series

General Specifications

RF Performance

Type	N type	7-16 DIN	4.3-10
Nom. Impedance	50 Ohm		
Frequency range	DC to 3.9GHz	DC to 3.9GHz	DC to 3.9GHz
Insertion Loss	≤0.1dB	≤0.1dB	≤0.1dB
Return Loss	≥20 dB	≥20 dB	≥20 dB
Temperature range	-45℃ to +85℃	-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 @8/20μs	10KA	10KA	10KA	10KA	10KA	10KA	10KA
Max. RF Watts	35	95	240	550	1000	1500	1900

Surge Arrestors Numbering System

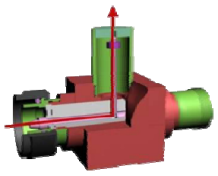
Product Type	Interface Type	Product Code	Remarks
Gas-Tube Surge Arrestor	Bulkhead N female & N male	AG-NFNMB-(*)	* Voltage Code: Insert Voltage Code from Surge Performance Table ex) AG-NFNMB-09: with gas tube 90V
	Bulkhead N female & N female	AG-NFNFB-(*)	
	Bulkhead 7-16 female & 7-16 male	AG-DFDMB-(*)	
	Bulkhead 7-16 female & 7-16 female	AG-DFDFB-(*)	
	Bulkhead 4.3-10 female & 4.3-10 male	AG-43F43MB-(*)	
	Bulkhead 4.3-10 female & 4.3-10 female	AG-43F43FB-(*)	

Custom configurations with special Connector Interface and spark voltages are readily available on request.

Quarter wave shorting stub surge arrestors

The Quarter Wave shorting Tube acts as Bandpass Filter, allowing only specified Frequency Range to pass. Since Quarter Wave Arrestors are Frequency specific, they exhibit Low VSWR and Low Insertion Loss.
The shorting Tube 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, 7-16DIN and 4.3-10 Interfaces**



AT-NMNF Series

AT-NFDFB Series

AT-DMDF Series

General Specifications

Type	N type	7-16 DIN	4.3-10
Nom. Impedance	50 Ohm		
Frequency range	0.8GHz to 3.9GHz	0.8GHz to 3.9GHz	0.8GHz to 3.9GHz
Insertion Loss	≤0.1dB	≤0.1dB	≤0.1dB
VSWR,max	1.2	1.2	1.2
Current handling capability @ 8/20μs	50KA	100KA	50KA
Residual pulse energy @ 4kv 1.2/50μs	10V	10V	10V

Surge Arrestors Numbering System

Surge Arrestor Type	Interface Type	Product Code
Quarter-wave Surge arrestor	Bulkhead N female & N male	AT-NFNMB
	Bulkhead N female & N female	AT-NFNFB
	Bulkhead 7-16 female & 7-16 male	AT-DFDMB
	Bulkhead 7-16 female & 7-16 female	AT-DFDFB
	Bulkhead 7-16 female & N female	AT-DFNFB
	Bulkhead 4.3-10 female & 4.3-10 male	AT-43F43MB
	Bulkhead 4.3-10 female & 4.3-10 female	AT-43F43FB

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

Cable Assemblies

Cable Assemblies are typically used to Connect the Feeder Line to the Transmission Equipment or to the Antenna in Wireless Communication applications.
YJ Elecomms Cable Assemblies are suited for applications requiring Durability, small Bending Radius and Low Attenuation value.
YJ Elecomm 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 up to 3.9GHz Prior to Shipping)
- Designed for Outdoor Applications under Extreme Climatic Conditions
- Waterproof per IP67 Water Immersion Testing
- Available in any Cable Length with a Various Connector Combinations

General Specifications

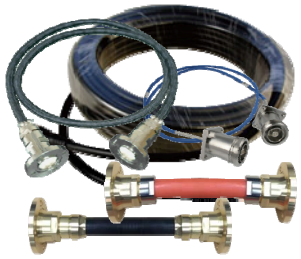
Type	1/4" Superflex	3/8" Superflex	1/2" Superflex	1/2" Regular
Impedance	50 Ohm	50 Ohm	50 Ohm	50 Ohm
Freq. range	DC to 3.9GHz	DC to 3.9GHz	DC to 3.9GHz	DC to 3.9GHz
Connector type	N, 7-16DIN, 4.3-10	N, 7-16DIN, 4.3-10	N, 7-16DIN, 4.3-10	N, 7-16DIN, 4.3-10
Peak power	6KW	13KW	15KW	40KW
Return Loss 0.03 to 1.0GHz 1.0 to 2.2GHz 2.2 to 3GHz	 ≥30dB ≥28dB ≥26dB	 ≥30dB ≥28dB ≥26dB	 ≥30dB ≥28dB ≥26dB	 ≥30dB ≥28dB ≥26dB

Cable Assemblies Numbering Systems

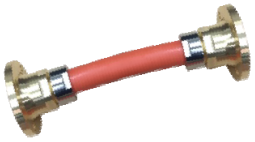
Cable		Connector 1		Connector 2		Length	
1/4" Superflex	**6S**	N male straight	**NM**			1m	**10**
3/8" Superflex	**10S**	N Right Angle male	**NR**	N Right Angle male	**NR**	1.5m	**15**
1/2" Superflex	**12S**	N female straight	**NF**	N female Straight	**NF**	2.0m	**20**
1/2" Regular	**12R**	7-16 male straight	**DM**	7-16 male Straight	**DM**	2.5m	**25**
		7-16 Angle male	**DR**	7-16 Angle male	**DR**	3.0m	**30**
		7-16 female straight	**DF**	7-16 female Straight	**DF**	5.0m	**50**
		4.3-10 male straight	**43M**	4.3-10 female straight	**4.3F**	7.0m	**70**
		4.3-10 Angle male	**43R**	4.3-10 male straight	**4.3M**	Custom Length	

Custom Cable Assemblies

YJ Elecomm provides a wide variety of RF and Microwave Cable Assemblies with specific Custom Designs. Our Custom Assemblies are suited for applications including Wired and Wireless Voice and Data Communications, Benchtop and Automatic Test Equipment, Broadcasting, and Specialized Instrumentation for Factory Automation. Our fully Automated Manufacturing Process offers you the benefits of Competitive 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

1-5/8 to 1-5/8 for 7/8” Cable	1-5/8 to 1-5/8 for 1-1/4” Cable	1-5/8 to 1-5/8, LMR1200-FR
		
1-5/8 to 1-5/8, LMR1200(LLPX)	HN S/T to R/A, RG393 Cable	NMNM, RG218 Cable
EIA-HP-218 Cable 1-5/8 Flange	716DIN-PANEL, SF141	1-5/8 to 1-5/8 R/A Adapter

For more customized cables,please consult with TS Connect AB / Power Outlet
LMR is a registered trademark of Times Microwave System

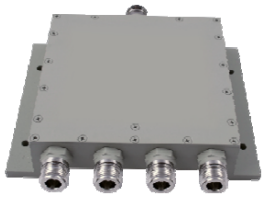
Test Capability

- VSWR (Return Loss)
- Vector Network Analyzer test capability to 40 GHz
- PIM (Passive Intermodulation)
- Phase
- Time Domain
- Hi-Pot / Continuity

Power Dividers

Product Features

- Wideband Characteristics covering all wireles Service Bands
- Outstanding RF Performance, High Isolation, Low insertion loss & Low VSWR
- 2 Way through 12 Way Configurations
- Available with SMA, N ,7-16DIN and 4.3-10 Connector
- Fully Weatherproof Class IP67
- Meets many customer application demands:
  - Unequal Power Divider with Specific Power Split Ratio Specialized Frequency Bands
  - High Isolation, High Power Combining and Weatherproofing alternate Connector Interfaces, Aerial and Rack Mounting, ”Tee”Configuration and Special Coating Material for Housing.



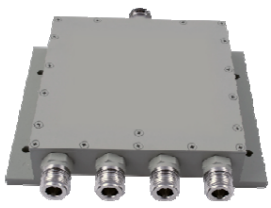
Products by type

 N female, 2way, 20Watts 800~2700MHz	 N female, 3way, 20Watts 800~2700MHz	 N female, 4way, 1Watt 800~2200MHz
 7-16DIN female, 4way, 50Watts 800~2200MHz	 4.3-10 female, 2way, 20Watts 800~2700MHz	 4.3-10 female, 3way, 20Watts 800~2700MHz

Power Dividers Overview

YJE-PD12-0.8-2.7G-NF-020, N female, 2way 20watts, 0.8~2.7GHz		
Dimension; L76 x W54 x H28mm	Frequency	800 ~ 2,700 MHz
	Impedance	Nom.50 Ω
	VSWR	≤1.2
	Max. Input Power	20W
	Max. Loss incld. Divider Loss	≤ 3.5dB
	Isolation	≥ 20dB
	Divider Output	Equal split (1:1)
	Compliance	RoHS, IP67

YJE-PD13-0.8-2.7G-NF-020, N female, 3way 20watts, 0.8~2.7GHz		
Dimension; L102 x W76 x H28mm	Frequency	800 ~ 2,700 MHz
	Impedance	Nom.50 Ω
	VSWR	≤1.2
	Max. Input Power	20W
	Max. Loss incld. Divider Loss	≤ 6dB
	Isolation	≥ 20dB
	Divider Output	Equal split (1:1:1)
	Compliance	RoHS, IP67

YJE-PD14-0.8-2.2G-NF-001, N female, 4way 1watt, 0.8~2.2GHz		
 Dimension; L165 x W73 x H31mm	Frequency	800 ~ 2,200 MHz
	Impedance	Nom.50 Ω
	VSWR	≤1.3
	Max. Input Power	1W
	Max. Loss incld. Divider Loss	≤ 7.5dB
	Isolation	≥ 20dB
	Divider Output	Equal split (1:1:1:1)
	Compliance	RoHS, IP67

YJE-PD14-0.8-2.2G-DF-050, 7-16DIN female, 4way 50watts, 0.8~2.2GHz		
Dimension; L154x W148 x H32mm	Frequency	800 ~ 2,200 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.3
	Max. Input Power	50W
	Max. Loss incld. Divider Loss	≤ 7.5dB
	Isolation	≥ 18dB
	Divider Output	Equal split (1:1:1:1)
	Compliance	RoHS, IP67

YJE-PD12-0.8-2.7G-43F-020, 4.3-10 female, 2way 20watts, 0.8~2.7GHz		
Dimension; L66x W68 x H24mm	Frequency	800 ~ 2,700 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max. Input Power	20W
	Max. Loss incld. Divider Loss	≤ 3.5dB
	Isolation	≥ 20dB
	Divider Output	Equal split (1:1)
	Compliance	RoHS, IP67

YJE-PD12-0.8-2.7G-43F-020, 4.3-10 female, 3way 20watts, 0.8~2.7GHz		
Dimension; L108x W109 x H24mm	Frequency	800 ~ 2,700 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max. Input Power	20W
	Max. Loss incld. Divider Loss	≤ 6dB
	Isolation	≥ 20dB
	Divider Output	Equal split (1:1:1)
	Compliance	RoHS, IP67

Power Splitters

Product Features

- Wideband Characteristics Covering all Wireless Service bands
- Very Low Insertion Loss & Low VSWR
- 2Way through 4Way Configurations
- Available with N, 7-16DIN and 4.3-10 Connector
- Fully Weatherproof Class IP67
- Meets many customer application demands;
  - Specialized Frequency Bands, High Power combining and Weatherproofing and Special Coating Material for Housing.

Products by type

N female, 2way, 200Watts 800~3900MHz	N female, 3way, 200Watts 800~3900 MHz	N female, 4way, 200Watts 800~3900MHz
7-16DIN female, 3way, 300Watts 800~3900MHz	7-16DIN female, 4way, 300Watts 800~3900MHz	N female, 2way, 200Watts 800~3900MHz
N female, 3way, 200Watts 800~3900MHz	7-16DIN female, 2way, 300Watts 800~3900MHz	7-16DIN female, 3way, 300Watts 800~3900MHz

Power Splitters Overview

YJE-PS12-0.7-3.9G-NF-200T, N female, 2way 200watts, 0.7~3.9GHz		
	Frequency	700 ~ 3900 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	200W
	Max.Loss incld. divider loss	≤ 3.5dB
	3rd IM Product @ 2 x 20Watts	≤ -150dBc
	Divider Output	Equal split (1:1)
	Compliance	RoHS, IP67

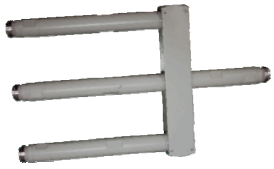
YJE-PS13-0.7-3.9G-NF-200T, N female, 3way 200watts, 0.7~3.9GHz		
	Frequency	700 ~ 3900 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.25
	Max.Input Power	200W
	Max.Loss incld. divider loss	≤ 5.5dB
	3rd IM Product @ 2 x 20Watts	≤ -150dBc
	Divider Output	Equal split (1:1:1)
	Compliance	RoHS, IP67

YJE-PS14-0.7-3.9G-NF-200T, N female, 4way 200watts, 0.7~3.9GHz		
	Frequency	700 ~ 3900 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.3
	Max.Input Power	200W
	Max.Loss incld. divider loss	≤ 6.5dB
	3rd IM Product @ 2 x 20Watts	≤ -150dBc
	Divider Output	Equal split (1:1:1:1)
	Compliance	RoHS, IP67

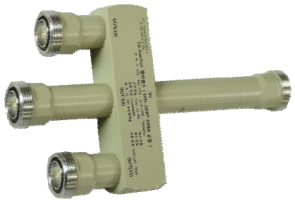
YJE-PS13-0.7-3.9G-DF-300T, 7-16DIN femle, 3way 300watts, 0.7~3.9GHz		
	Frequency	700~ 3900 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.25
	Max.Input Power	300W
	Max.Loss incld. divider loss	≤ 5.5dB
	3rd IM Product @ 2 x 20Watts	≤ -150dBc
	Divider Output	Equal split (1:1:1)
	Compliance	RoHS, IP67

Power Splitters Overview

YJE-PS12-0.7-3.9G-NF-200U, N female, 2way 200watts, 0.7~3.9GHz		
	Frequency	700 ~ 3900 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	200W
	Max.Loss incld. divider loss	≤ 3.5dB
	3rd IM Product @ 2 x 20Watts	≤ -150dBc
	Divider Output	Equal split (1:1)
	Compliance	RoHS, IP67

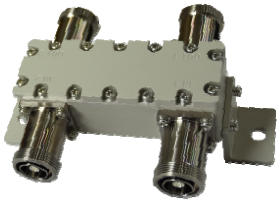
YJE-PS13-0.7-3.9G-NF-200U, N female, 3way 200watts, 0.7~3.9GHz		
	Frequency	700 ~ 3900 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.25
	Max.Input Power	200W
	Max.Loss incld. divider loss	≤ 5.5dB
	3rd IM Product @ 2 x 20Watts	≤ -150dBc
	Divider Output	Equal split (1:1:1)
	Compliance	RoHS, IP67

YJE-PS12-0.7-3.9G-DF-300U, 7-16DIN female, 2way 300watts, 0.7~3.9GHz		
	Frequency	700 ~ 3900 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	200W
	Max.Loss incld. divider loss	≤ 3.5dB
	3rd IM Product @ 2 x 20Watts	≤ -150dBc
	Divider Output	Equal split (1:1)
	Compliance	RoHS, IP67

YJE-PS13-0.7-3.9G-DF-300U, 7-16DIN female, 3way 300watts, 0.7~3.9GHz		
	Frequency	700~ 3900 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.25
	Max.Input Power	300W
	Max.Loss incld. divider loss	≤ 5.5dB
	3rd IM Product @ 2 x 20Watts	≤ -150dBc
	Divider Output	Equal split (1:1:1)
	Compliance	RoHS, IP67

Directional Couplers

Product Features



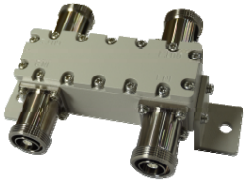
- Wideband Characteristics covering all Wireless Service Bands
- Outstanding RF Performance:
  - High Directivity Low Insertion Loss & Low VSWR
- Standard Coupling Values: 6 / 10 / 15 / 20 / 30dB
- Available with 3dB Hybrid Coupler and Dual Directional Coupler
- Meets many application demands:
  - Specialized Coupling Values, External High Power Terminations, alternate Connector styles and Special Coating Material for Housing

Products by Type

N female, 6dB~30dB, 100Watts
700~2700MHz

4.3-10 female, 6dB~30dB, 200Watts
700~2700MHz

N female, 3dB Hybrid, 100Watts
700~2700MHz



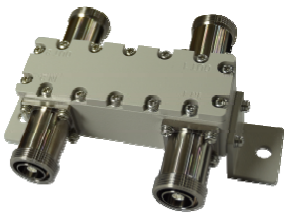
7-16 DIN female, 3dB Hybrid, 250Watts
700~2700MHz

Directional Couplers Overview

YJE-DC-0.7-2.7G-XX-NF-100-S, N female, 6~30dB, 100watts, 0.7~2.7GHz		
	Frequency	700 ~ 2700 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	100W
	Coupling Value	6, 10, 15, 20, 30dB
	Directivity	≥ 20dB
	3rd IM Product @ 2 x 20Watts	≤ -140dBc
	Compliance	RoHS, IP67

YJE-DC-0.7-2.7G-XX-43F-200-S, 4.3-10 female, 6~30dB, 200watts, 0.7~2.7GHz		
	Frequency	700 ~ 2700 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	200W
	Coupling Value	6, 10, 15, 20, 30dB
	Directivity	≥ 20dB
	3rd IM Product @ 2 x 20Watts	≤ -140dBc
	Compliance	RoHS, IP67

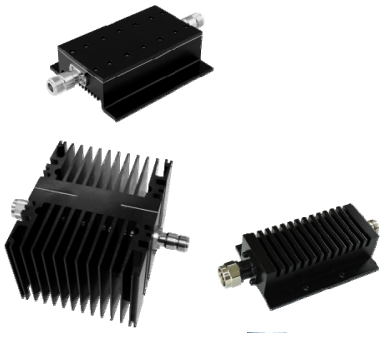
YJE-HC-0.7-2.7G-03-NF-100-4, N female, 3dB Hybrid, 100watts, 0.7~2.7GHz		
	Frequency	700 ~ 2700 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	100W
	Coupling Value	3.0± 0.8dB
	Isolation	≥ 23dB
	3rd IM Product @ 2 x 20Watts	≤ -140dBc
	Compliance	RoHS, IP67

YJE-HC-0.7-2.7G-03-DF-250-4, 7-16DIN female, 3dB Hybrid, 250watts, 0.7~2.7GHz		
	Frequency	700~ 2700 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	250W
	Coupling Value	3.0± 0.8dB
	Isolation	≥ 23dB
	3rd IM Product @ 2 x 20Watts	≤ -140dBc
	Compliance	RoHS, IP67

Attenuators

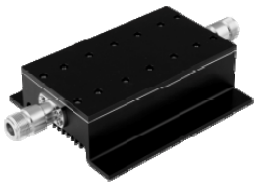
Product Features

- Wideband Characteristics covering all Wireless Service Bands (DC to 3000MHz)
- Low VSWR over the entire Frequency Range
- Standard Coupling Values: 3 / 6 / 10 / 15 / 20 / 30dB
- Fully Weatherproof Class IP67
- Meets many application demands:
  - Specialized Attenuation Values, alternate Connector styles and Special Coating Material for Housing.

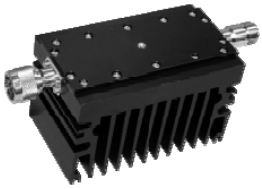


Products by type

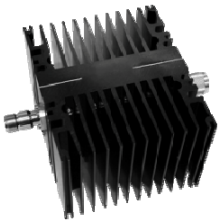
Attenuator, 10Watts, DC~3000MHz
N male to N female Connectors



Attenuator, 25Watts, DC~3000MHz
N female to N female Connectors



Attenuator, 50Watts, DC~3000MHz
N male to N female Connectors

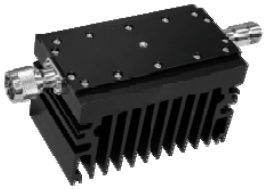


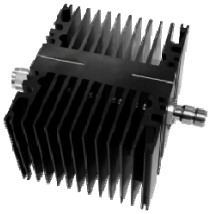
Attenuator, 50Watts, DC~3000MHz,
N male to N female Connectors

Attenuators Overview

YJE-AT-3G-XX-NMNF-010, N male - N female, 3~30dB, 10watts, DC~3GHz		
	Frequency	DC ~ 3000 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	10W
	Attenuation Value	3, 6,10,20,30dB
	Attenuation Tolerance	3,6dB ±0.8dB, 10,20,30dB ±1.3dB
	Compliance	RoHS, IP67

YJE-AT-3G-XX-NFNF-025, N female - N female, 3~30dB, 25watts, DC~3GHz		
	Frequency	DC ~ 3000 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	25W
	Attenuation Value	3, 6, 10, 20, 30dB
	Attenuation Tolerance	3, 6dB ±0.8dB 10, 20, 30dB ±1.3dB
	Compliance	RoHS, IP67

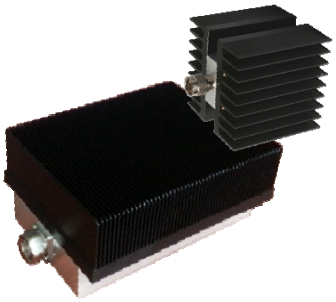
YJE-AT-3G-XX-NMNF-050, N male - N female, 3~30dB, 50watts, DC~3GHz		
	Frequency	DC ~ 3000 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	50W
	Attenuation Value	3, 6, 10, 15, 20, 30dB
	Attenuation Tolerance	3,6dB ±0.8dB 10, 20, 30dB ±1.3dB
	Compliance	RoHS, IP67

YJE-AT-3G-XX-NMNF-100, N male - N female, 3~30dB, 100watts, DC~3GHz		
	Frequency	DC ~ 3000 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	100W
	Attenuation Value	3, 6, 10, 15, 20, 30dB
	Attenuation Tolerance	3, 6dB ±0.8dB 10, 20, 30dB ±1.3dB
	Compliance	RoHS, IP67

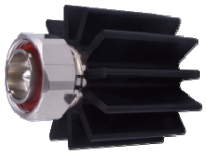
Terminations

Product Features

- Wideband Characteristics Covering all Wireless service bands (DC to 3000MHz)
- Low VSWR over the entire Frequency Range
- Available with N, 7-16DIN and 4.3-10 Connector
- Fully Weatherproof Class IP67

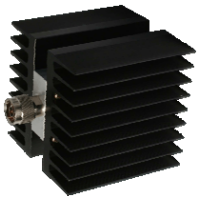


Products by type

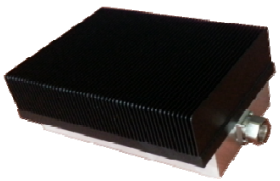


Termination, 30Watts, DC~3000MHz,
7-16DIN male Connector

Termination, 50Watts, DC~3000MHz,
N male Connector



Termination, 100Watts, DC~3000MHz
N male Connector

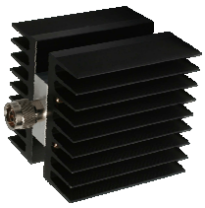


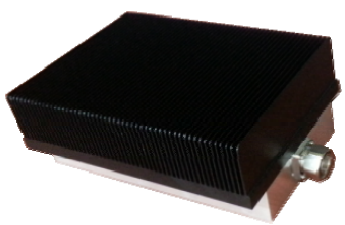
Termination, 300Watts, DC~2700MHz
7-16DIN male Connector

Attenuators Overview

YJE-DL-3G-DM-030, 7-16DIN male, 30Watts, DC~3GHz		
	Frequency	DC ~ 3000 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	30W
	Housing Material	Aluminum-Black Anodize
	Compliance	RoHS, IP67

YJE-DL-3G-NM-050, N male, 50watts, DC~3GHz		
	Frequency	DC ~ 3000 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	50W
	Housing Material	Aluminum-Black Anodize
	Compliance	RoHS, IP67

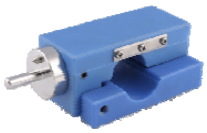
YJE-DL-3G-NM-100, N male, 100watts, DC~3GHz		
	Frequency	DC ~ 3000 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.2
	Max.Input Power	100W
	Housing Material	Aluminum-Black Anodize
	Compliance	RoHS, IP67

YJE-DL-2.7G-DM-300, 7-16DIN male, 300watts, DC~2.7GHz		
	Frequency	DC ~ 2700 MHz
	Impedance	Nom.50 Ω
	VSWR	≤ 1.25
	Max.Input Power	300W
	Housing Material	Aluminum-Black Anodize
	Compliance	RoHS, IP67

Cable Trimming Tools

Connector Attachment is one of the most Important Factors affecting RF Transmision Line Performance. YJ Elecomm 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 exact distance required for easy Connector Attachment which allows to ensure consistent Electrical Performance for your valued applications.

Cable Trimming Tools Overview

Trimming Tools for 1/4” Cable	Trimming Tools for 3/8” Cable	Trimming Tools for 3/8” Cable
Trimming Tools for 3/8” Cable	 Trimming Tools for 3/8” Cable	Trimming Tools for 3/8” Cable
Trimming Tools for 3/8” Cable	Flaring Tools for 1 1/4” Cable	Flaring Tools for 1 5/8” Cable

Product Code	Description	Cable type
CUT-014H-01	Cable trimming tool	1/4”(6DH) superflex cable
CUT-038H-01	Cable trimming tool	3/8”(10DH) superflex cable
CUT-012H-01	Cable trimming tool	1/2”(12DH) superflex cable
CUT-012A-01	Cable trimming tool	1/2” (12DA) regular flex cable
CUT-078A-01	Cable trimming tool	7/8” (12DA) regular flex cable
CUT-114A-01	Cable trimming tool	1 1/4”(33DA) regular flex cable
CUT-158A-01	Cable trimming tool	1 5/8” (42DA) regular flex cable
FLT-078A-01	Cable flaring tool	7/8” (22DA) regular flex cable
FLT-114A-01	Cable flaring tool	1 1/4”(33DA) regular flex cable
FLT-158A-01	Cable flaring tool	1 5/8” (42DA) regular flex cable

Quality & Environment Management

Certificate No. : QMS-K13959

SMR Certificate of Registration

This is to certify that

YONG JIN ELECOMM CO., LTD.
#147, Nae-dong, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea

Has been found to conform to the following standard:
ISO 9001:2008 / KS Q ISO 9001:2009

for the following scope of registration covers
Design, Development, Manufacture, Sale and Services of Communication Connector and Cable Ass'y

Terms of Validity : 1st Oct., 2013 ~ 30th Sept., 2016
Initial Certification Date : 1st Oct., 2007

For the successful Implementation of a Quality Management System, Registered by System Management Registration Co., Ltd.

25th October, 2013

President

ISO 9001:2008

Quality Management

YJ 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 processes by monitoring our performence indicators Marketing, Planning, R&D, Production, Quality, Sales & 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 responsible for assuring Quality are independent and free from manufacturing, cost and schedule pressures.

Environmental Management

We recognizes that environment protection is a core element of our corporate activities and constantly 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.
YJ 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.

Certificate No. : EMS-K13391

SMR Certificate of Registration

This is to certify that

YONG JIN ELECOMM CO., LTD.
#147, Nae-dong, Ojeong-gu, Bucheon-si, Gyeonggi-do, Korea

Has been found to conform to the following standard:
ISO 14001:2004 / KS I ISO 14001:2009

for the following scope of registration covers
Design, Development, Manufacture, Sale and Services of Communication Connector and Cable Ass'y

Terms of Validity : 27th Oct., 2011 ~ 26th Oct., 2014
Initial Certification Date : 27th Oct, 2008

For the successful Implementation of a Environment Management System, Registered by System Management Registration Co., Ltd.

25th October, 2013

President

ISO 14001:2004

TS Connect AB / Power Outlet
Fagerstagatan 9, 163 53 Spånga, Sweden

Phone: +46 8 795 93 10
Mail: sales@power-outlet.com

Web: www.power-outlet.com
Web: www.tsconnect.se