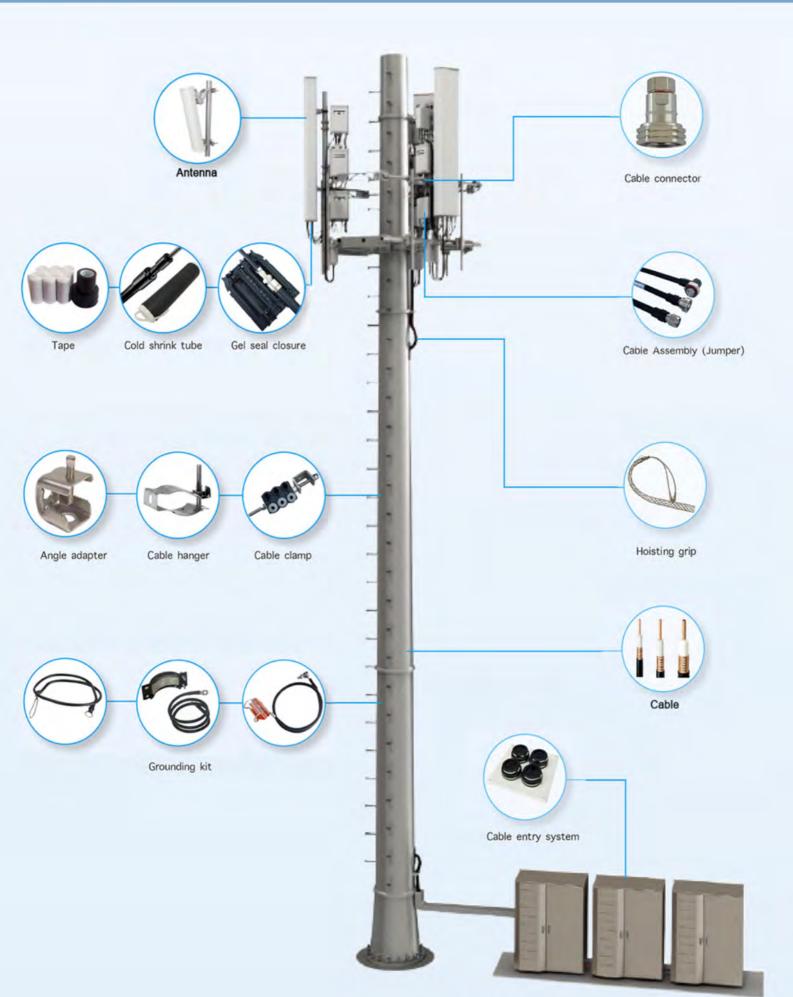
Main Product:



- Weather Proofing Kit
- RF Connector
- Connector Adapter and Dust Cap
- Jumper Cable
- Cable Grounding Kit
- Hoisting Grip
- Cable Clamp and Hanger
- Cable Entry System
- Passive Component
- Antenna

Application Guide



Product Index





Gel Seal Closure

Gel seal closure, is a new kind of weatherproofing kit. This closure contains an innovative gel material and provides an efficient block against moisture & salt mist. Gel seal closures have passed strict tests from labs and achieve good feedback from long-term practical application. The easy of installation and reusable feature makes them a cost-effective solution.



Full sizes of gel seal closures:

Item No.	Product Description.
GSC-12ANT	Gel seal closure for 1/2" jumper cable to antenna.
GSC-12ANT-S	Gel seal closure for 1/2" jumper cable to antenna, short version.
GSC-4310-12	Gel seal closure for 1/2" jumper cable to 4.3-10 connector.
GSC-4195-12	Gel seal closure for 1/2" jumper cable to 4.1-9.5 MINI DIN connector.
GSC-78ANT	Gel seal closure for 7/8" cable to antenna
GSC-7812	Gel seal closure for 1/2" jumper cable to 7/8" feeder.
GSC-11412	Gel seal closure for 1/2" jumper cable to 1-1/4" feeder.
GSC-15812	Gel seal closure for 1/2" jumper cable to 1-5/8" feeder.
GSC-12GROUND	Gel seal closure for 1/2" grounding kit
GSC-78GROUND	Gel seal closure for 7/8" grounding kit
GSC-12SRRU	Gel seal closure for 1/2" super flexible to RRU N connector
GSC-38N	Gel seal closure for 3/8" cable to N connector.

Cold Shrink Tube

Cold shrink tubing is a fast and easy way to weatherproof a connection. Simply position the pre-expanded tubing over the connection that you are protecting and pull the support tube. The tubing compresses to form a weatherproof seal.



Size For Telecom:

Item No.	Diameter before shrink	Length (after full-shrink)	Material	Application
CST-A12-S	45mm	200mm	silicone	1/2// 45 - 554 - 1/2// 45 - 1/2//
CST-A12	53mm	203mm	EPDM	1/2" to antenna, 1/2" to 1/2"
CST-124310-S	40	152	silicone	
CST-124310	45	152	EPDM	1/2" to 4.3-10 or MINI DIN connector
CST-RRU-S	30	152	silicone	1/2" to RRU
CST-1278	53mm	254mm	EPDM	1/21/ 7/01/ 5/01/ 7/01
CST-1278-S	53mm	254mm	silicone	1/2" to 7/8", 5/8" to 7/8"
CST-78ANT	53mm	203mm	EPDM	7/0".
CST-78ANT-S	53mm	203mm	silicone	7/8" to antenna
CST-12158	70mm	330mm	EPDM	1/2" to 1-1/4" or 1-5/8" 5/8" to 1-1/4" or 1-5/8"
CST-12214	80mm	381mm	EPDM	1/2" to 2-1/4", 5/8" to 2-1/4"

Other Size of EPDM Cold Shrink Tube:

Item No.	Inner Dia Of Tube	Length after shrink	Min Cable Diameter	Max Cable Diameter
nem no.	mm	mm	mm	mm
PCS20-6	20	152	7.8	14.3
PCS25-8	25	203	10.1	20.9
PCS25-11	25	280	10.1	20.9
PCS32-10	32	254	13.0	25.4
PCS32-11	32	280	13.0	25.4
PCS35-9	35	230	13.9	30.1
PCS35-11	35	280	13.9	30.1
PCS40-6	40	152	17.5	35.1
PCS40-8	40	203	17.5	35.1
PCS40-10	40	254	17.5	35.1
PCS40-12	40	305	17.5	35.1
PCS40-16	40	406	17.5	35.1
PCS40-18	40	457	17.5	35.1
PCS53-6	53	152	25.0	46.0
PCS53-7	53	178	25.0	46.0
PCS53-8	53	203	25.0	46.0
PCS53-10	53	254	25.0	46.0
PCS53-12	53	305	25.0	46.0
PCS53-18	53	457	25.0	46.0
PCS70-6	70	152	32.2	63.0
PCS70-9	70	230	32.2	63.0
PCS70-12	70	305	32.2	63.0
PCS70-15	70	355	32.2	63.0
PCS70-18	70	457	32.2	63.0
PCS104-9	104	229	42.6	93.7
PCS104-20	104	508	42.6	93.7
PCS120-9	120	229	46.0	114.3
PCS120-24	120	610	46.0	114.3

Item No.	Inner Dia Of Tube	Length after shrink	Min Cable Diameter	Max Cable Diameter
nom no.	mm	mm	mm	mm
SPCS25-2.5	25	63.5	7.3	21.0
SPCS25-7	25	178	7.3	21.0
SPCS25-8	25	203	7.3	21.0
SPCS28-5	28	125	6.0	25.0
SPCS28-5.9	28	150	6.0	25.0
SPCS35-5.5	35	140	10.5	30.0
SPCS35-7	35	178	10.5	30.0
SPCS35-9	35	229	10.5	30.0
SPCS35-10	35	254	10.5	30.0
SPCS35-12	35	305	10.5	30.0
SPCS40-5.5	40	140	11.9	34.0
SPCS40-8	40	203	11.9	34.0
SPCS40-9	40	230	11.9	34.0
SPCS40-10	40	254	11.9	34.0
SPCS40-12	40	305	11.9	34.0
SPCS45-6	45	152	13.5	39.0
SPCS45-8	45	203	13.5	39.0
SPCS45-10	45	254	13.5	39.0
SPCS45-12	45	305	13.5	39
SPCS53-6	53	152	18.2	45
SPCS53-10	53	254	18.2	45
SPCS53-12	53	305	18.2	45
SPCS53-18	53	457	18.2	45
SPCS70-5	70	125	22.4	63
SPCS70-6	70	152	22.4	63
SPCS70-10	70	254	22.4	63
SPCS70-14	70	355	22.4	63
SPCS70-18	70	457	22.4	63
SPCS70-20	70	508	22.4	63

Other Size of Silicon Cold Shrink Tube:

Cold shrink breakouts

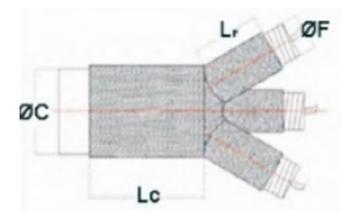
The Cold Shrink Silicone Rubber 3,4,5,6/C (3,4,5,6 conductor) Cable Breakout are a series of open-ended molded silicone rubber sealing assemblies that are factory expanded and mounted on removable inner supporting plastic cores. They are supplied for field installation in a pre-stretched condition. The supporting cores are removed after the seal has been positioned for installation around the breakout area of a 3,4,5,6/C (3,4,5,6 conductor) cable. Core removal allows the silicone rubber to shrink down to a predetermined diameter, creating an environmental enclosure for individual cable phase legs and overall cable jacket.

Features:

- 1.Material: silicone rubber
- 2.Good insulation property
- 3.Nice resistance to tracking and UV radiation
- 4.Hydrophobic and dielectric property
- 5.Nice design of electrical and physical features
- 6.Cold, heat and corona resistance
- 7.Used in polluted and wet environment
- 8.High elastomer, no sharp splash when unforessen destroying
- 9.Used in polluted and wet environment

10.Easy to check and install: Take out the inner parts when installing, no need any fire and special tool

Cold Shrink Breakouts selection table





Weatherproofing

Item No.	Cores No.	ΦC (As Supplied / After Recovery)	Cable Application Ranger	ΦF(As Supplied / After Recovery)	Cable Application Ranger	LF	LC
		mm	mm	mm	mm	mm	mm
SCSB 3-1		65/22 (±2)	24-55	25/9 (±2)	10-19	45	130
SCSB 3-2		56/18 (±2)	20-48	20/8 (±2)	9-14	45	130
SCSB 3-3		79/37 (±2)	38-67	31/15 (±2)	16-26	45	130
SCSB 3-4		87/43 (±2)	45-78	34/16 (±2)	18-29	45	135
SCSB 3-5	3 cores	103/50 (±2)	52-94	39/19 (±2)	22-34	45	150
SCSB 3-6		119/59 (±2)	61-110	46/23 (±2)	25-41	45	165
SCSB 3-7		139/72 (±2)	74-130	58/28 (±2)	30-54	55	180
SCSB 3-8		146/72 (±2)	74-140	65/28 (±2)	30-59	55	180
SCSB 3-9		165/72 (±2)	74-155	69/28 (±2)	30-64	55	180
SCSB 4-1		65/20 (±2)	22-55	20/7 (±2)	8-14	35	126
SCSB 4-2	4	80/29 (±2)	30-70	25/9 (±2)	10-19	40	137
SCSB 4-3	4 cores	88/41 (±2)	42-78	32/11 (±2)	12-26	40	145
SCSB 4-4		119/46 (±2)	47-110	46/16 (±2)	17-41	40	145
SCSB 5-1		79/27 (±2)	28-70	20/7 (±2)	8-14	40	123
SCSB 5-2	5 cores	87/37 (±2)	38-78	25/9 (±2)	10-19	40	134
SCSB 5-3		109/48 (±2)	49-100	35/12 (±2)	13-29	45	138
SCSB 5-4		120/47 (±2)	49-110	40/11 (±2)	13-36	45	138
SCSB 6-1	6 cores	102/35 (±2)	37-94	32/10 (±2)	12-26	60	135

Weatherproofing

Cold Shrink End Caps

Description:

Cold Shrink End Caps SE Series are close-ended, tubular rubber sleeves that are factory expanded and loaded onto a removable core.

When positioned over the end of a cable, or other cylindrical object, the core is removed to provide a reliable environmental seal.

Four different end caps are available to accommodate a wide range of sizes.



Applications

Could Shrink End Caps protect cables, pipes and other cylindrical objects from exposure to moisture, contamination, corrosion, ozone, ultra-violet radiation, physical contact and other environmental hazards.

Features

- 1.Simple and fast installation, no tools required
- 2. Accommodates size ranges from 0.46" -3.32".
- 3. Sealing tight, high rebound even after prolonged years of aging and exposure
- 4. No mastic or tape required.
- 5.No torches or heat required.
- 6. Good abrasion resistance.
- 7. Seals tight, retains resiliency for years.
- 8. Resists fungus.
- 9. Resists acids and alkalis.
- 10. Resists ozone
- 11. Provide sealing protection over multi-core cable ends
- 12.Used to seal cables during installation or storage, protecting cable ends against water and dust

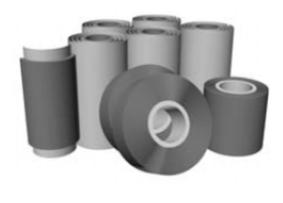
Cold Shrink End Caps selection table

Item No.	Diameter	Use Range/In.	Use Range/mm
CSEC-1	Ø25	0.46 - 0.82	11.6-20.9
CSEC-2	Ø35	0.63 - 1.18	15.9-30.1
CSEC-3	Ø55	1.02 - 1.94	26-49.2
CSEC-4	'Ø95	1.79 - 3.32	45.5-84.3

Weather Proofing Tape----Universal Weather Proof Kit

Universal weatherproofing kit for connectors and splices, include butyl rubber tape and PVC tape. It provides a multi-layer, long-term environmental seal over multiple connections.

Application:	Coax protection
Mount to :	Cables and connectors
Design:	Tape kit for multi-layer wrap
Feature:	Multi-connection protection
Material:	Butyl and Vinyl
	Six rolls of 2-1/2 in butyl rubber tape
Includes:	Two rolls of 3/4 in PVC tape.
	One roll of 2 in PVC tape.



Part No.	Include
	6 rolls butyl rubber tape (600mm x 63.5mm x 1.5mm),
WK-WT-221213-1.5	2 rolls of 3/4" PVC tape (20.12m x 19.05mm x 0.19mm),
	1 roll of 2" PVC tape (6.1m x 50.8mm x0.19mm),
	6 rolls butyl rubber tape (600mm x 63.5mm x 3.175mm),
WK-WT-221213-3.175	2 rolls of 3/4" PVC tape (20.12m x 19.05mm x 0.19mm),
	1 roll of 2" PVC tape (6.1m x 50.8mm x0.19mm),
	6 rolls butyl rubber tape (600mm x 63.5mm x 3.5mm),
WK-WT-221213-3.5	2 rolls of 3/4" PVC tape (20.12m x 19.05mm x 0.19mm),
	1 roll of 2" PVC tape (6.1m x 50.8mm x0.19mm),
	6 rolls butyl rubber tape (600mm x 63.5mm x 4.0mm),
WK-WT-221213-4	2 rolls of 3/4" PVC tape (20.12m x 19.05mm x 0.19mm),
	1 roll of 2" PVC tape (6.1m x 50.8mm x0.19mm),

Other size can be customized according your requirement.

Weather Proofing Tape----Electrical PVC Tape (3/4")

Colorful PVC Backing Insulating Electrical tape provides excellent resistant to abrasion, moisture, alkalis, acids and corrosion. It provides an additional moisture seal for cable connectors. It also prevents loosening of connections from vibration or other external stresses which would eventually allow moisture penetration. The sealed connector is suitable for typical exposed and buried cable applications.



Specification Table:

Part No.	Color:	Size
WT-PVCT-1920.18-BK	Black	19mm*20m*0.18mm
WT-PVCT-1910.18-BK	Black	19mm*10m*0.18mm
WT-PVCT-1920.18-BE	Blue	19mm*20m*0.18mm
WT-PVCT-1910.18-BE	Blue	19mm*10m*0.18mm
WT-PVCT-1920.18-BN	Brown	19mm*20m*0.18mm
WT-PVCT-1910.18-BN	Brown	19mm*10m*0.18mm
WT-PVCT-1920.18-GN	Green	19mm*20m*0.18mm
WT-PVCT-1910.18-GN	Green	19mm*10m*0.18mm
WT-PVCT-1920.18-OE	Orange	19mm*20m*0.18mm
WT-PVCT-1910.18-OE	Orange	19mm*10m*0.18mm
WT-PVCT-1920.18-PE	Purple	19mm*20m*0.18mm
WT-PVCT-1910.18-PE	Purple	19mm*10m*0.18mm
WT-PVCT-1920.18-RD	Red	19mm*20m*0.18mm
WT-PVCT-1910.18-RD	Red	19mm*10m*0.18mm
WT-PVCT-1920.18-WE	White	19mm*20m*0.18mm
WT-PVCT-1910.18-WE	White	19mm*10m*0.18mm
WT-PVCT-1920.18-YW	Yellow	19mm*20m*0.18mm
WT-PVCT-1910.18-YW	Yellow	19mm*10m*0.18mm

Other size can be customized according your requirement.

Weather Proofing Tape----Electrical PVC Tape (2")

Colorful PVC Backing Insulating Electrical tape provides excellent resistant to abrasion, moisture, alkalis, acids and corrosion. It provides an additional moisture seal for cable connectors. It also prevents loosening of connections from vibration or other external stresses which would eventually allow moisture penetration. The sealed connector is suitable for typical exposed and buried cable applications.



Weatherproofing

Part No.	Color:	Size	
WT-PVCT-506.18-BK	Black	50mm*6m*0.18mm	
WT-PVCT-5010.18-BK	Black	50mm*10m*0.18mm	
WT-PVCT-506.18-BE	Blue	50mm*6m*0.18mm	
WT-PVCT-5010.18-BE	Blue	50mm*10m*0.18mm	
WT-PVCT-506.18-BN	Brown	50mm*6m*0.18mm	
WT-PVCT-5010.18-BN	Brown	50mm*10m*0.18mm	
WT-PVCT-506.18-GN	Green	50mm*6m*0.18mm	
WT-PVCT-5010.18-GN	Green	50mm*10m*0.18mm	
WT-PVCT-506.18-OE	Orange	50mm*6m*0.18mm	
WT-PVCT-5010.18-OE	Orange	50mm*10m*0.18mm	
WT-PVCT-506.18-PE	Purple	50mm*6m*0.18mm	
WT-PVCT-5010.18-PE	Purple	50mm*10m*0.18mm	
WT-PVCT-506.18-RD	Red	50mm*6m*0.18mm	
WT-PVCT-5010.18-RD	Red	50mm*10m*0.18mm	
WT-PVCT-506.18-WE	White	50mm*6m*0.18mm	
WT-PVCT-5010.18-WE	White	50mm*10m*0.18mm	
WT-PVCT-506.18-YW	Yellow	50mm*6m*0.18mm	
WT-PVCT-5010.18-YW	Yellow	50mm*10m*0.18mm	

Other size can be customized according your requirement.

Weather Proofing Tape----Butyl Rubber Tape (Mastic)

Butyl Mastic Tape is a high tack, self-fusing butyl rubber mastic ideal for making water and humidity resistant seal, it provides additional moisture seal for cable connections. Butyl Mastic Tape is a high tack sealant with excellent adhesion to cable jackets and other insulating materials. It maintains its tack and flexibility to temperatures as low as 0°F (-18°C), ensuring a high quality seal over a wide range of temperatures.



Specification Table:

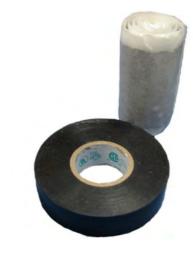
Part No.	Color:	Size
WT-RT-MT63-0.6-3.175	Black	63.5mm x 600mm x3.175mm
WT-RT-MT63-0.6-1.5	Black	63.5mm x 600mm x1.5mm

Other size can be customized according your requirement.

Weather Proofing Tape----Universal Weather Proof Kit

Universal weatherproofing kit for connectors and splices, include butyl rubber tape and PVC tape. It provides a multi-layer, long-term environmental seal over multiple connections.

Application:	Coax protection
Mount to :	Cables and connectors
Design:	Tape kit for mulit-layer wrap
Feature:	Multi-connection protection
Material:	Butyl and Vinyl
Includes:	1 rolls of 2-1/2 in butyl rubber tape
	1 rolls of 3/4 in PVC tape.



Weather Proofing Tape----Rubber Mastic Tape

Rubber mastic tape is a conformable self-fusing rubber electrical insulating and sealing tape. It consists of an ethylene propylene rubber (EPR) backing coated with an aggressive, temperature-stable mastic adhesive. It is designed for electrical insulating and moisture sealing applications. It offers excellent resistance to moisture and ultraviolet exposure and is intended for both indoor and weather exposed outdoor applications.



Part No.	Color:	Size
WT-RT-2228-50-3-1.65	Black	50mm x 3m x1.65mm
WT-RT-2228-38-3-1.65	Black	38mm x 3m x1.65mm

Weather Proofing Tape----Linerless Rubber Splicing Tape

No lining insulation, flame retardant self-adhesive tape, the substrate is ethylene propylene rubber, excellent flame retardant properties. It is applied to the normal temperature of 90°C , and the temperature is 130°C. Short circuit temperature 250. It can be used for the insulation, flame retardant and heat dissipation of the cable terminal and the joint, which has excellent electrical performance and can be applied to 70KV.



Part No.	Color:	Size
WT-SBLL-130C-19-9.14-0.75	Black	19mm x 9.14m x 0.75mm
WT-SBLL-130C-25-9.14-0.75	Black	25mm x 9.14m x 0.75mm
WT-SBLL-130C-38-9.14-0.75	Black	38mm x 9.14m x 0.75mm

Other size can be customized according your requirement.

Weather Proofing Tape---- Self-fusing Rubber Splicing Tape

Rubber Splicing Tape is a highly conformable, self-fusing EPR (Ethylene Propylene Rubber) based, high voltage splicing tape. It is a shelf-stable tape with excellent electrical properties. It can be used as an insulation for low-voltage application as well as an insulation for splices up to 69,000 volts.

- Can be used to splice and terminate cables
- Based on Ethylene Propylene Rubber (EPR)
- Self-fusing tape
- Excellent electrical properties
- A special liner which will not stick to the tape upon unwind



Specification Table:

Part No.	Part No.
WT-SB23-19-5-0.76	19mm x 5M x0.76mm
WT-SB23-25-5-0.76	25mm x 5M x0.76mm
WT-SB23-36-5-0.76	36mm x 5M x0.76mm
WT-SB23-50-5-0.76	50mm x 5M x0.76mm
WT-SB23-19-9-0.76	19mm x 9M x0.76mm
WT-SB23-25-9-0.76	25mm x 9M x0.76mm
WT-SB23-36-9-0.76	36mm x 9M x0.76mm
WT-SB23-50-9-0.76	50mm x 9M x0.76mm
WT-SB23-19-5-0.5	19mm x 5M x0.5mm
WT-SB23-25-5-0.5	25mm x 5M x0.5mm
WT-SB23-36-5-0.5	36mm x 5M x0.5mm
WT-SB23-50-5-0.5	50mm x 5M x0.5mm
WT-SB23-19-9-0.5	19mm x 9M x0.5mm
WT-SB23-25-9-0.5	25mm x 9M x0.5mm
WT-SB23-36-9-0.5	36mm x 9M x0.5mm

Other size can be customized according your requirement.

Weather Proofing Tape----Universal Weather Proof Kit

Part No.	Include	
WK-WT-6C6P	Six rolls of insulation and sealing rubber mastic compound tape (3m*50.8mm*1.65mm) Six rolls of 3/4 in PVC tape (20.12m*19.05mm*0.18mm)	



Cable Connector

2 0

Conector Adapter

Connector Dust Cap

4 Lightning Arrester

DIN 7/16 RF Coaxial Connectors

7/16 (DIN, L29) connector with reliable structure and its performance is extremely stable, is specially designed for outdoor base stations in mobile communication (GSM, CDMA, 3G, 4G) systems, featuring high power, low loss, high operating voltage and perfect waterproof performance and applicable to various environments.

It is easy to install and provides reliable connection.



DIN connector for 1/2" super flexible cable

Part No.	Description	Picture	Drawing
DF-12S	DIN female connector for 1/2" super flexible cable		(50) 50) 50) 50) 50) 50) 50) 50)
DM-12S	DIN male connector for 1/2" super flexible cable		
DM-W-12S	DIN male angle connector for 1/2" super flexible cable		

DIN connector for 1/2" cable:

Part No.	Description	Picture	Drawing
DF-12	DIN female connector for 1/2" cable		(53.8) 99-1 5 200 100
DM-12	DIN male connector for 1/2" cable		
DM-W-12	DIN male angle connector for 1/2" cable		922.3 922.3 (1.66)



DIN connector for 7/8" cable:

Part No.	Description	Picture	Drawing
DF-78	DIN female connector for 7/8" cable		(53)
DM-78	DIN male connector for 7/8" cable		

DIN connector for 1-1/4" cable:

Part No.	Description	Picture	Drawing
DF-114	DIN female connector for 1-1/4" cable		
DM-114	DIN male connector for 1-1/4" cable		

DIN connector for 1-5/8" cable:

Part No.	Description	Picture	Drawing
DF-158	DIN female connector for 1-5/8" cable		
DM-158	DIN male connector for 1-5/8" cable		

N RF Coaxial Connectors

N connector is type of threaded medium and high-power connector, featureing superb bibration resistance, high reliability, and excellent mechanical and electrical performance. It is widely applied to radio equipment, indoor coverage system and outdoor base stations for mobile communication in a vibrating and adverse environment.



N connector for 1/2" super flexible cable:

Part No.	Description	Picture	Drawing
NF-12S	N female connector for 1/2" super flexible cable		55.5 V7-J2016-8/9
NM-12S	N male connector for 1/2" super flexible cable		(19).5) HG HG HG HG HG
NM-W-12S	N male angle connector for 1/2" super flexible cable		

N connector for 1/2" super flexible cable:

Part No.	Description	Picture	Drawing
NF-12	N female connector for 1/2" cable		35.5 V7-43(1)-6-8/9
NM-12	N male connector for 1/2" cable		
NM-W-12	N male angle connector for 1/2" cable		



N connector for 7/8" cable:

Part No.	Description	Picture	Drawing
NF-78	N female connector for 7/8" cable		
NM-78	N male connector for 7/8" cable		

N connector for 1-1/4" cable:

Part No.	Description	Picture	Drawing
NF-114	N female connector for 1-1/4" cable		DA IS TOTAL FILE TOTAL FILE
NM-114	N male connector for 1-1/4" cable		

N connector for 1-5/8" cable:

Part No.	Description	Picture	Drawing
NF-158	N female connector for 1-5/8" cable		
NM-158	N male connector for 1-5/8" cable		

4.3-10 RF Coaxial Connectors

The 4.3-10 connector system is designed to meet the rising performance needs of mobile network equip- ment e.g. to connect the RRU to the antenna. Features of the 4.3-10 Connectors are compact connector sizes, best electrical performance, low PIM and coupling torque as well as the easy installation. Three different coupling mechanisms of the plug connectors screw, quick-lock/push-pull and hand-screw types are mateable with all jack connectors.

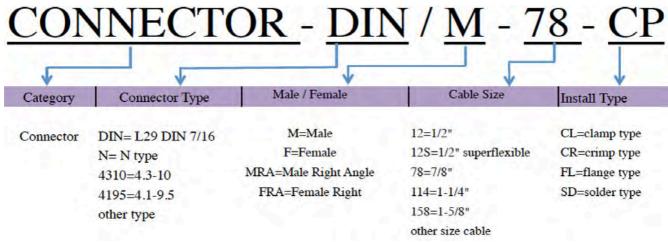


4.3-10 connectors:

Part No.	Description	Picture	Drawing
4312M-12	4.3-10 male connector for 1/2" cable		
4310F-RG141-FG	4.3-10 male fange connector for RG141 cable		
4310M-78	4.3-10 male connector for 7/8" cable		

Other size can be customized according your requirement.

Other Connector Item No.



RF Connectors Adapter

Adapters provide convenient transitions between popular series coaxial connectors. Provides a minimum length consistent with good electrical performance. The small size, low VSWR, and broad frequency coverage permits a wide range of applications. The major application is the test system and operating systems. Material is nickel plated brass, and gold plated brass. The material and plating is to be consistent with the basic connector series. All dielectrics are TFE fluorocarbon. The center contacts are made of beryllium copper, gold plated.



DIN Connector Adapter:

Part No.	Description	Picture	Drawing
DINM-DINM	DIN male to DIN male		10 5 T HOS
DINF-DINF	DIN female to DIN female		11.5 - 11.5 - 7,500 - 99 - 11000

N Connector Adapter:

Part No.	Description	Picture	Drawing
NM-NM	N male to N male		(36. T) (36. T) (36. T) (36. T)
NF-NF	N female to N female		26.8 Rezi6 V7-500102-8/3



DIN to N Connector Adapter:

Part No.	Description	Picture	Drawing
DINM-NM	DIN male to N male		RESOURCE AND ADDRESS OF THE PROPERTY OF THE PR
DINM-NF	DIN male to N female		
DINF-NM	DIN female to N male		MA. A MARKAN AND AND AND AND AND AND AND AND AND A
DINF-NF	DIN female to N female		00.0 2-1972

4.3-10 Connector Adapter:

Part No.	Description	Picture	Drawing
4310M-DINM	4.3-10 male to DIN male		
4310M-DINF	4.3-10 male to DIN female		
4310M-NM	4.3-10 male to N male		
4310M-NF	4.3-10 male to N female		10.0 Transce



Cable Connector / Adapter Dust Cap / Lightning Arrester

Part No.	Description	Picture	Drawing
4310F-DINM	4.3-10 female to DIN male		11 4 Refer
4310F-NF	4.3-10 female to N female		

Any other straight in-line adapter and angle adapter is also available.

Connectors Dust Cap

Dust cap is the perfect solution for protecting your equipment's coaxial connector from dust and water when they are not in use. The chain has a convenient eyelet for a chassis retaining screw. The high quality nickel finish looks great and will provide long service life. We provide many types of dust cap for common coaxial connectors, for example SMA, BNC, TNC, N, 7/16 DIN type connector, and the dust cap can with or without chain. It's easy to install, and while a cable is not plugged in, it's great practice to protect connectors with protective cap to increase the efficiency of device.



Material: Brass with Nick-plated or rubber O-ring: Silicone rubber

DIN Connector Adapter:

Part No.	Description
DCAP-DF-W.C	Dust cap for DIN female connector, with chain
DCAP-DF-W/O.C Dust cap for DIN female connector, without chain	
DCAP-DF-W/O.C-RT	Dust cap for DIN female connector, without chain, Rubber type
DCAP-DM-W.C	Dust cap for DIN male connector, with chain
DCAP-DM-W/O.C	Dust cap for DIN male connector, without chain



N Connector Adapter:

Part No.	Description
DCAP-NF-W.C	Dust cap for N female connector, with chain
DCAP-NF-W/O.C	Dust cap for N female connector, without chain



Other Connector Adapter:

Part No.	Description
DCAP-SMAF	Dust Cap use for SMA female connector with chain/ without chain
DCAP-TNCF	Dust Cap use for TNC female connector with chain/ without chain
DCAP-BNCF	Dust Cap use for BNC female connector with chain/ without chain

Lightning Arrester

Surge arrestors provide excellent lightning protection and outstanding RF performance. All designs have low return loss, low insertion loss and low intermodulation. ERS offers $1/4\lambda$ wavelength type and gas discharge tube.

Features / Benefits

- Outstanding RF Performance
- Complete Weatherproof
- Available with Type N or DIN Interface

$1/4\lambda$ wavelength:



Part No.	Description	Picture	Drawing
LA-14W-DMDF-0825	DIN male to DIN female		55.3 97 H 200 9 H 200
LA-14WGDT-DFDF-0727-B	DIN female to DIN female, 1/4 wave + gas (bulkhead)		
LA-14W-NFNM-2460	N male to N female		
LA-14W-NFNM-0825	4.3-10 female to N female		



Part No.	Description	Picture	Drawing
LA-14W-DMDF-0727	DIN male to DIN female		
LA-14W-DFDF-0727-B	DIN female to DIN female, 1/4 wave + gas (bulkhead)		

Part No.	Description	Picture	Drawing
LA-GDT-NFNF-3G	N female to N female		
LA-GDT-NMNF-3G	N female to N male, 1/4		
LA-GDT-FMFF-500M	F male to F female		



Clip-on grounding kit

Description:

Clip-on ground kits are an advanced type for coaxial cable grounding, providing an easy installation as well as dependable protection of coaxial cable system. The designed clip design and pre-formed strap allow the clip-on ground kits to be easily slipped over the coaxial cable's outer conductor. The latch was optimized to provide a secure fix maximizing performance by ensuring proper contact surface area and pressure.

Material:

Contact: high quality copper strap;

Grounding clamp: per-formed copper strap;

Grounding / earthing cable:16mm2 or 13mm2 BV or BVR copper wire Copper lugs: 16-8, 13-8 tin plated copper lugs to connect to grounding bar Installation accessories: stainless steel 304.



Description	Item No.	Specification.
	GROUND-CO14	Click-on grounding kit for 1/4" coaxial cable
	GROUND-CO38	Click-on grounding kit for 3/8" coaxial cable
Click on grounding kit	GROUND-CO12	Click-on grounding kit for 1/2" coaxial cable
Click-on grounding kit	GROUND-CO78	Click-on grounding kit for 7/8" coaxial cable
	GROUND-CO114	Click-on grounding kit for 1-1/4" coaxial cable
	GROUND-CO158	Click-on grounding kit for 1-5/8" coaxial cable

Framework grounding kit

Description:

Framework grounding kit is compact design for outdoor coaxial cables (corrugated or braid) grounding. With Tinned copper strip & butyl seal, framework grounding kit offers quick installation, good waterproofing.

Material:

- Inner contact: Tin plated copper braid strap.
- Grounding clamp: 304 stainless steel + EPDM rubber plated
- Seal strip: each side has seal strip to ensure water proofing.
- Grounding / earthing cable:16mm2 or 13mm2 BV or BVR copper wire
- Copper lugs: 16-8, 13-8 tin plated copper lugs
- Installation accessories: Inner hex bolts for soon installation.



Description	Item No.	Specification.
	GROUND-FW14	Framework grounding kit for 1/4" coaxial cable
	GROUND-FW38	Framework grounding kit for 3/8" coaxial cable
Fromowork grounding kit	GROUND-FW12	Framework grounding kit for 1/2" coaxial cable
Framework grounding kit	GROUND-FW78	Framework grounding kit for 7/8" coaxial cable
	GROUND-FW114	Framework grounding kit for 1-1/4" coaxial cable
	GROUND-FW158	Framework grounding kit for 1-5/8" coaxial cable

242948 Standard grounding kit for 1/4 in and 3/8 cable

Standard Grounding Kit for 1/4 in and 3/8 in corrugated and braided coaxial cable and elliptical waveguide 240 and 380

Grounding strap material: copper or Tin-plated copper Include: Grounding kit, Hardware, lug, 1 roll PVC tape, 1 roll butyl rubber tape, cable, cable ties Lug type: one hole type Weatherproof Method: Butyl and electric tape



Item No.	Specification.	
GROUND-242948	Standard Grounding Kit for 1/4 in and 3/8 in corrugated & braided coaxial cable	

GK-SUNV Universal Grounding Kit

GK-SUNV Universal Grounding Kit for 1/4 in through 5/8 in corrugated coaxial cable

Grounding strap material: Tin-plated copper Include: Grounding kit, Hardware, lug, 1 roll PVC tape, 1 roll butyl rubber tape, cable, Lug type: one hole type

Weatherproof Method: Butyl and electric tape



Item No.	Specification.
GROUND-GK-SUNV	Universal Grounding Kit for 1/4 in through 5/8 in corrugated coaxial cable

Bolt-on Grounding Kit

Bolt on Grounding Kit for for 3/8 in corrugated and braided coaxial cable . Grounding strap material: Tin-plated copper Include: Grounding kit, Hardware, lug, 1 roll PVC tape, 1 roll butyl rubber tape, cable, Lug type: one hole type Weatherproof Method: Butyl and electric tape



Item No.	Specification.
GROUND-BO	Standard Grounding Kit for 3/8 in corrugated & braided coaxial cable

Copper Strap type Grounding Kits

Copper strap type grounding kit is a original designed grounding kit. With preformed copper strap and copper lugs, installation of this type grounding kit is soon and simple. The universal grounding kit is an innovative grounding design allowing a single grounding kit to accommodate any size of coaxial cable from 1/2" to 3".



Item No.	Specification.	
GROUND-CS	Copper strap type grounding kit for 1/2" to 3" coaxial cable	

Indoor Feeder Cable Grounding Kit

Indoor type grounding is used for indoor 7/8" coaxial cable grounding composed with C copper terminal, stainless steel clamp, colored grounding cable.



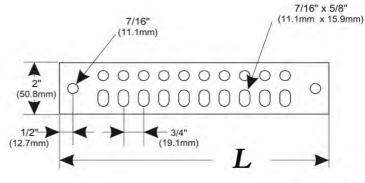
Item No.	Specification.	
GROUND-ID78	Indoor grounding kit for 7/"coaxial cable	

Copper Ground Buss Bars

General Specifications

- Solid 1/4" thick copper buss bars
- Universal hole pattern accepts 2 hole lugs with
- 3/4" and/or 1" spacing
- Custom patterns and hole sizes available
- Application: grounding
- Mounts to: wall or tower
- Material: copper



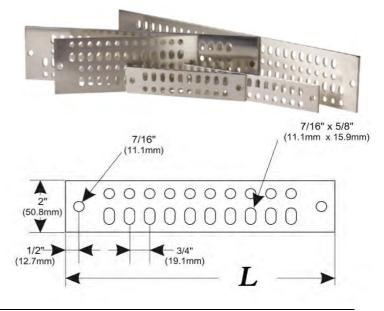


Part No.	Description	Size
GBU-C-1426	copper buss bar	2" x 6"
GBU-C-14210	copper buss bar	2" x 10"
GBU-C-14212	copper buss bar	2" x 12"
GBU-C-14214	copper buss bar	2" x 14"
GBU-C-14412	copper buss bar	4" x 12"
GBU-C-14414	copper buss bar	4" x 14"
GBU-C-14420	copper buss bar	4" x 20"
GBU-C-14424	copper buss bar	4" x 24"

Tinned Copper Ground Buss Bars

General Specifications

- Solid 1/4" thick copper buss bars
- Universal hole pattern accepts 2 hole lugs with
- 3/4" and/or 1" spacing
- Custom patterns and hole sizes available
- Application: grounding
- Mounts to: wall or tower
- Material: tinned copper



Part No.	Description	Size
GBU-CT-1426	Tinned copper buss bar	2" x 6"
GBU-CT-14210	Tinned copper buss bar	2" x 10"
GBU-CT-14212	Tinned copper buss bar	2" x 12"
GBU-CT-14214	Tinned copper buss bar	2" x 14"
GBU-CT-14412	Tinned copper buss bar	4" x 12"
GBU-CT-14414	Tinned copper buss bar	4" x 14"
GBU-CT-14420	Tinned copper buss bar	4" x 20"
GBU-CT-14424	Tinned copper buss bar	4" x 24"

2" x 10"

Part No.	Description	Drawing
GBU-C-14210	Ground Buss Bar, 1/4" x 2" x 10" (6.4 mm x 50.8 mm x 254.0 mm), hardware not included	it minut
GBU-CT-14210	Tinned Ground Buss Bar, 1/4" x 2" x 10" (6.4 mm x 50.8 mm x 254.0 mm), hardware not included	7/16" x 5/8" (11.1mm x 15.9mm) (11.1mm x 15.9mm) (12.1mm) (12.1mm) (12.1mm) (12.1mm) (12.1mm) (12.1mm) (12.1mm) (12.1mm) (12.1mm) (12.1mm) (13.1mm)

2" x 14"

Part No.	Description	Drawing
GBU-C-14214	Ground Buss Bar, 1/4" x 2" x 14" (6.4 mm x 50.8 mm x 355.6 mm), hardware not included	7/16" x 5/8" (11.1mm x 15.9mm) 7/16" (11.1mm)
GBU-CT-14214	Tinned Ground Buss Bar, 1/4" x 2" x 14" (6.4 mm x 50.8 mm x 355.6 mm), hardware not included	27 (50.8mm) 1/2" (12.7mm) (12.7m



4" x 12"

Part No.	Description	Drawing
GBU-C-14412	Ground Buss Bar, 1/4" x 4" x 12" (6.3 mm x 101.6 mm x 304.8 mm), hardware not included	7/16" x 5/8" (11.1nm x 15.9mm) (11.1nm x 15.9mm)
GBU-CT-14412	Tinned Ground Buss Bar, 1/4" x 4" x 12" (6.3 mm x 101.6 mm x 304.8 mm), hardware not included	4" (101.6mm) (12.7mm) (12.7mm) (12.7mm) (12.7mm) (12.7mm) (12.7mm) (12.7mm) (12.7mm) (12.7mm) (12.7mm) (12.7mm) (12.7mm) (12.7mm) (10.6mm) (

4" x 20"

Part No.	Description	Drawing
GBU-C-14420	Ground Buss Bar, 1/4" x 4" x 20" (6.3 mm x 101.6 mm x 508.0 mm), hardware not included	7/16" x 5/8" (11.1mm) 7/16"
GBU-CT-14420	Tinned Ground Buss Bar, 1/4" x 4" x 20" (6.3 mm x 101.6 mm x 508.0 mm), hardware not included	4" (101.6mm) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Other Size Ground Buss Bars

General Specifications

- Design: universal slotted or standard hole
- Custom patterns and hole sizes available
- Application: grounding

- Mounts to: wall or tower
- Material: copper or tinned copper
- Order separately: hardware kit



2" x 12"

Part No.	Description	Material	
GB-C-14212-1	Ground Buss Bar, 1/4" x 2" x 12" (6.4 mm x 50.8 mm x 304.8 mm), hardware not included	210-	
GB-CT-14212-2	Tinned Ground Buss Bar, 1/4" x 2" x 12" (6.4 mm x 50.8 mm x 304.8 mm), hardware not included		

2-1/2" x 12-1/2"

Part No.	Description	Drawing
GB-C-142.512.5-3	Ground Buss Bar, 1/4" x 2.5" x 12.5" (6.4 mm x 63.5 mm x 317.5 mm), hardware not included	7/16* 13/16* (20.8mm) 2-1/2* (63.8mm) 1-1/4* (25.4mm) 12-1/2* (31.8mm) 1-3/8* (34.9mm) 1-3/8* (34.9mm) (34.9mm) (34.9mm) (31.5mm)
GB-CT-142.512.5-4	Tinned Ground Buss Bar, 1/4" x 2.5" x 12.5" (6.4 mm x 63.5 mm x 317.5 mm), hardware not included	

2-1/2" x 19-1/2"

Part No.	Description	Drawing
GB-C-142.519.5-5	Ground Buss Bar, 1/4" x 2.5" x 19.5" (6.4 mm x 63.5 mm x 495.3 mm), hardware not included	7/16° (11.1mm)
GB-CT-142.519.5-6	Tinned Ground Buss Bar, 1/4" x 2.5" x 19.5" (6.4 mm x 63.5 mm x 495.3 mm), hardware not included	13/16" (20.6mm) 2-1/2" (63.5mm) (25.4mm

Grounding

4" x 14"

Part No.	Description	Drawing
GB-C-14414-7	Ground Buss Bar, 1/4" x 4" x 14" (6.3 mm x 101.6 mm x 355.6 mm), hardware not included	7/16° x 5/8° (1.1mm 15.9mm) (11.1mm)
GB-CT-14414-8	Tinned Ground Buss Bar, 1/4" x 4" x 14" (6.3 mm x 101.6 mm x 355.6 mm), hardware not included	(101.6mm) (101.6mm) (101.6mm) (38.1mm) (38.1mm) (35.6mm) (35.6mm)

4" x 24"

Part No.	Description	Drawing
GB-C-14424-9	Ground Buss Bar, 1/4" x 4" x 24" (6.3 mm x 101.6 mm x 609.6 mm), hardware not included	7/16" x 5/8" (11.1mm x 15.9mm) 7/16" (11.1mm) 5/8" (15.9mm)
GB-CT-14424-10	Tinned Ground Buss Bar, 1/4" x 4" x 24" (6.3 mm x 101.6 mm x 609.6 mm), hardware not included	4" (101.6mm) ○ 000000000000000000000000000000000000

Universal Buss Bar Hardware Kit

Part No.	Description	Drawing	
BBHK-IS	Universal Buss Bar Hardware Kit—Insulated Shelter		
BBHK-NIS	Universal Buss Bar Hardware Kit—Non-Insulated Shelter	Insulated Shelter	Non-Insulated Shelter
BBHK-IT	Universal Buss Bar Hardware Kit—Insulated Tower		
BBHK-NIT	Universal Buss Bar Hardware Kit—Non-Insulated Tower	Insulated Tower	Non-Insulated Tower

NOTE: Buss Bar Kit includes all components necessary to attach buss bars in any of the four configurations shown above

Grounding

Cable Lug (Barrel Lug)

Cable lugs (tubular, crimp type) are made of high conductive copper tube with tin-plated. These products are suitable for the connection of copper conductors cable with equipment. They are fully annealed to ensure qualities of electrical and mechanical strength. These are widely used in Electricity Boards and Electrical Industries.



One Hole Lugs- No Inspection Window

Part No.	Gauge	Stud Size	Picture
CL-8-14	#8	1/4"	
CL-6-14	#6	1/4"	
CL-6-38	#6	3/8"	
CL-2S-38	2 Solid, #3, #4	3/8"	
CL-2-14	#2	1/4"	
CL-2-516	#2	5/16"	
CL-2-38	#2	3/8"	

Two Hole Lugs-No Inspection Window

Part No.	Gauge	Stud Size	Picture
CL-82-14	#8	1/4"	
CL-62-14	#6	1/4"	
CL-62-38	#6	3/8"	
CL-2S2-38	2 Solid, #3, #4	3/8"	
CL-2S2-14	2 Solid, #3, #4	1/4"	
CL-22-14	#2	1/4"	
CL-22-516	#2	1/4"	
CL-22-38	#2	3/8"	

Universal Two Hole Lugs-No Inspection Window

Part No.	Gauge	Stud Size	Picture
CL-62-38U	#6	3/8"	
CL-2S2-38U	2 Solid, #3, #4	3/8"	이 이 이 이
CL-22-38U	#2	3/8"	



One Hole Lugs- With Inspection Window

Part No.	Gauge	Stud Size	Picture
CL-IH-8-14	#8	1/4"	
CL-IH -6-14	#6	1/4"	
CL-IH -6-38	#6	3/8"	
CL-IH -2S-38	2 Solid, #3, #4	3/8"	
CL-IH -2-14	#2	1/4"	
CLIH 2-38	#2	3/8"	

Two Hole Lugs-With Inspection Window

Part No.	Gauge	Stud Size	Picture
CL-IH -82-14	#8	1/4"	
CL-IH -62-14	#6	1/4"	
CL-IH -62-38	#6	3/8"	
CL-IH -2S2-38	2 Solid, #3, #4	3/8"	000
CL-IH -2S2-14	2 Solid, #3, #4	1/4"	
CL-IH -22-14	#2	1/4"	
CL-IH -22-516	#2	1/4"	
CL-IH -22-38	#2	3/8"	

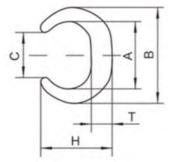
Universal Two Hole Lugs-With Inspection Window

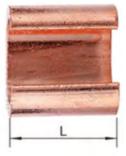
Part No.	Gauge	Stud Size	Picture
CL-IH -62-38U	#6	3/8"	0.00
CL-IH -2S2-38U	2 Solid, #3, #4	3/8"	
CL-IH -22-38U	#2	3/8"	

Copper C Taps (C Clamp)

Copper C clamp is made of high quality copper, and It is suitable for the connection of copper or aluminum splicing wire, made of "C" shaped. Copper C clamp is widely used in earthing project with it's Strong corrosion resistance, Good conductivity, and long use life.







L N	Suitable Section of		Dimensions(mm)				
Item No.	Conductor(mm2)	В	А	Н	L	Т	С
CCT-10	7.5~11	9.5	6.3	6.2	12	1.6	4
CCT-16	11.5~16	11.8	7.8	7.8	13	2	5
CCT-20	14~20	12.8	8.6	9.7	13	2.9	5.4
CCT-26	21~26	14.7	10.2	10	16	3.2	6.5
CCT-44	27~44	19	13.4	14.4	20	4	8.5
CCT-60	45~60	21	15.4	15.4	22	4	9.7
CCT-76	61~76	24.4	17.3	17.6	22	5	10.8
CCT-98	77~98	27.8	20.8	18.8	25	5	12.8
CCT-122	99~122	29.8	22.1	21.2	26	5.5	13.5
CCT-154	123~154	34	25.7	24.2	28	6	17
CCT-190	155~190	37	28.5	25.4	35	6	17.4
CCT-240	191~240	40	30.2	28.5	40	7	19
CCT-288	241~288	44.5	34.7	31.1	45	7	22.3
CCT-365	289~365	47.5	37.7	34	50	7	24.8
CCT-450	366~450	57	42.5	41	60	10	28
CCT-560	451~560	62	46	44	65	11	31
CCT-700	561~700	73	52	48.5	70	12	34

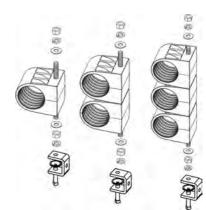




Feeder Cable Clamp—Single Hole Through Type

The feeder cable clamp is designed specifically for wireless application. These stackable space saving clamps provide versatility in all applications reducing material and installation costs. Feeder cable clamp are manufactured from a durable weather resistant glass polypropylene which exceeds the recommended temperature parameters for coaxial cable i.e.(-40° to 185°F). Thermal, chemical and UV resistance ensure long term integrity in extreme environments, hardware is available in 304 or 201 stainless steel.

- Material: Stainless steel 304
- Design: Single-hole type
- Include: Angle adapter, mounting hardwares, plastic clamp
- Mount to: Angle members



Item No.	Description.	
CH-CC-S38S-1	For 3/8" super flexible coaxial cable, 1 run	
CH-CC -S38S-2	For 3/8" super flexible coaxial cable, 2 run	
CH-CC -S38S-3	For 3/8" super flexible coaxial cable, 3 run	
CH-CC -\$38-1	For 3/8" coaxial cable, 1 run	
CH-CC -\$38-2	For 3/8" coaxial cable, 2 run	
CH-CC -\$38-3	For 3/8" coaxial cable, 3 run	
CH-CC -\$12S-1	For 1/2" super flexible coaxial cable, 1 run	
CH-CC -S12S-2	For 1/2" super flexible coaxial cable, 2 run	
CH-CC -S12S-3	For 1/2" super flexible coaxial cable, 3 run	
CH-CC -S12MM-1	For cable with OD: 12mm-13mm, 1run	
CH-CC -S12MM-2	For cable with OD: 12mm-13mm, 2run	
CH-CC -S12MM-3	For cable with OD: 12mm-13mm, 3run	
CH-CC -S12-1	For 1/2" coaxial cable, 1 run	
CH-CC -S12-2	For 1/2" coaxial cable, 2 run	
CLAMP-S12-3	For 1/2" coaxial cable, 3 run	
CH-CC -S14.5MM-1	For cable with OD: 14.5mm-15.5mm, 1run	
CH-CC -S14.5MM-2	For cable with OD: 14.5mm-15.5mm, 2run	
CH-CC -S14.5MM-3	For cable with OD: 14.5mm-15.5mm, 3run	
CH-CC -S78-1	For 7/8" coaxial cable, 1 run	
CH-CC -S78-2	For 7/8" coaxial cable, 2 run	
CH-CC -S78-3	For 7/8" coaxial cable, 3 run	
CH-CC -\$114-1	For 1-1/4" coaxial cable, 1 run	
CH-CC -S114-2	For 1-1/4" coaxial cable, 2 run	
CH-CC -S114-3	For 1-1/4" coaxial cable, 3 run	
CH-CC -\$158-1	For 1-5/8" coaxial cable, 1 run	
CH-CC -\$158-2	For 1-5/8" coaxial cable, 2 run	
CH-CC -S158-3	For 1-5/8" coaxial cable, 3 run	



Feeder Cable Clamp—Single Hole Through-Click Type

Item No.	Description.	Picture
CH-CC-CK-S12-1	For 1/2" coaxial cable, 1 run, click type	
CH-CC-CK-S12-2	For 1/2" coaxial cable, 2 run, click type	
CH-CC-CK-S12-3	For 1/2" coaxial cable, 3 run, click type	
CH-CC-CK-S78-1	For 7/8" coaxial cable, 1 run, click type	
CH-CC-CK-S78-2	For 7/8" coaxial cable, 2 run, click type	
CH-CC-CK-S78-3	For 7/8" coaxial cable, 3 run, click type	
CH-CC-CK-S114-1	For 1-1/4" coaxial cable, 1 run, click type	
CH-CC-CK-S114-2	For 1-1/4" coaxial cable, 2 run, click type	
CH-CC-CK-S114-3	For 1-1/4" coaxial cable, 3 run, click type	Children Par
CH-CC-CK-S158-1	For 1-5/8" coaxial cable, 1 run, click type	
CH-CC-CK-S158-2	For 1-5/8" coaxial cable, 2 run, click type	
CH-CC-CK-S158-3	For 1-5/8" coaxial cable, 3 run, click type	

• Please contact us for more other size.

Feeder Cable Clamp—Double Hole Through-Click Type

- Material: Stainless steel 304
- Design: Single-hole type
- Include: Angle adapter, mounting hardwares, plastic clamp
- Mount to: Angle members
- Feature: Durability, easy installation, weather-resistant.

Item No.	Description.	Picture
CH-CC-CK-D12-2	For 1/2" coaxial cable, 2 run, click type	
CH-CC-CK-D12-4	For 1/2" coaxial cable, 4 run, click type	
CH-CC-CK-D12-6	For 1/2" coaxial cable, 6 run, click type	
CH-CC-CK-D78-2	For 7/8" coaxial cable, 2 run, click type	d d d
CH-CC-CK-D78-4	For 7/8" coaxial cable, 4 run, click type	
CH-CC-CK-D78-6	For 7/8" coaxial cable, 6 run, click type	
CH-CC-CK-D114-2	For 1-1/4" coaxial cable, 2 run, click type	
CH-CC-CK-D114-4	For 1-1/4" coaxial cable, 4 run, click type	
CH-CC-CK-D114-6	For 1-1/4" coaxial cable, 6 run, click type	
CH-CC-CK-D158-2	For 1-5/8" coaxial cable, 2 run, click type]
CH-CC-CK-D158-4	For 1-5/8" coaxial cable, 4 run, click type	
CH-CC-CK-D158-6	For 1-5/8" coaxial cable, 6 run, click type]



Feeder Cable Clamp—Double Hole Through Type

Item No.	Description.	Picture
CH-CC-D38-2	For 3/8" coaxial cable, 2 run	
CH-CC-D38-4	For 3/8" coaxial cable, 4 run	
CH-CC-D38-6	For 3/8" coaxial cable, 6 run	
CH-CC-D12S-2	For 1/2" super flexible coaxial cable, 2 run	
CH-CC-D12S-4	For 1/2" super flexible coaxial cable, 4 run	
CH-CC-D12S-6	For 1/2" super flexible coaxial cable, 6 run	
CH-CC-13*14DH1	For 14mm-14.5mm cable, 2run	
CH-CC-13*14DH2	For 14mm-14.5mm cable, 4run	
CH-CC-13*14DH3	For 14mm-14.5mm cable, 6run	
CH-CC-D12-2	For 1/2" coaxial cable, 2 run	OFTO
CH-CC-D12-4	For 1/2" coaxial cable, 4 run	VO/FI
CH-CC-D12-6	For 1/2" coaxial cable, 6 run	- CAA
CH-CC-D78-2	For 7/8" coaxial cable, 2 run	
CH-CC-D78-4	For 7/8" coaxial cable, 4 run	
CH-CC-D78-6	For 7/8" coaxial cable, 6 run	
CH-CC-D114-2	For 1-1/4" coaxial cable, 2 run	
CH-CC-D114-4	For 1-1/4" coaxial cable, 4 run]
CH-CC-D114-6	For 1-1/4" coaxial cable, 6 run	
CH-CC-D158-2	For 1-5/8" coaxial cable, 2 run	
CH-CC-D158-4	For 1-5/8" coaxial cable, 4 run	
CH-CC-D158-6	For 1-5/8" coaxial cable, 6 run]

* Please contact us for more other size.

Feeder Cable Clamp—Double Hole Through-Asymmetric Type

Item No.	Description.	Picture
CH-CC-7A13*14DH1	For 7.0-7.5mm*1 run and 14-14.5mm*1 run	
CH-CC-7A13*14DH2	For 7.0-7.5mm*2 run and 14-14.5mm*2 run	
CH-CC-7A13*14DH3	For 7.0-7.5mm*3 run and 14-14.5mm*3 run	



Feeder Cable Clamp—Triple Hole Through Type

Item No.	Description.	Picture
CH-CC-6.5A15.5*16.5TH21-2R	For 6 run 6.5-7.5mm +d 3 run11-17.5mm cable	
CH-CC-4*6A6.4*7A15.5*17TH111-3R	For 3 run 4-5mm+3 run 6.5-7.5mm+ 3 run18-18mm	



Combined clamp

The clamp can be combined freely by all size of single hole, double or triple hole clamp, also can add rubber grommet into the clamp hole for suit for wide range of cable size.

Below is some of our regular Combined clamp

Item No.	Description.	Picture
CH-CC-13*14DH3-R7R9.5*13	Small hole for 7-7.5mm cable, big hole for 9.5-11.5 mm cable	Salt BOOOR
CH-CC-13*14DH3-R5R9.5*13	Small hole for 5-5.5mm cable, big hole for 9.5-11.5 mm cable	A CONTRACTOR
CH-CC-7A13*14DH3-R9.5*13	Small hole for 7-8mm cable, big hole for 9.5-11.5mm cable	
CH-CC-12.2SH2-R0711	For 7-9mm cable	and the store
CH-CC-13*14DH3-R7	Small hole for 7-7.5mm cable, big hole for 14-14.5 cable	



Item No.	Description.	Picture
CH-CC-7813*14DH11-R20.5R7	For 7-8mm & 20.5-23mm cable	e faire
CH-CC-7813*14DH22-R20.5R7	For 7-8mm & 20.5-23mm cable	
CH-CC-78DH2-R20.5	For 20.5-23mm cable	
CH-CC-13*14DH2-R5	For 5-5.5mm & 14-14.5mm cable	and the second
CH-CC-13*14DH2-R7	For 7-7.5mm & 14-14.5mm cable	
CH-CC-78DH1-R10R20.5	For 10-11mm and 20-22mm cable	
CH-CC-1213*14DH11-R7	For 7-8mm & 1/2" cable	



Item No.	Description.	Picture
CH-CC-12DH1-R12	For 12-13mm cable	THE REAL PROPERTY OF
CH-CC-12DH1-R8	For 8-9mm cable	
CH-CC-12DH2-R9.5	For 9.5-10mm cable	P.S.aller
CH-CC-12SH2-12R8	For 8-9mm cable	
CH-CC-13*1478DH11-R5	For 5-5.5mm & 7/8" cable	
CH-CC-13*14DH2-R7	For 7-7.5mm cable	-1100
CH-CC-3812DH11	For 1/2" and 3/8" cable	Son and



Item No.	Description.	Picture
CH-CC-38DH3-R6.5	For 6.5-7mm cable	tox all see
CH-CC-4*8A10.5*11DH3-R4*8	For 10.5-11.5mm and 4-6mm cable	a contraction of the second se
CH-CC-7812DH11-R10R8	For 8mm and 10mm cable	
CH-CC-13*14DH-R9.5*13R4*8	For 9.5-11.5mm and 4-6mm cable	
CH-CC-78DH1-R10	For 10mm cable	
CH-CC-7813*14DH22-R20R5	For 5-5.5mm & 20-22mm cable	

*For more other size, please contact us freely.



Cable Clamp -- rubber ring-angle adapter type

Item No.	Size	Description	Picture
CC-RRAA	1/2", 7/8", 1-1/4", 1-5/8"	For 1/2", 7/8", 1-1/4", 1-5/8" cable	

Cable Clamp -- support blocks with stand off and hose clamp

Item No.	Size	Description	Picture
CC-SOHCSB	1/2", 7/8", 1-1/4", 1-5/8"	For 1/2", 7/8", 1-1/4", 1-5/8" cable	

Cable Clamp --- Wall install type

Item No.	Size	Description	Picture
CC-WT-1	1/2", 7/8", 1-1/4", 1-5/8"	For 1/2", 7/8", 1-1/4", 1-5/8" cable	soft

Cable Clamp -- Wall install type

Item No.	Size	Description	Picture
CC-WT-2	1/2", 7/8", 1-1/4", 1-5/8"	For 1/2", 7/8", 1-1/4", 1-5/8" cable	

Cable Clamp -- support blocks with clamp head and hose clamp

Item No.	Size	Description	Picture
CC-CHHCSB	1/2", 7/8", 1-1/4", 1-5/8"	For 1/2", 7/8", 1-1/4", 1-5/8" cable	

Cable Clamp -- rubber ring-hose clamp type

Item No.	Size	Description	Picture
CC-RRHC	1/2", 7/8", 1-1/4", 1-5/8"	For 1/2", 7/8", 1-1/4", 1-5/8" cable	Oð



Coax Cable Support Blocks

Introduction:

The Coax Support Block is a block hanger system designed specifically for wireless applications. Stackable space saving units provide versatility in all applications reducing material and installation costs by requiring only one M8 or 3/8" or 10mm threaded rod to secure up to six runs of coax. Coax Support Blocks are manufactured from a durable weather resistant Long Glass Polypropylene which exceeds the recommended temperature parameters for coaxial cable i.e. (-40° to 185° F). Thermal, chemical, and UV resistance ensure long term integrity in extreme environments including mountain tops, deserts, coastal, and industrial type applications.

Specifications:

Size:1/4", 3/8", 1/2"S, 1/2", 7/8", 1-1/4", 1-5/8", or use with grommet rubber for different size cable freely. Type: One hole type, double hole type, self-locking type and leaky cable type



Product Information:

App:	Cable support
Support blocks type:	Double hole type
Size:	7/8"
Available size:	3/8", 1/2"S, 1/2", 7/8", 1-1/4", 1-5/8" ect., or use with grommet rubber for different size cable freely.
Compatible Max diameter:	27mm
Compatible Min diameter:	26mm
Mounts from:	M8 or M10 threaded rod
Material:	Fiber glass reinforced PP
Incl.:	Blocks only
Packing :	Plastic bag + carton



Part No.	Description	Part No.	Description
CH-CB-38-SH	Single hole type, for 3/8" Cable	CH-CB-38-SL	Self-locking type, for 3/8" Cable
CH-CB-12S-SH	Single hole type, for 1/2S" Cable	CH-CB-12S-SL	Self-locking type, for 1/2S" Cable
CH-CB-12-SH	Single hole type, for 1/2" Cable	CH-CB-12-SL	Self-locking type, for 1/2" Cable
CH-CB-78-SH	Single hole type, for 7/8" Cable	CH-CB-78-SL	Self-locking type, for 7/8" Cable
CH-CB-114-SH	Single hole type, for 1-1/4" Cable	CH-CB-114-SL	Self-locking type, for 1-1/4" Cable
CH-CB-158-SH	Single hole type, for 1-5/8" Cable	CH-CB-158-SL	Self-locking type, for 1-5/8" Cable
CH-CB-214-SH	Single hole type, for 2-1/4" Cable	CH-CB-214-SL	Self-locking type, for 2-1/4" Cable
CH-CB-38-DH	Double hole type, for 3/8" Cable	CH-CB-38-LC	Leaky cable type, for 3/8" Cable
CH-CB-12S-DH	Double hole type, for 1/2S" Cable	CH-CB-12S-LC	Leaky cable type, for 1/2S" Cable
CH-CB-12-DH	Double hole type, for 1/2" Cable	CH-CB-12-LC	Leaky cable type, for 1/2" Cable
CH-CB-78-DH	Double hole type, for 7/8" Cable	CH-CB-78-LC	Leaky cable type, for 7/8" Cable
CH-CB-114-DH	Double hole type, for 1-1/4" Cable	CH-CB-114-LC	Leaky cable type, for 1-1/4" Cable
CH-CB-158-DH	Double hole type, for 1-5/8" Cable	CH-CB-158-LC	Leaky cable type, for 1-5/8" Cable
CH-CB-214-DH	Double hole type, for 2-1/4" Cable	CH-CB-214-LC	Leaky cable type, for 2-1/4" Cable

Leaking Cable or Radiating Cable Hanger

Description:

Radiating cable hanger is main use for fasten radiating cable, mainly used for fix cable to walls or steel wire, and can be used in the environments of tunnels, wall and underground pipeline. It consist of self-locking clamp or hanger, round base (stand off), and screw part.

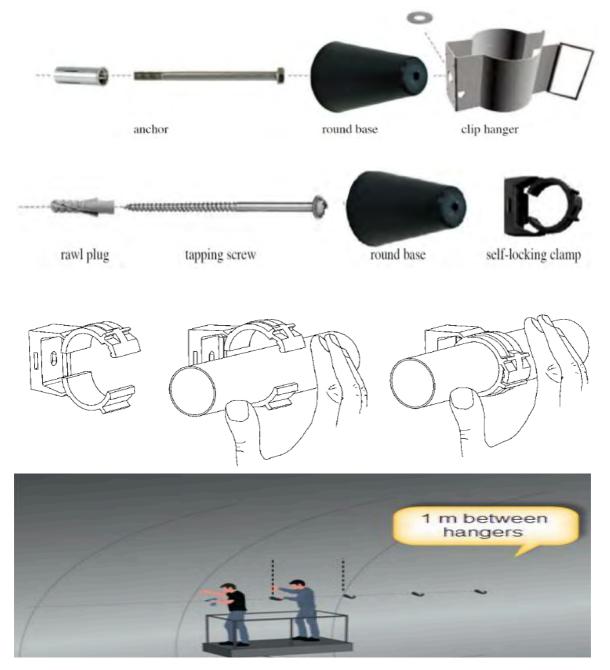


Item No.	Component & Material	Size	Picture
CC-RCH-SCPSA	self-locking clamp: nylon round base(cone standoff): pp metal anchor: carbon steel	1/2", 7/8", 1-1/4", 1-5/8"	
CC-RCH-SCPSA-MT	self-locking clamp: nylon round base(cone standoff): pp metal anchor: carbon steel metal tight clamp: stainless steel	1/2", 7/8", 1-1/4", 1-5/8"	
CC-RCH-SCPSTS	self-locking clamp: nylon round base(cone standoff): pp tapping screw: stainless steel rawl plug: nylon	1/2", 7/8", 1-1/4", 1-5/8"	
CC-RCH-CHPSA	matel clip hanger: stainless steel round base(cone standoff): pp metal anchor: carbon steel	1/2", 7/8", 1-1/4", 1-5/8"	
CC-RCH-BHPSA	matel butterfly hanger: stainless steel round base(cone standoff): pp metal anchor: carbon steel	1/2", 7/8", 1-1/4", 1-5/8"	
CC-RCH-BHMSA	matel butterfly hanger: stainless steel round base(cone standoff): pp matel anchor: carbon steel metal standoff: stainless steel	1/2", 7/8", 1-1/4", 1-5/8"	
CC-RCH-CCPSA	nylon click-on clamp: nylon pyramid or cone standoff: pp metal anchor: carbon steel/galvanized steel	1-1/4", 1-5/8"	
CC-RCH-DCCMSA	double click-on clamp: nylon metal standoff: stainless steel metal anchor: stainless steel	1-1/4", 1-5/8"	
CC-RCHOT-SCMH1-MT	self-locking clamp: nylon hook: carbon steel metal tight clamp: carbon steel application: for outer tunnel	1/2", 7/8", 1-1/4", 1-5/8"	



CC-RCH-CCHPSA	combination clip hanger: nylon + carbon steel pyramid or cone standoff: pp metal anchor: stainless steel/galvanized steel	1-1/4", 1-5/8"	
CC-RCHOT-DCCMH2	double click-on clamp: nylon hook: : stainless steel application: for outer tunnel	1-1/4", 1-5/8"	

Installation Instruction:





Metal Cable Hanger--Standard Butterfly Hangers

Description:

Features: Stainless Steel Standard Hangers provide a reliable solution for supporting single runs of coaxial cable in wireless systems. Cable grippers bite into the coax jacketing to provide additional support. Recommended spacing is one hanger for every 3 feet of cable. Use with braided, corrugated, or smooth wall cables. Allows cable attachment by using 3/8" hardware (not included). Will not loosen over time. Hex head bolt is also slotted for use with a screw driver. Fits corrugated and smooth wall cables. Construction: Constructed from high grade 304 stainless steel for maximum corrosion protection. Part is tumbled and cleaned to remove burrs and oil.



Design Criteria: Can be used outdoors or indoors.

Item No.	Description
CH-SBH-12	Butterfly Hangers for 1/2" Coaxial Cable
CH-SBH-78	Butterfly Hangers for 7/8" Coaxial Cable
CH-SBH-114	Butterfly Hangers for 1-1/4" Coaxial Cable
CH-SBH-158	Butterfly Hangers for 1-5/8" Coaxial Cable

Metal Cable Hanger--- Clip-on Hanger

Features:

- Allows cable attachment using 3/8" hardware.
- Slotted to allow attachment with hose clamps or 1/2" banding.
- Locking bale for easy installation, no nuts or bolts.
- Fits corrugated or smooth-wall cables.
- Material: 304 stainless steel for maximum corrosion protection.



Item No.	Description
CH-COH-12	Clip-on hangers for 1/2" Coaxial Cable
CH-COH-78	Clip-on hangers for 7/8" Coaxial Cable
CH-COH-114	Clip-on hangers for 1-1/4" Coaxial Cable
CH-COH-158	Clip-on hangers for 1-5/8" Coaxial Cable



Snap-In Angle Adapters (AA-SI)

Angle Adapters for Snap-In

Angle Adapters are used to attach a variety of cable hangers to angled tower members without drilling any holes into the tower leg. Snap-In Angle Universal Adapter is comprised of stainless steel and has two 3/4" holes for use with snap-in hangers, wider opening allows more versatility in mounting.

Universal Angle Adapters (AA-U)

Two 3/4" mounting holes for snap-in hangers. With serrated teeth to grip surfaces. adapter insert included, these insert convert the 3/4 holes to threaded 3/8" holes. Tensioning bolts, fillister screws with lock washer and inserts included. Wider opening allows more versatility in mounting. Constructed from high grade 304 stainless steel.





Angle Adapters, 3/8" threaded (AA-38)

304 Stainless Steel construction, serrated teeth grab onto and hold steel surfaces. Hardware includes 3/8" bolt and fillister screw with lock washer. Wider opening allows more versatility in mounting.

C Shape Clamp Head For Feeder Clamp (AA-CCH)

Clamp head is made from stainless steel, it will be used together with rod and plastic clamp to fix coaxial feeder cables to base towers, with M8 threaded hole. Material: 304 stainless steel

Insert Kits for Angle Adapters (AA-IK)

Used to convert 3/4" snap-in holes to threaded 3/8" holes for use with clip and butterfly hangers or threaded rod.

Feature:

- 1. Four use with the universal angle adapter series
- 2. Heavy-Duty 304 stainless steel construction
- 3. Convert 3/4" snap-in holes to threaded 3/8" holes









Hardware Kit for Angle Adapter

Part No.	Description	Picture
AA-HK-SBW	Include bolt and washer, Bolt size: 3/8"hole, length: 3/4" Material: 304 stainless steel	
AA-HK-LB	Bolt size: square head, 3/8"hole, length: 1-3/4" Material: 304 stainless steel	

Stand Off Adapters

Product Description:

Stand-Off Adapters enable hangers to be mounted to larger members. Removing a loose threaded insert quickly converts this Stand-Off to accept Snap-In Hangers. Includes all necessary slotted hex head bolts, hex nuts and lock washers. Stand-Offs are slotted to accept round member adapters or banding straps for mounting on any size round tower member. These Stand-Off Adapters are manufactured from stainless steel to resist corrosion.

Installation:

1. Fasten hanger to stand-off with the nut, bolt and lock washer.

2. Mount the stand-off to the round tower member with the adjustable round member adapter or other adapter.

Stand Off Adapters with 3/8" Tapped Hole

Application: Coaxial cable

- -Support Size: 3/8" or 10 mm tapped hole
- Heavy duty 304 Stainless Steel construction
- Accepts hose clamps and banding
- -Design: Adapts hangers to round members
- -Feature: Provides 2" stand-off
- -Material: Stainless steel



Part No.	Description
AA-SOA-38	3/8" hole stand-off
AA-SOA-38-HK	3/8" hole stand-off, include hardware kit



Stand Off with 3/4" Hole For Snap-Ins

- -Application: Coaxial cable
- -Support Size: 3/4" hole for Snap-Ins
- Heavy duty 304 Stainless Steel construction
- Accepts hose clamps and banding
- -Design: Adapts hangers to round members
- -Feature: Provides 2" stand-off
- -Material: Stainless steel



Part No.	Description
AA-SOA-34	3/4" hole stand-off
AA-SOA-38-HKIA	3/8" hole stand-off, include insert adapter and hardware kit

Three-Run Standoffs

- -Application: Coaxial cable
- -Support Size: 3/4" hole for Snap-Ins
- Heavy duty 304 Stainless Steel construction
- Accepts hose clamps and banding
- -Design: Adapts hangers to round members
- -Feature: Provides 2" stand-off
- -Material: Stainless steel



Part No.	Description
AA-SOA-TR	Three-run stand-off
AA-SOA-TR-HKIA	Three-run stand-off, include insert adapter and hardware kit

Clamp heads

General Specifications

- Durable 304 Stainless Steel construction
- Accepts 1/2" banding or hose clamps
- 3/8" hole for common hardware mounting



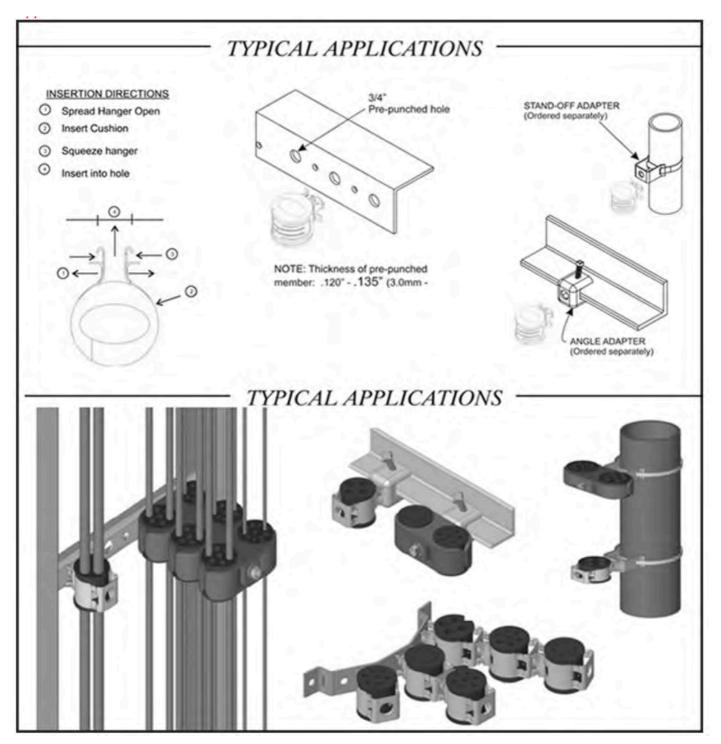
Part No.	Description
AA-CH	Stainless Steel Clamp Heads



Rubber Grommet / Barrel Cushion

These EPDM grommets are designed to manager the RF coax cable, elliptical waveguide, power cable, hybrid cable and fiber cable...etc. They are usually used for wireless cellular sites. The grommet fit with snap-in hanger or coax block hanger for easy installation. They allow multiple runs with single attachment point. They are manufactured from UV resistant EPDM rubber which is durable in extreme conditions.

Selectable Material: EPDM rubber, natural rubber.









multi hole type

single hole type

Rubber Grommet / Barrel Cushion---Single Hole

Item No.	Match with hanger	Holes	Suggested cable sizes
CH-RG12S-5mm	1/2"S	5mm	5-6mm fiber
CH-RG12-5mm	1/2"	5mm	5-6mm fiber
CH-RG38-6.5mm	3/8″	6.5mm	6.5-7mm cable
CH-RG12S-6.5mm	1/2"S	6.5mm	6.5-7mm cable
CH-RG12-6.5mm	1/2" (15.8mm)	6.5mm	6.5-7mm cable
CH-RG12-7mm	1/2" (15.8mm)	7mm	LMR240, 1/4", 7-8mm cable
CH-RG12-8.3mm	1/2" (15.8mm)	8.3mm	8-10mm cable
CH-RG12-9.5mm	1/2" (15.8mm)	9.5mm	9.5-10.5mm cable
CH-RG12-10mm	1/2" (15.8mm)	10mm	LMR400, 3/8", RG11U, 10-12mm cable
CH-RG78-7	7/8"	7mm	LMR240, 1/4", 7-8mm cable
CH-RG78-10	7/8"	10mm	LMR400, 3/8", RG11U, 10-11mm cable
CH-RG78-14	7/8"	14mm	14-15mm cable
CH-RG78-20	7/8"	20mm	20-21mm cable
CH-RG78-20	7/8"	20mm	20-22mm cable
CH-RG78-20.5	7/8"	20.5mm	20.5-22.5mm cable
CH-RG114-10	1-1/4"	10mm	10-11mm cable
CH-RG114-15	1-1/4"	15mm	15-16mm cable
CH-RG114-19	1-1/4"	19mm	19-21mm power cable
CH-RG114-19.5	1-1/4"	19.5mm	19.5-21mm cable
CH-RG114-20	1-1/4"	20mm	20-21mm cable
CH-RG114-22	1-1/4"	22mm	22-23mm cable
CH-RG114-33	1-1/4"	33mm	33-35mm cable
CH-RG114-23	1-1/4"	23mm	23-25mm cable
CH-RG114-27	1-1/4"	27mm	7/8", 27-29mm power cable
CH-RG158-33	1-5/8"	33mm	33-35mm cable
CH-RG12S-4*6mm	1/2"S	4*6mm	4-5.5mm cable
CH-RG12S-5*8mm	1/2"S	5*8mm	5-7mm cable



Rubber Grommet / Barrel Cushion---Multi Hole

Item No.	Match with hanger	Holes	Suggested cable sizes
CH-RG114-386	1-1/4"	10mm(6)	(7) LMR400, 3/8" flex, RG11U
CH-RG158-1410	1-5/8"	6mm(10)	(10) 1/4" Super flex & LMR240
CH-RG158-386	1-5/8"	10mm(6)	(7) LMR400, 3/8" flex, RG11U
CH-RG158-387	1-5/8"	10mm(7)	(7) LMR400, 3/8" flex, RG11U
CH-RG158-124	1-5/8"	16mm(4)	(4) 1/2" coax
CH-RG158-582	1-5/8"	21mm(2)	(2) LMR900, 5/8" coax
CH-RG158-144122	1-5/8"	6mm(4), 16mm(2)	(4) LMR240, 1/4"S (2) 1/2" coax
CH-RG158-384122	1-5/8"	10mm(4), 16mm(2)	(4) LMR400, 3/8" flex, RG11U (2) 1/2" coax
CH-RG158-144384	1-5/8"	6mm(4), 10mm(4)	(4) LMR240, 1/4"S (4) LMR400, 3/8" flex, RG11U
CH-RG214-144582	2-1/4"	6mm(4), 21mm(2)	(4) 1/4"S, LMR240 (2) LMR900, 5/8" coax
CH-RG214-384582	2-1/4"	10mm(4), 21mm(2)	(4) LMR400, 3/8" flex, RG11U (2) LMR900, 5/8" coax

Cable Entry and Sealing Solution



Cable Entry



Cable Entry Panel 4" (102mm)

Aluminum feed-thru entry panels enable multiple coax runs to enter buildings and shelters. These panels support the coax at the entry point and prevent moisture from entering the building. Each panel features 4 (102mm) openings to accept boot assemblies. Each boot assembly must be fitted with a cushion to hold the coax in place. Feed-thru entry panels are offered with a broad selection of hole patterns and plate sizes to match your exact application. These entries can be used in both interior and exterior wall. Each feed-thru entry panel includes a set of wall attachment hardware. Boots and cushions, or boot assembly kits must be purchased separately to accommodate specific coax requirements.



Characteristics

Application: Entry port solutions		Feature: Easy to install solution		
Design: Entry plates with round ports		Mounts to: Walls		
Includes: Port, mounting hardware		Material: Aluminum		
Part No.	Description	Part No.	Description	
CES-CEP-11	Entry Panel, 1 Port, 1 x 1	CES-CEP-25	Entry Panel, 10 Port, 2 x 5	
CES-CEP-12	Entry Panel, 2 Port, 1 x 2	CES-CEP-26	Entry Panel, 12 Port, 2 x 6	
CES-CEP-13	Entry Panel, 3 Port, 1 x 3	CES-CEP-33	Entry Panel, 9 Port, 3 x 3	
CES-CEP-14	Entry Panel, 4 Port, 1 x 4	CES-CEP-34	Entry Panel, 12 Port, 3 x 4	
CES-CEP-22	Entry Panel, 4 Port, 2 x 2	CES-CEP-36	Entry Panel, 18 Port, 3 x 6	
CES-CEP-23	Entry Panel, 6 Port, 2 x 3	CES-CEP-44	Entry Panel, 16 Port, 4 x 4	
CES-CEP-24	Entry Panel, 8 Port, 2 x 4	CES-CEP-46	Entry Panel, 24 Port, 4 x 6	

Note: Other sizes can be customized according to your request.

Cable Entry

Cable Entry Boot Assembly Kit 4" (102mm)

Each Assembly cable entry boot include:

- 1. A outer boot. (EPDM Rubber or natural rubber)
- 2. A selectable inner cushion insert. (EPDM Rubber or natural rubber)
- 3. Two hose clamp. (Stainless steel)

The 4" cable entry boot, is made of EPDM rubber or natural rubber. The material is unaffected by ozone, sunlight, aging, or temperature extremes. It is to be installed to the 4" entry panel, and allow the various coaxial cable go into the shelter through them. One piece design for easy installation and superior water sealing properties.





Name	Matching cable	Item No.	Specification
		CES-BAK-12S-1	1/2"S x 1
		CES-BAK-12S-2	1/2"S x 2
		CES-BAK-12S-3	1/2"S x 3
		CES-BAK-12S-4	1/2"S x 4
	1/2" super flexible cable	CES-BAK-12S-5	1/2"S x 5
		CES-BAK-12S-6	1/2"S x 6
		CES-BAK-12S-7	1/2"S x 7
		CES-BAK-12S-8	1/2"S x 8
		CES-BAK-12S-9	1/2"S x 9
		CES-BAK-12-2	1/2" x 1
	1/2" cable	CES-BAK-12-2	1/2" x 2
Selectable Boot and Cushion		CES-BAK-12-3	1/2" x 3
Selectable Boot and Cushion		CES-BAK-12-4	1/2" x 4
		CES-BAK-12-5	1/2" x 5
		CES-BAK-12-6	1/2" x 6
		CES-BAK-12-7	1/2" x 7
		CES-BAK-12-8	1/2" x 8
		CES-BAK-78-1	7/8" x 1
	7/01 11	CES-BAK-78-2	7/8" x 2
	7/8" cable	CES-BAK-78-3	7/8" x 3
		CES-BAK-78-4	7/8" x 4
	1-1/4" cable	CES-BAK-114-1	1-1/4" x 1
	1-5/8" cable	CES-BAK-158-1	1-5/8" x 1
	2-1/4" cable	CES-BAK-214-1	2-1/4" x 1

Note: Other sizes can be customized according to your request.

Dust Cap (End Cap) For 4" Cable Entry Panel

Introduction:

Cable entry plate dust cap is made from rubber, will use match with cable entry panel with 4" (102mm) hole, it can against dust and water enter from the plate hole.



Item NO.:	CES-DC-4	
Item Name:	Cable Entry Plate Dust Cap	
Product Class:	Plate Cap	
Cap Material:	Black Rubber	
Color:	Black	
UV Resistance:	≥1000 hours	
Cap Size:	Round, for 4" entry plate	
Cap Packing:	Plastic Bag and carton	

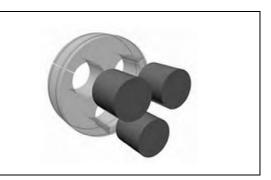
Cable Entry Cushion Plugs

Introduction:

The cushion plugs is made from rubber, the material is unaffected by ozone, sunlight, aging, or temperature extremes. It is to be installed to the cable cushion insert when the hole of cushion have not cable through.

Application:	Entry port solutions	
Size:	1/2"S to 2-1/4" coaxial cable	
Design:	Plugs for unused cushion holes	
Feature:	Allows for future expansion	
Mounts to	Cushion inserts	
Material:	EPDM rubber or natural rubber	
Includes:	Plugs only	





Full sizes of cushion plugs:

Name	Matching Cable	Item No.	Specification
	1/2" super flexible cable holes	CES-CP-12S	1/2"S
	1/2" cable holes	CES-CP-12	1/2"
Selectable Cushion	7/8" cable holes	CES-CP-78	7/8"
Plugs	1-1/4" cable holes	CES-CP-114	1-1/4"
	1-5/8" cable holes	CES-CP-158	1-5/8"
	2-1/4" cable holes	CES-CP-214	2-1/4"

Feed-Thru Boot Assemblies

Application: Entry port solutions Size: 4" (101.6 mm) Design: Compression boot for aluminum entry panels Feature: One-piece design simplifies installation Mounts to: Entry panels Material: EPDM rubber or natural rubber Includes: Boot, two hose clamps Order Separately: Cushion inserts, entry panel



Name	Description	Item No.
Feed-Thru Boot Assemblies	4" (101.6 mm) Feed-thru Boot Assembly, cushion not included	CES-FTB-4

Cushion Inserts

Application: Entry Port Solutions Size: Versions for coaxial cable Design: Compression fit round cushion Feature: Dependable seal Mounts to: Feed-thru boot assembly Material: EPDM rubber or natural rubber Includes: Cushion Insert only Order Separately: Feed-thru Boot assembly, Entry Panel



Cable Entry

Name	Matching cable	Item No.	Specification
		CES-CI-12S-1	1/2"S x 1
		CES- CI -12S-2	1/2"S x 2
		CES- CI -12S-3	1/2"S x 3
		CES- CI -12S-4	1/2"S x 4
	1/2" super flexible cable	CES- CI -12S-5	1/2"S x 5
		CES- CI -12S-6	1/2"S x 6
		CES- CI -12S-7	1/2"S x 7
		CES- CI -12S-8	1/2"S x 8
		CES- CI -12S-9	1/2"S x 9
		CES- CI -12-2	1/2" x 1
	1/2" cable	CES- CI -12-2	1/2" x 2
Selectable Cushion Insert		CES- CI -12-3	1/2" x 3
		CES- CI -12-4	1/2" x 4
		CES- CI -12-5	1/2" x 5
		CES- CI -12-6	1/2" x 6
		CES- CI -12-7	1/2" x 7
		CES- CI -12-8	1/2" x 8
		CES- CI -78-1	7/8" x 1
	7/0// 11	CES- CI -78-2	7/8" x 2
	7/8" cable	CES- CI -78-3	7/8" x 3
		CES- CI -78-4	7/8" x 4
	1-1/4" cable	CES- CI -114-1	1-1/4" x 1
	1-5/8" cable	CES- CI -158-1	1-5/8" x 1
	2-1/4" cable	CES- CI -214-1	2-1/4" x 1

Cushion Hanger Assemblies

Application: Coaxial cable support

Size: Versions for coaxial cable and elliptical waveguide cable

Design: Multi-run cushion hanger

Feature: Handles coaxial or waveguide

Material: EPDM rubber or natural rubber

Includes: Cushion, hose clamp, and clamp head, kit of 10

Order Separately: 3/8" or 10 mm mounting hardware kits

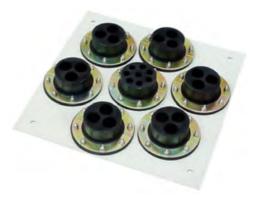


Cable Entry

Name	Matching cable	Item No.	Specification
		CES-CHA-12S-1	1/2"S x 1
		CES-CHA-12S-2	1/2"S x 2
		CES- CHA -12S-3	1/2"S x 3
		CES- CHA -12S-4	1/2"S x 4
	1/2" super flexible cable	CES- CHA -12S-5	1/2"S x 5
		CES- CHA -12S-6	1/2"S x 6
		CES- CHA -12S-7	1/2"S x 7
		CES- CHA -12S-8	1/2"S x 8
		CES- CHA -12S-9	1/2"S x 9
		CES- CHA -12-2	1/2" x 1
	1/2" cable	CES- CHA -12-2	1/2" x 2
Cashier Henry Assemblish		CES- CHA -12-3	1/2" x 3
Cushion Hanger Assemblies		CES- CHA -12-4	1/2" x 4
		CES- CHA -12-5	1/2" x 5
		CES- CHA -12-6	1/2" x 6
		CES-CHA -12-7	1/2" x 7
		CES- CHA -12-8	1/2" x 8
		CES- CHA -78-1	7/8" x 1
	7/0 11	CES- CHA -78-2	7/8" x 2
	7/8" cable	CES- CHA -78-3	7/8" x 3
		CES- CHA -78-4	7/8" x 4
	1-1/4" cable	CES- CHA -114-1	1-1/4" x 1
	1-5/8" cable	CES- CHA -158-1	1-5/8" x 1
	2-1/4" cable	CES- CHA -214-1	2-1/4" x 1

Cable Entry Panel ---Nut Type

Aluminum feed-thru entry panels enable multiple coax runs to enter buildings and shelters. These panels support the coax at the entry point and prevent moisture from entering the building. Each panel features 78mm openings to accept boot assemblies. Boot assembly kit are offered with a broad selection of hole patterns and plate sizes to match your exact application. These entries can be used in both interior and exterior wall.



Part No.	Description	Part No.	Description
CES-CEP-NT-11	Entry Panel, 1 Port, 1 x 1	CES-CEP-NT-24	Entry Panel, 8 Port, 2 x 4
CES-CEP- NT-12	Entry Panel, 2 Port, 1 x 2	CES-CEP-NT-25	Entry Panel, 10 Port, 2 x 5
CES-CEP-NT-13	Entry Panel, 3 Port, 1 x 3	CES-CEP-NT-26	Entry Panel, 12 Port, 2 x 6
CES-CEP-NT-14	Entry Panel, 4 Port, 1 x 4	CES-CEP-NT-33	Entry Panel, 9 Port, 3 x 3
CES-CEP-NT-22	Entry Panel, 4 Port, 2 x 2	CES-CEP-NT-34	Entry Panel, 12 Port, 3 x 4
CES-CEP-NT-23	Entry Panel, 6 Port, 2 x 3	CES-CEP-NT-36	Entry Panel, 18 Port, 3 x 6
CES-CEP-NT-7	Entry Panel, 7 Port,	CES-CEP-NT-44	Entry Panel, 16 Port, 4 x 4

Cable Entry Boot Assembly Kit--- Nut Type

Each Assembly cable entry boot include:

- 1. A selectable cushion boot. (EPDM Rubber or natural rubber)
- 2. A metal plate. (Galvanized steel)

The boot is made of EPDM rubber or natural rubber. The material is unaffected by ozone, sunlight, aging, or temperature extremes. It is to be installed to the entry panel, and allow the various coaxial cable go into the shelter through them. One piece design for easy installation and superior water sealing properties.



Introduction:

Application:	Entry port solutions	
Size:	Versions for coaxial cable	
Design:	Fit for nut type panels	
Feature:	Dependable seal	
Mounts to:	Nut type panels	
Material:	EPDM rubber, Galvanized steel	
Includes:	Cushion boot and metal plate	

Cable Entry

Name	Matching cable	Item No.	Specification
Selectable Boot Assembly Kit	1/2" super flexible cable	BAK-NT-12S-1	1/2"S x 1
		BAK-NT-12S-2	1/2"S x 2
		BAK-NT-12S-3	1/2"S x 3
		BAK-NT-12S-4	1/2"S x 4
		BAK-NT-12S-5	1/2"S x 5
		BAK-NT-12S-6	1/2"S x 6
		BAK-NT-12S-7	1/2"S x 7
		BAK-NT-12S-8	1/2"S x 8
	1/2" cable	BAK-NT-12-1	1/2" x 1
		BAK-NT-12-2	1/2" x 2
		BAK-NT-12-3	1/2" x 3
		BAK-NT-12-4	1/2" x 4
		BAK-NT-12-5	1/2" x 5
		BAK-NT-12-6	1/2" x 6
		BAK-NT-12-7	1/2" x 7
	7/8" cable	BAK-NT-78-1	7/8" x 1
		BAK-NT-78-2	7/8" x 2
		BAK-NT-78-3	7/8" x 3
	1-1/4" cable	BAK-NT-114-1	1-1/4" x 1
	1-5/8" cable	BAK-NT-158-1	1-5/8" x 1
	2-1/4" cable	BAK-NT-214-1	2-1/4" x 1

Passive Component



Passive Component

Dummy Load / Terminations

Description:

Dummy load is a means of termination microwave transmission line without much reflection. It is performed by microwave power absorption. Dummy load is used to provide launch for the signal from the end of the cable. Our coaxial dummy loads frequency are up to 3GHz(0-3000MHz) /6GHz /18GHz. The power capacity can be up to 300W. The convection-cooled Dry fixed Dummy loads (Terminations) are offered with impedance values of 50 Ohm. The max VSWR for our typical RF terminators is 1.2:1, 1.15:1 or 1.1:1 is also available.



Part No.	Frequence	Connector Type	Power	Picture
PC-DL-3-5-DM	3GHz	DIN male	5W	Contraction of the second seco
PC-DL-3-5-NM	3GHz	N male	5W	
PC-DL-3-5-NF	3GHz	N female	5W	
PC-DL-18-2-SMAM	18GHz	SMA male	2W	
PC-DL-18-5-SMAM	18GHz	SMA male	5W	

1w-5w Low Power Dummy Load / Terminations

* Note: Other Designs are Available on Request

10w-60w Medium Power Dummy Load / Terminations

Part No.	Frequence	Connector Type	Power	Picture
PC-DL-3-50-DM	3GHz	DIN male	50W	0.100
PC-DL-3-50-NM	3GHz	N male	50W	CTTO
PC-DL-3-50-NF	3GHz	N female	50W	
PC-DL-3-60-DM	3GHz	DIN male	60W	
PC-DL-3-10-NM	3GHz	N male	10W	Milliter
PC-DL-3-10-DM	3GHz	DIN male	10W	

75w-300w High Power Dummy Load / Terminations

Part No.	Frequence	Connector Type	Power	Picture
PC-DL-3-100-DM	3GHz	DIN male	100W	
PC-DL-3-100-DF	3GHz	DIN female	100W	
PC-DL-3-100-NM	3GHz	N male	100W	
PC-DL-8-100-NM	8GHz	N male	100W	
PC-DL-3-250-NF	3GHz	N female	250W	
PC-DL-3-300-SMAM	3GHz	SMA male	300W	

Coaxial Attenuator

RF attenuators, 500hm attenuator are RF site Passive components widely used as In-Building Solutions components. Our RF coax attenuator is manufactured to precise RF / microwave industry specifications.

Fixed RF attenuators are rated to 1W, 2W, 5W, 10W, 15W, 20W, 25W, 30W, 50W, 100W, 200W/Watts at the stated attenuation value of (3-60dB) 3 dB, 5dB, 6dB, 10dB, 15dB, 20dB, 25dB, 30dB...60dB. Typical Frequency of this coax attenuator can be 0-3000MHz/3GHz, 6GHz, 18GHz. Typical max VSWR is under 1.2:1, can be 1.15:1 even be 1.1:1.



Variable Attenuators include Rotary Attenuators and Step Attenuators.

When to purchase attenuators, it is important to consider primary parameters below:

- RF attenuator Attenuation: it depends on the ratio between the output and the input signal levels for the RF attenuators are used, for example: a 3dB attenuators can reduce the signal power to 1/2; a 6dB attenuators 1/4; 10db attenuators can reduce to 1/10; 20dB attenuators to 1/100...
- 2. *RF Fixed attenuator Power*: RF attenuators include 1W, 2W, 5W, 10W, 15W, 20W, 25W, 30W, 50W, 100W, 200W
- 3. RF Coaxial attenuator Frequency Range: The level of attenuation of a fixed attenuator varies with frequency, which may be caused by the frequency dependence on the resistors or other components used in the attenuator. The frequency range (or frequency bandwidth) that RF fixed coax attenuator covers: 3GHz, 4GHz, 6GHz, 8GHz, 18GHz
- 4. RF attenuator Accuracy: when the equipment is under the test, there will be a tolerance on the nominal level of attenuation.

Fixed Coaxial Attenuator

Part No.	Frequence	Attenuation	Connector Type	Power	Picture
PC-RFCA-3-100W-N	3GHz	0-60dB	N male to N female	100W	
PC-RFCA-3-10W-N	3GHz	0-60dB	N male to N female	10W	and the second
PC-RFCA-3-2W-N	3GHz	0-60dB	N male to N female	2W	ttenuato
PC-RFCA-3-100W-DIN	3GHz	0-60dB	DIN male to DIN female	100W	
PC-RFCA-18-2W-SMA	18GHz	0-12dB	SMA male to SMA female	2W	
PC-RFCA-3-2W-SMA	3GHz	0-30dB	SMA male to SMA female	2W	
PC-RFCA-3-5W-SMA	3GHz	0-40dB	SMA male to SMA female	5W	
PC-RFCA-3-5W-SMA	3GHz	0-30dB	SMA male to SMA female	5W	

Variable Coaxial Attenuators

Part No.	Freq.	Attenuatio n	Туре	Connector	Power	Picture
PC-RFCA-RK-6G-90/10-2W-SMA	6GHz	0-90dB / 10dB step	rotary knob	SMA	2W	
PC-RFCA-RK-6G-10/1-2W-SMA	6GHz	0-10dB / 1dB step	rotary knob	SMA	2W	
PC-RFCA-RK-2.5G-11/0.1-2W-SMA	2.5GHz		rotary knob / series connection	SMA	2W	
PC-RFCA-RK-3G-11/0.1-2W-SMA	3GHz	0-11dB /	rotary knob / series connection	SMA	2W	1 11
PC-RFCA-RK-4.3G-11/0.1-2W-SMA	4.3GHz	0.1dB step	rotary knob / series connection	SMA	2W	
PC-RFCA-RK-6G-11/0.1-2W-SMA	6GHz		rotary knob / series connection	SMA	2W	
PC-RFCA-RK-2.5G-50/1-2W-SMA	2.5GHz	0-50dB / 1dB step	rotary knob / series connection	SMA	2W	
PC-RFCA-RK-2.5G-70/1-2W-SMA	2.5GHz		rotary knob / series connection	SMA	2W	
PC-RFCA-RK-3G-70/1-2W-SMA	3GHz	0-70dB /	rotary knob / series connection	SMA	2W	0
PC-RFCA-RK-4.3G-70/1-2W-SMA	4.3GHz	1dB step	rotary knob / series connection	SMA	2W	
PC-RFCA-RK-6G-70/1-2W-SMA	6GHz		rotary knob / series connection	SMA	2W	
PC-RFCA-RK-2.5G-100/1-2W-SMA	2.5GHz	0-100dB /	rotary knob / series connection	SMA	2W	
PC-RFCA-RK-3G-100/1-2W-SMA	3GHz	1dB step	rotary knob / series connection	SMA	2W	
PC-RFCA-RKPC-6G-70/1-2W-SMA	6GHz	0-70dB	rotary knob / parallel connection	SMA	2W	
PC-RFCA-PB-2.5G-90/1-10W-N	2.5GHz	0-90dB / 1dB step	push button	N	10W	
PC-RFCA-PB-2.5G-60/1-10W-N	2.5GHz	0-60dB / 1dB step	push button	N	10W	1444444
PC-RFCA-PB-2.5G-30/1-10W-N	2.5GHz	0-30dB / 1dB step	push button	N	10W	
PC-RFCA-PB-2.5G-90/1-2W-SMA	2.5GHz	0-90dB / 1dB step	push button	SMA	2W	
PC-RFCA-PB-2.5G-60/1-2W-SMA	2.5GHz	0-60dB / 1dB step	push button	SMA	2W	· · · · · · · · · · · · · · · · · · ·
PC-RFCA-PB-2.5G-30/1-2W-SMA	2.5GHz	0-30dB / 1dB step	push button	SMA	2W	

RF power splitter/dividers

RF power splitter/dividers (also known as RF power tappers or coaxial splitters) are RF site components/passive devices that couple a defined amount of power in a transmission line to a port, the signal allowed to be used in another circuit. 50 Ohm power dividers have many RF applications including providing a signal for test and measurement, combining feeds to and from an antenna, splitting transmitted and received signals on phone lines and many others.

power splitter/divider include two series:

- 1. High power splitter/divider Series, also named: Cavity type power dividers; reactive dividers; Air-line dielectric type power dividers.
- 2. Low power splitters/dividers Series, also namedMicro-strip type resistive divider, Wilkinson Splitters



RF power dividers can be ordered with N, DIN, SMA gender connector types. 50 Ohm power dividers / coaxial splitters can be purchased in 2 Way, 3 Way, 4 Way, 6 Way, 8 Way or 12 Way port designs, frequency range is up to 350-2700MHz, 800-2500MHz, 698-2700MHz, 694-3800MHz, 800-3500MHz, 4000-8000MHz...

Key Features of Coax splitter components:

- Low PIM (< -153dBc; @ 2x +43dBm)
- Broad Frequency Range 350-430MHz, 698-2700 MHz, 694-3800MHz....
- Low Insertion Loss
- Any RF connector combination (BNC, SMA, N, TNC, 7/16DIN, F, reverse polarity and more)
- High Isolation
- Low VSWR
- Operating Temperature: $-20 \sim +70$ C

Cavity type power dividers---Round Type 800-2500MHz

Part No.	Frequence	Way	Connector	PIM	Application	Picture
PC-CPS-R-0825-120-DF-2			DIN	-120		
PC-CPS-R-0825-153-DF-2		2	Female	-153		41
PC-CPS-R-0825-120-NF-2		way	N Female	-120		11 - 19
PC-CPS-R-0825-153-NF-2			IN Female	-153		
PC-CPS-R-0825-120-DF-3			DIN	-120		62 20 20 20 20 20 20 20 20 20 20 20 20 20
PC-CPS-R-0825-153-DF-3		3	Female	-153		
PC-CPS-R-0825-120-NF-3		way	N Female	-120		
PC-CPS-R-0825-153-NF-3	800 2500 U			-153	In door or	
PC-CPS-R-0825-120-DF-4	800-2500MHz	DIN 4 Female	-120	outdoor		
PC-CPS-R-0825-153-DF-4			Female	-153		
PC-CPS-R-0825-120-NF-4		way		-120		
PC-CPS-R-0825-153-NF-4			N Female	-153		
PC-CPS-R-0825-120-DF-6			DIN	-120		U U
PC-CPS-R-0825-153-DF-6		6	Female	-153		4
PC-CPS-R-0825-120-NF-6		way	NErmal	-120		
PC-CPS-R-0825-153-NF-6			N Female			

* Note: Other Designs are Available on Request.

Cavity type power dividers---Round Type 698-2700MHz

Part No.	Frequence	Way	Connector	PIM	Application	Picture
PC-CPS-R-0727-120-DF-2			DIN	-120		
PC-CPS-R-0727-153-DF-2		2	Female	-153		
PC-CPS-R-0727-120-NF-2		way	N Female	-120		41 -49
PC-CPS-R-0727-153-NF-2			IN Female	-153		
PC-CPS-R-0727-120-DF-3			DIN	-120		62 20 20 20 20 20 20 20 20 20 20 20 20 20
PC-CPS-R-0727-153-DF-3		3	Female	-153		
PC-CPS-R-0727-120-NF-3		way N Female	-120	l		
PC-CPS-R-0727-153-NF-3	698-2700MHz			-153	indoor or	
PC-CPS-R-0727-120-DF-4	098-2700WIHZ	DI	DIN	-120	outdoor	
PC-CPS-R-0727-153-DF-4		4	Female	-153		
PC-CPS-R-0727-120-NF-4		way	N Female	-120		
PC-CPS-R-0727-153-NF-4			IN Female	-153		
PC-CPS-R-0727-120-DF-6			DIN	-120		
PC-CPS-R-0727-153-DF-6		6	Female	-153		1 41 1
PC-CPS-R-0727-120-NF-6		way		-120		
PC-CPS-R-0727-153-NF-6			N Female	-153		

Cavity type power dividers---Round Type 350-2700MHz

Part No.	Frequence	Way	Connector	PIM	Application	Picture
PC-CPS-R-03527-120-DF-2			DIN	-120		
PC-CPS-R-03527-153-DF-2		2	Female	-153		£
PC-CPS-R-03527-120-NF-2		way	N Female	-120		11
PC-CPS-R-03527-153-NF-2			N Female	-153		
PC-CPS-R-03527-120-DF-3			DIN	-120		62 28
PC-CPS-R-03527-153-DF-3		3	Female	-153	indoor or outdoor	
PC-CPS-R-03527-120-NF-3		way	N Female DIN	-120		
PC-CPS-R-03527-153-NF-3	350-2700MHz			-153		
PC-CPS-R-03527-120-DF-4	550-2700MHZ			-120		
PC-CPS-R-03527-153-DF-4		4	Female	-153		
PC-CPS-R-03527-120-NF-4		way	NErmala	-120		
PC-CPS-R-03527-153-NF-4			N Female	-153		
PC-CPS-R-03527-120-DF-6			DIN	-120		
PC-CPS-R-03527-153-DF-6		6	Female	-153		
PC-CPS-R-03527-120-NF-6		way	N Esmala	-120		
PC-CPS-R-03527-153-NF-6			N Female	-153		

* Note: Other Designs are Available on Request.

Cavity type power dividers---Round Type 1700-2500MHz

Part No.	Frequence	Way	Connector	PIM	Application	Picture
PC-CPS-R-1725-120-DF-2			DIN	-120		
PC-CPS-R-1725-153-DF-2		2	Female	-153		
PC-CPS-R-1725-120-NF-2		way	N El-	-120		
PC-CPS-R-1725-153-NF-2			N Female	-153		
PC-CPS-R-1725-120-DF-3			DIN	-120		
PC-CPS-R-1725-153-DF-3		3	Female	-153		
PC-CPS-R-1725-120-NF-3		way	N Female	-120	indoor or outdoor	
PC-CPS-R-1725-153-NF-3		IN F		-153		
PC-CPS-R-1725-120-DF-4	1700-2500MHz		DIN	-120		
PC-CPS-R-1725-153-DF-4		4	Female	-153		
PC-CPS-R-1725-120-NF-4		way	N Female	-120		
PC-CPS-R-1725-153-NF-4			IN Female	-153		
PC-CPS-R-1725-120-DF-6			DIN	-120		🔮 U
PC-CPS-R-1725-153-DF-6		6	Female	-153		e)
PC-CPS-R-1725-120-NF-6		way	N Female	-120		
PC-CPS-R-1725-153-NF-6			in relliate	-153		

Cavity type power dividers---Round Type 4G-8GMHz

Part No.	Frequence	Way	Connector	PIM	Application	Picture
PC-CPS-R-4080-120-DF-2			DIN Female	-120		
PC-CPS-R-4080-153-DF-2		2 way		-153		1
PC-CPS-R-4080-120-NF-2		2 way	N Esmala	-120		
PC-CPS-R-4080-153-NF-2			N Female	-153		
PC-CPS-R-4080-120-DF-3			DIN Famala	-120		
PC-CPS-R-4080-153-DF-3		DIN Female	-153			
PC-CPS-R-4080-120-NF-3		3 way	N Female	-120	In door or outdoor	
PC-CPS-R-4080-153-NF-3	4G-8GHz			-153		
PC-CPS-R-4080-120-DF-4	40-80HZ		DIN Female	-120		
PC-CPS-R-4080-153-DF-4		4		-153		
PC-CPS-R-4080-120-NF-4		4 way	N Female	-120		
PC-CPS-R-4080-153-NF-4			N Female	-153		
PC-CPS-R-4080-120-DF-6			DINE	-120		
PC-CPS-R-4080-153-DF-6		6	DIN Female	-153		
PC-CPS-R-4080-120-NF-6		6 way	N Female	-120		
PC-CPS-R-4080-153-NF-6			in remaie	-153		

* Note: Other Designs are Available on Request.

Cavity type power dividers---Square Type 800-2500MHz

Part No.	Frequence	Way	Connector	PIM	Application	Picture
PC-CPS-S-0825-120-DF-2			DIN	-120		
PC-CPS-S-0825-153-DF-2		2	Female	-153		
PC-CPS-S-0825-120-NF-2		way	N Female	-120		<u></u>
PC-CPS-S-0825-153-NF-2			N Female	-153		8
PC-CPS-S-0825-120-DF-3			DIN	-120		
PC-CPS-S-0825-153-DF-3		3	Female	-153		too and the second
PC-CPS-S-0825-120-NF-3		way N Female	-120		Cately Prove Cately Prove	
PC-CPS-S-0825-153-NF-3	800-2500MHz		IN FEILIAIE	-153	In door or outdoor	Ten, Con, Pener Se, Research all Tenes (1)
PC-CPS-S-0825-120-DF-4	800-2300MHZ		DIN	-120		
PC-CPS-S-0825-153-DF-4		4	Female	-153		
PC-CPS-S-0825-120-NF-4		way	N Female	-120		
PC-CPS-S-0825-153-NF-4			IN Female	-153		
PC-CPS-S-0825-120-DF-6			DIN	-120		The second se
PC-CPS-S-0825-153-DF-6		6	Female	-153		8
PC-CPS-S-0825-120-NF-6		way	N Female	-120		
PC-CPS-S-0825-153-NF-6			in remale	-153		

Cavity type power dividers---Square Type 698-2700MHz

Part No.	Frequence	Way	Connector	PIM	Application	Picture
PC-CPS-S-0727-120-DF-2			DIN	-120		
PC-CPS-S-0727-153-DF-2		2	Female	-153		
PC-CPS-S-0727-120-NF-2		way	N Female	-120		0
PC-CPS-S-0727-153-NF-2			IN Female	-153		8
PC-CPS-S-0727-120-DF-3			DIN	-120		
PC-CPS-S-0727-153-DF-3		3	Female	-153		The Construction Property of Construction Property of Construction Construction of Construction Construction
PC-CPS-S-0727-120-NF-3	1	way	N Female	-120	indoor or outdoor	
PC-CPS-S-0727-153-NF-3	698-2700MHz			-153		
PC-CPS-S-0727-120-DF-4	098-2700WHZ		DIN	-120		
PC-CPS-S-0727-153-DF-4		4	Female	-153		
PC-CPS-S-0727-120-NF-4		way	N Female	-120		N. N.
PC-CPS-S-0727-153-NF-4			IN Female	-153		1.0.
PC-CPS-S-0727-120-DF-6		DI	DIN	-120		B
PC-CPS-S-0727-153-DF-6		6	Female	-153		
PC-CPS-S-0727-120-NF-6		way	-120			
PC-CPS-S-0727-153-NF-6			N Female	-153		

* Note: Other Designs are Available on Request.

Cavity type power dividers---Square Type 350-2700MHz

Part No.	Frequence	Way	Connector	PIM	Application	Picture
PC-CPS-S-03527-120-DF-2			DIN	-120		
PC-CPS-S-03527-153-DF-2		2	Female	-153		
PC-CPS-S-03527-120-NF-2		way	N Female	-120		0
PC-CPS-S-03527-153-NF-2			IN Female	-153		8
PC-CPS-S-03527-120-DF-3			DIN	-120		
PC-CPS-S-03527-153-DF-3		3	Female	-153		The contraction of the second se
PC-CPS-S-03527-120-NF-3				-120		
PC-CPS-S-03527-153-NF-3	250 2700 44		N Female	-153	indoor or	
PC-CP-S-03527-120-DF-4	350-2700MHz		DIN	-120	outdoor	
PC-CPS-S-03527-153-DF-4		4	Female	-153		
PC-CPS-S-03527-120-NF-4		way	N Female	-120		
PC-CPS-S-03527-153-NF-4			N Female	-153		1.8
PC-CPS-S-03527-120-DF-6			DIN	-120		E .
PC-CPS-S-03527-153-DF-6		6	Female	-153		В
PC-CPS-S-03527-120-NF-6		way	NErmal	-120		
PC-CPS-S-03527-153-NF-6			N Female			

Cavity type power dividers---Square Type 1700-2500MHz

Part No.	Frequence	Way	Connector	PIM	Application	Picture
PC-CPS-S-1725-120-DF-2			DIN	-120		
PC-CPS-S-1725-153-DF-2		2	Female	-153		
PC-CPS-S-1725-120-NF-2		way	N Female	-120		0
PC-CPS-R-1725-153-NF-2			IN Female	-153		
PC-CPS-S-1725-120-DF-3			DIN	-120		
PC-CPS-S-1725-153-DF-3		3	Female	-153		
PC-CPS-S-1725-120-NF-3		way	NErmala	-120	indoor or	Amerikan Ame
PC-CPS-S-1725-153-NF-3	1700-2500MHz		N Female	-153		
PC-CPS-S-1725-120-DF-4	1700-2300WHZ		DIN	-120	outdoor	Ting Con-
PC-CPS-S-1725-153-DF-4		4	Female	-153		
PC-CPS-S-1725-120-NF-4		way	NErmala	-120		NT.
PC-CPS-S-1725-153-NF-4			N Female	-153		1.0.
PC-CPS-S-1725-120-DF-6			DIN	-120		H I
PC-CPS-S-1725-153-DF-6		6	Female	-153		H.
PC-CPS-S-1725-120-NF-6		way	N Female	-120		
PC-CPS-S-1725-153-NF-6			in remaie	-153		

* Note: Other Designs are Available on Request.

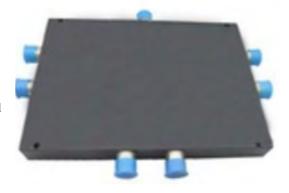
Cavity type power dividers---Square Type 4G-8GMHz

Part No.	Frequence	Way	Connector	PIM	Application	Picture	
PC-CPS-S-4080-120-DF-2			DIN Female	-120			
PC-CPS-S-4080-153-DF-2		2		-153			
PC-CPS-S-4080-120-NF-2		2 way	N Female	-120		6	
PC-CPS-S-4080-153-NF-2			IN Female	-153			
PC-CPS-S-4080-120-DF-3			DIN Female	-120			
PC-CPS-S-4080-153-DF-3		2	DIN Female	-153		The characteristic sector of the characterist	
PC-CPS-S-4080-120-NF-3		3 way		-120	In door or outdoor		
PC-CPS-S-4080-153-NF-3			N Female	-153			
PC-CPS-S-4080-120-DF-4	4G-8GHz		DIN Female	-120			
PC-CPS-S-4080-153-DF-4		4	DIN Female	-153			
PC-CPS-S-4080-120-NF-4		4 way	N Female	-120			
PC-CPS-S-4080-153-NF-4			N Female	-153			
PC-CPS-S-4080-120-DF-6		DIN F	DINE	-120			
PC-CPS-S-4080-153-DF-6			DIN Female	-153	-		
PC-CPS-S-4080-120-NF-6		6 way	N Female	-120]		
PC-CPS-S-4080-153-NF-6			in remaie	-153			

Micro-Strip Power Splitter (Low Power Divider/ splitter)

Micro-strip power splitter also named resistive power Divider/splitter, Micro-Strip splitter, Wilkinson Divider.

Resistive Power dividers can be used to split a single signal. Due to a resistive 50 ohm Power divider/splitter has identical insertion loss from any port to any other port, it acts much like a node in a mesh network. Because of their symmetric design, the isolation of a resistive divider/ splitter is equal to its insertion loss. Example: A 2-way resistive power divider/ splitter has 6dB of insertion from any port to any other port. All paths have 6dB of insertion loss. A RF resistive power divider/combiner has much higher insertion loss than reactive power divider/combiner. Example: 2-way



resistive = 6dB, 2-way reactive = 3dB. Some configurations such as 2 way, 3 way, 4 way, 6 way, 8 way are available as resistive power dividers than as reactive power dividers.

Micro-Strip Power Splitter 800-2500MHz

Part No.	Frequence	Way	Connector	Power	Application
PC-MSPS-0825-NF-2		2 way	N Female	50W	
PC-MSPS-0825-NF-3	800-2500MHz	3 way	N Female	50W	In door on outdoor
PC-MSPS-0825-NF-4	800-2300MHZ	4 way	N Female	50W	In door or outdoor
PC-MSPS-0825-NF-6		6 way	N Female	50W	

* Note: Other Designs are Available on Request.

Micro-Strip Power Splitter 700-2700MHz

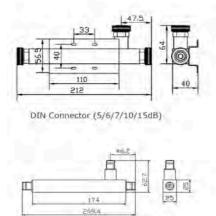
Part No.	Frequence	Way	Connector	Power	Application
PC-MSPS-0727-NF-2		2 way	N Female	50W	
PC-MSPS-0727-NF-3	700 2700MUz	3 way	N Female	50W	In door or outdoor
PC-MSPS-0727-NF-4	700-2700MHz	4 way	N Female	50W	In door or outdoor
PC-MSPS-0727-NF-6		6 way	N Female	50W	

* Note: Other Designs are Available on Request.

Micro-Strip Power Splitter 400-430MHz

Part No.	Frequence	Way	Connector	Power	Application
PC-MSPS-04043-NF-2		2 way	N Female	50W	
PC-MSPS-04043-NF-3	400-430MHz	3 way	N Female	50W	In door or outdoor
PC-MSPS-04043-NF-4	400-430MHZ	4 way	N Female	50W	
PC-MSPS-04043-NF-6		6 way	N Female	50W	

RF Power Tapper 694-2700MHz



N Connector (5/6/7/10/15dB)



N Connector (20/30/40dB)



	PC-PT-0727-	PC-PT-0727-	PC-PT-0727-	PC-PT-0727-1	PC-PT-0727-1	PC-PT-0727-	PC-PT-0727-	PC-PT-0727-			
D (N	5-N	6-N	7-N	0-N	5-N	20-N	30-N	40-N			
Part No.	PC-PT-0727-	PC-PT-0727-	PC-PT-0727-	PC-PT-0727-1	PC-PT-0727-1	PC-PT-0727-	PC-PT-0727-	PC-PT-0727-			
	5-D	6-D	7-D	0-D	20-D	30-D	40-D				
Coupling (dB)	5±1dB	6±1dB	7±1dB	10±1.2dB	15±1.3dB	20±1.3dB	30±1.5dB	40±2dB			
Insertion	1.954D	1 55 JD	1.24D	0.7dB	0.4dB	0.3dB	0.3dB	0.2dB			
Loss (dB)	1.85dB	1.55dB	1.3dB	0./08	0.40B	0.30B	0.30B	0.20B			
VSWR				≤1.2	35:1						
Frequency				604	2700						
(MHz)		694-2700									
Return		≤-16dB									
Loss(dB)				1.5	Sub						
Power (W)				200W	⁷ max						
Impedance(o				_							
hm)				5	0						
Connector				N female or	DIN female						
Temperature		-40°C~+80°C									
Relative		0.057									
humidity		0-95%									
Color				Black-plated or Sil	very-White Plated						

RF Hybrid Coupler/ RF Hybrid Combiner

An RF Hybrid Coupler (also named Hybrid Combiner) is a special configuration of a more generalized "RF Directional Coupler." The characteristic of the hybrid coupler is to divide the input power equally amongst the two output ports (assuming they are terminated properly).

Application: RF Hybrid Couplers are used in many circuit and system applications, such as Test & Measurement, RF amplifiers, transmitters and receivers.

The typical hybrid coupler is 3dB Hybrid Coupler, also known as 90 degree hybrid coupler also called Quadrature Hybrid Couplers. This requires the termination of one output port in 50 ohms, and results in a 3dB loss in each signal. In situations where two similar feeds are required—for example in-building applications—both outputs may be used, eliminating the need for a termination and the 3 dB loss. Coupled ports are 90° out of phase and the isolated port helps protect against mismatched loads on the



coupled ports. They are connectorized units. RF hybrid couplers offer low insertion loss, low VSWR and high power capability in a small package which are often required. These products are available in narrow and broadband bandwidths making them ideal for applications including, power amplifier, mixers, power dividers / combiners, modulators, antenna feeds, attenuators, switches and phase shifters. Performance grades range from low-cost commercial to rugged military. Those Hybrid combiner can be customized and meet or exceed critical performance and/or packaging specifications

Important Specific parameters when selecting the right RF Hybrid Coupler for your application include:

- -- Connector Type, N-Jack(F) or 7/16 DIN-Jack(F), or other customized type
- --Power (W), maximum input level;
- --Frequency Range (GHz) of Operation; Typical frequency band of hybrid coupler is 698-2700 MHz, 800-2500 MHz,350-520MHz or customized...
- --Isolation (dB);
- -- Insertion Loss (dB);
- -- VSWR (max ratio);
- --Customized and OEM is available.

Hybrid Coupler Series:

1. 3dB hybrid coupler, also known as 90 degree hybrid coupler, or 3dB hybrid combiners

2. 4x4 Port Hybrid Matrices (4 in, 4 out), which is used in RPT(Repeater) application, and IBS(In-Building Solustions)

application.



3dB Hybrid Coupler---800-2500MHz

Part No.	Frequence	PIM3	Connector	Power	Application	Picture
PC-HC-3dB-0825-3DF	800-2500MHz	-140	3 DIN Female	500W	In door or outdoor	

3dB Hybrid Coupler---700-2700MHz

Part No.	Frequence	PIM3	Connector	Power	Application	Picture
PC-HC-3dB-0727-4DF	700-2700MHz	-140	4 DIN Female	500W	In door or outdoor	OUT Self-sperificaer(19.1507) W Prequency/700-2700Mra W
PC-HCHS-3dB-0727-3NF	700-2700MHz	-140	3 N Female	200W	In door or outdoor	

3dB Hybrid Coupler---800-2700MHz

Part No.	Frequence	PIM3	Connector	Power	Application	Picture
PC-HC-3dB-0827-4NF	800-2700MHz	-140	4 N Female	200W	In door or outdoor	ų,
PC-HCHS-3dB-0827-3NF	800-2700MHz	-140	3 N Female	200W	In door or outdoor	
PC-HC-3dB-0827-3DINF	800-2700MHz	-140	3 DIN Female	500W	In door or outdoor	

3dB Hybrid Coupler---350-520MHz

Part No.	Frequence	Connector	Power	Application	Picture
PC-HC-3dB-035052-4SMAF	350-520MHz	4 SMA Female	200W	In door or outdoor	

* Note: Other Designs are Available on Request.

Hybrid Matrices 4X4, 700-2700MHz

Part No.	Frequence	Connector	Power	Application	Picture
PC-HC-HM-0727-44NF	698-2700MHz	4X4 N Female	100W	In door or outdoor	
PC-HC-HM-0727-44DF	698-2700MHz	4X4 DIN Female	200W	In door or outdoor	

* Note: Other Designs are Available on Request.

Hybrid Matrices 4X4, 800-2500MHz

Part No.	Frequence	Connector	Power	Application	Picture
PC-HC-HM-08252-44NF	800-2500MHz	4X4 N Female	100W	In door or outdoor	

RF combiner

RF combiner also know as RF power combiner, used for combining several incoming signals together and transmit one output signal. RF combiners include two type:

1.Same-band Combiner: combine multiple base stations of the same frequency band and/or technology onto a single feeder.

Enables antenna and feeder sharing for two base stations in the same frequency band as a BTS Combiner (Same Frequency). That is to say, it is used for Combining multiple base stations to common band.



Features and benefits:

- -Two Operators can share feeders, TMAs and antennas
- -Reduce CAPEX by minimizing hardware components on an installation
- -Improved installation quality by minimizing cable connections and hardware

Whether you are an operator or contractor, save operational expenditure where costly tower leasing fees are charged. Same-Band Combiners are designed and produced to be of high quality standards to ensure reliable operation in harsh tower environments. And Same-Band Combiners are also of cost-effect to meet the commercial need.

2. Multi-Band Combiners: combiners combine different dual frequency bands onto the same feeder systems.

Multi-Band Combiners will save CAPEX by minimizing hardware components during installation. Multi-Band Combiners are designed for cost effective antenna sharing for outdoor and indoor applications. Provides a wide range of Multi-Band Combiner products for 2G, 3G, 4G and LTE systems. The Multi-Band Combiners can be customized to combine specific frequency spectrums without incurring high insertion loss allowing operators to integrate their frequencies into a common antenna system with greater ease and efficiency.

Multi-Band Combiners Series include: Dual Band Combiners, Triplexes Band Combiners, Four Band Combiners. OEM is available!

We can do combiner all Bands for TETRA, LTE, GSM, CDMA, DCS, PCS, UMTS, Wi-Max, etc.

Dual band combiner

Part No.	CH1	CH2	Power	Connector	PIM3	Picture
PC-CB2-CDMA 2000/PHS-NF	CDMA2000 (800-960MHz)	PHS (1710-2170MHz)	200W	N-F	-120	
PC-CB2-CDMA 2000/PHS-NF-1	CDMA2000 (800-960MHz)	PHS (1710-2170MHz)	200W	N-F	-120	
PC-CB2-CDMA 2000&PHS/WL AN-NF	CDMA2000&PH S (800-960&1710-2 170MHz)	WLAN (2400-2500MHz)	200W	N-F	-120	
PC-CB2-GSM& DCS&TD/WLA N-NF	GSM&DCS&TD (885-954&1710-2 025&2300-2380 MHz)	WLAN (2400-2500MHz)	200W	N-F	-120	
PC-CB2-GSM& DCS/3G-NF	GSM&DCS (885-960&1710-1 880MHz)	3G (1920-2170MHz)	200W	N-F	-120	

Three band combiner

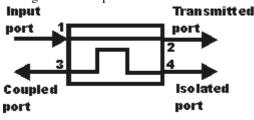
Part No.	CH1	CH2	СН3	Power	Connector	PIM3	Picture
PC-CB3-GSM& CDMA/DCS/W CDMA-NF		DCS (1710-1880M Hz)	WCDMA (2010-2025M Hz)	200W	N-F	-120	
PC-CB3-DCS/3 G/WLAN-NF	DCS (1710-1880MHz)	3G (1920-2170M Hz)	WLAN (2400-2500M Hz)	200W	N-F	-120	

RF Directional Coupler

An RF Directional Coupler is a four-port passive devices which accepts an input RF signal and divides it into 2 output signals. Engineers use it to couple a specific proportion of the power travelling in one transmission line out through another connection or port. RF Directional Couplers are used for sampling a signal, sometimes both the incident and reflected waves.



RF directional couplers are passive devices that couple part of the transmission power in a transmission line. Our RF directional couplers provide the bandwidth, high directivity and higher power that engineers need for their most demanding application designs. RF coaxial directional couplers often use two transmission lines set close together so that energy passing through one is coupled to the other.

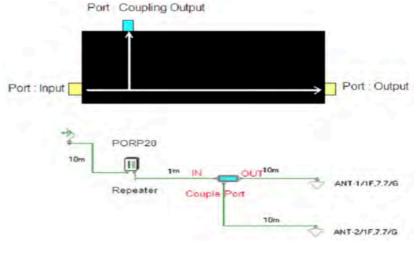


We carries coaxial-connectorized RF Directional Couplers, Our unique Air Dielectric designs directional coupler allow us to achieve better coupling flatness, low VSWR and low main line loss in small sizes. Depending upon the power, the cavity type can meet the high power application as high power directional couplers up to 300 watts. these connectorized directional couplers are available with SMA, N, 7/16 DIN connectors. Other connectors available upon request. Coaxial-Connectorized directional couplers are designed to be screw-down mounted to a heat sink. Availability in a wide range of coupling values makes this series useful in optimizing the power distribution required in passive in-building distributed antenna systems (DAS). The extremely wide frequency range allows use with multiband antennas and wireless base stations and leaky cable systems. With minimal solder joints and a low loss air dielectric, the dissipative loss has been minimized and reliability enhanced.

Features & Benefits

- Ultra wide-band, multi-section design
- Minimal RF Insertion Loss
- Rugged, high Reliability
- Low Passive Intermodulation (PIM3)
- Cavity type, can meet High power range.
- OEM or ODM is available.

Contact us for more information to RF Directional Coupler.



RF Directional Coupler with DIN Connector



	PC-DC-0825-5/6-D	PC-DC-0825-7/8-D	PC-DC-0825-10-D	PC-DC-0825-13/15-D	PC-DC-0825-20-D	PC-DC-0825-30-D
	PC-DC-0827-5/6-D	PC-DC-0827-7/8-D	PC-DC-0827-10-D	PC-DC-0827-13/15-D	PC-DC-0827-20-D	PC-DC-0827-30-D
L N	PC-DC-0725-5/6-D	PC-DC-0725-7/8-D	PC-DC-0725-10-D	PC-DC-0725-13/15-D	PC-DC-0725-20-D	PC-DC-0725-30-D
Item No.	PC-DC-0727-5/6-D	PC-DC-0727-7/8-D	PC-DC-0727-10-D	PC-DC-0727-13/15-D	PC-DC-0727-20-D	PC-DC-0727-30-D
	PC-DC-0738-5/6-D	PC-DC-0738-7/8-D	PC-DC-0738-10-D	PC-DC-0738-13/15-D	PC-DC-0738-20-D	PC-DC-0738-30-D
	PC-DC-013018-5/6-D	PC-DC-013018-7/8-D	PC-DC-013018-10-D	PC-DC-013018-13/15-D	PC-DC-013018-20-D	PC-DC-013018-30-D
Frequency (MHz)		800-2	500, 800-2700, 698-250	00, 698-2700, 700-3800, 13	0-180	
Insertion Loss	≤2.0 / ≤1.75	≤1.45 / ≤1.3	≤0.8	≤0.8 / ≤0.5	≤0.4	≤0.4
Coupling	5/6	7/8	10	13/15	20	30
Accuracy	±0.8 / ±0.8	±0.8 / ±0.8	±1.0	±1.0 / ±1.0	±1.2	±1.5
Isolation	≥25 /≥26	≥27 /≥28	≥28	≥31 / ≥32	≥35	≥45
VSWR			:	≤1.3		
PIM		≤-120dBc@	@2*43dBm, ≤-140dBo	c@2*43dBm, ≤-150dBc@	2*43dBm,	
Power			5	500W		
Impedance			50) ohm		
Connector			DI	N (7/16)		
Color			Blac	k-plated		
Temperature			-2	0~+70		
Application			In door or out	loor (IP60 or IP65)		
Humidity			59	6-95%		
Weight			abo	ut 0.9kg		
+) I 0 1	D · · · · ·	11 5				

RF Directional Coupler with N Connector



Item No. PC-DC-0827-5/6-N PC-DC-0827-7/8-N PC-DC-0827-10-N PC-DC-0827-13/15-N PC-DC-0827-20-N PC-DC-0827-3 PC-DC-0725-5/6-N PC-DC-0725-7/8-N PC-DC-0725-10-N PC-DC-0725-13/15-N PC-DC-0725-20-N PC-DC-0725-3 PC-DC-0727-5/6-N PC-DC-0727-7/8-N PC-DC-0727-10-N PC-DC-0727-13/15-N PC-DC-0727-20-N PC-DC-0727-3 PC-DC-0738-5/6-N PC-DC-0738-7/8-N PC-DC-0738-10-N PC-DC-0738-13/15-N PC-DC-0738-20-N PC-DC-0738-3							
Item No. PC-DC-0725-5/6-N PC-DC-0725-7/8-N PC-DC-0725-10-N PC-DC-0725-13/15-N PC-DC-0725-20-N PC-DC-0725-33 PC-DC-0727-5/6-N PC-DC-0725-7/8-N PC-DC-0727-10-N PC-DC-0727-13/15-N PC-DC-0727-20-N PC-DC-0727-33-3 PC-DC-0738-5/6-N PC-DC-0738-7/8-N PC-DC-0738-10-N PC-DC-0738-13/15-N PC-DC-0738-20-N PC-DC-0738-33-3 PC-DC-013018-5/6-N PC-DC-013018-7/8-N PC-DC-013018-10-N PC-DC-013018-13/15-N PC-DC-013018-20-ND PC-DC-013018-3 Frequency (MHz) S00-2500, 800-2700, 698-2500, 698-2700, 700-3800, 130-180 PC-DC-013018-20-ND PC-DC-013018-3/15-N PC-DC-013018-20-ND PC-DC-013018-3/15-N Insertion Loss $\leq 2.0 / \leq 1.75$ $\leq 1.45 / \leq 1.3$ ≤ 0.8 $\leq 0.8 / < 0.5$ ≤ 0.4		PC-DC-0825-5/6-N	PC-DC-0825-7/8-N	PC-DC-0825-10-N	PC-DC-0825-13/15-N	PC-DC-0825-20-N	PC-DC-0825-30-N
Item No. PC-DC-0727-5/6-N PC-DC-0727-7/8-N PC-DC-0727-10-N PC-DC-0727-13/15-N PC-DC-0727-20-N PC-DC-0727-38-3 PC-DC-0738-5/6-N PC-DC-0738-7/8-N PC-DC-0738-10-N PC-DC-0738-13/15-N PC-DC-0738-20-N PC-DC-0738-3 PC-DC-013018-5/6-N PC-DC-013018-7/8-N PC-DC-013018-10-N PC-DC-013018-13/15-N PC-DC-013018-20-ND PC-DC-013018-3 Frequency (MHz) S00-2500, 800-2700, 698-2500, 698-2700, 700-3800, 130-180 PC-DC-013018-30-ND		PC-DC-0827-5/6-N	PC-DC-0827-7/8-N	PC-DC-0827-10-N	PC-DC-0827-13/15-N	PC-DC-0827-20-N	PC-DC-0827-30-N
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	L N	PC-DC-0725-5/6-N	PC-DC-0725-7/8-N	PC-DC-0725-10-N	PC-DC-0725-13/15-N	PC-DC-0725-20-N	PC-DC-0725-30-N
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Item No.	PC-DC-0727-5/6-N	PC-DC-0727-7/8-N	PC-DC-0727-10-N	PC-DC-0727-13/15-N	PC-DC-0727-20-N	PC-DC-0727-30-N
Frequency (MHz) 800-2500, 800-2700, 698-2500, 698-2700, 700-3800, 130-180 Insertion Loss $\leq 2.0 / \leq 1.75$ $\leq 1.45 / \leq 1.3$ ≤ 0.8 $\leq 0.8 / \leq 0.5$ ≤ 0.4 ≤ 0.4 Coupling $5/6$ $7/8$ 10 $13/15$ 20 30 Accuracy $\pm 0.8 / \pm 0.8$ ± 1.0 $\pm 1.0 / \pm 1.0$ ± 1.2 ± 1.5 Isolation $\geq 25 / \geq 26$ $\geq 27 / \geq 28$ ≥ 28 $\geq 31 / \geq 32$ ≥ 35 ≥ 45 VSWR $\leq -120 dBc@2*43 dBm, \leq -140 dBc@2*43 dBm, \leq -150 dBc@2*43 dBm,$ PilM $\leq -120 dBc@2*43 dBm, \leq -160 dBc@2*43 dBm,$ Impedance 50 ohm		PC-DC-0738-5/6-N	PC-DC-0738-7/8-N	PC-DC-0738-10-N	PC-DC-0738-13/15-N	PC-DC-0738-20-N	PC-DC-0738-30-N
800-2500, 800-2700, 698-2500, 698-2700, 700-3800, 130-180 Insertion Loss $\leq 2.0 / \leq 1.75$ $\leq 1.45 / \leq 1.3$ ≤ 0.8 $\leq 0.8 / \leq 0.5$ ≤ 0.4 ≤ 0.4 Coupling $5/6$ $7/8$ 10 $13/15$ 20 30 Accuracy $\pm 0.8 / \pm 0.8$ ± 1.0 $\pm 1.0 / \pm 1.0$ ± 1.2 ± 1.5 Isolation $\geq 25 / \geq 26$ $\geq 27 / \geq 28$ ≥ 28 $\geq 31 / \geq 32$ ≥ 35 ≥ 45 VSWR $\leq -120dBc@2*43dBm, \leq -140dBc@2*43dBm, \leq -150dBc@2*43dBm,$ PIM $\leq -120dBc@2*43dBm, \leq -140dBc@2*43dBm, \leq -150dBc@2*43dBm,$ Impedance 50 ohm		PC-DC-013018-5/6-N	PC-DC-013018-7/8-N	PC-DC-013018-10-N	PC-DC-013018-13/15-N	PC-DC-013018-20-ND	PC-DC-013018-30-N
Coupling 5/6 7/8 10 13/15 20 30 Accuracy $\pm 0.8 / \pm 0.8$ $\pm 0.8 / \pm 0.8$ ± 1.0 $\pm 1.0 / \pm 1.0$ ± 1.2 ± 1.5 Isolation $\geq 25 / \geq 26$ $\geq 27 / \geq 28$ ≥ 28 $\geq 31 / \geq 32$ ≥ 35 ≥ 45 VSWR $\leq -120dBc@2*43dBm, \leq -140dBc@2*43dBm, \leq -150dBc@2*43dBm, < -150dBc@2*$			800-2	2500, 800-2700, 698-250	00,698-2700,700-3800,1	30-180	
Accuracy $\pm 0.8 / \pm 0.8$ ± 1.0 $\pm 1.0 / \pm 1.0$ ± 1.2 ± 1.5 Isolation $\geq 25 / \geq 26$ $\geq 27 / \geq 28$ ≥ 28 $\geq 31 / \geq 32$ ≥ 35 ≥ 45 VSWR $\leq -120dBc@2*43dBm, <<-140dBc@2*43dBm, <<-150dBc@2*43dBm, $	Insertion Loss	≤2.0 / ≤1.75	≤1.45 / ≤1.3	≤0.8	≤0.8 / ≤0.5	≤0.4	≤0.4
Isolation $\geq 25 / \geq 26$ $\geq 27 / \geq 28$ ≥ 28 $\geq 31 / \geq 32$ ≥ 35 ≥ 45 VSWR ≤ 1.25 PIM $\leq -120dBc@2*43dBm, \leq -140dBc@2*43dBm, \leq -150dBc@2*43dBm,Power300WImpedance50 \text{ ohm}$	Coupling	5/6	7/8	10	13/15	20	30
VSWR ≤1.25 PIM ≤-120dBc@2*43dBm, ≤-140dBc@2*43dBm, ≤-150dBc@2*43dBm, Power 300W Impedance 50 ohm	Accuracy	±0.8 / ±0.8	±0.8 / ±0.8	±1.0	±1.0 / ±1.0	±1.2	±1.5
PIM ≤-120dBc@2*43dBm, ≤-140dBc@2*43dBm, ≤-150dBc@2*43dBm, Power 300W Impedance 50 ohm	Isolation	≥25 /≥26	≥27 /≥28	≥28	≥31 / ≥32	≥35	≥45
Power 300W Impedance 50 ohm	VSWR			4	≤1.25		
Impedance 50 ohm	PIM		≤-120dBc@	@2*43dBm, ≤-140dBo	c@2*43dBm, ≤-150dBc0	@2*43dBm,	
	Power			3	500W		
Connector N connector	Impedance			50) ohm		
	Connector			N co	onnector		
Color Black-plated	Color			Blac	k-plated		
Temperature -20~+70	Temperature			-2	0~+70		
Application In door or outdoor (IP60 or IP65)	Application			In door or out	loor (IP60 or IP65)		
Humidity 5%-95%	Humidity			59	%-95%		
Weight about 0.23kg	Weight			abou	ıt 0.23kg		

RF Duplexers

A Duplexer (or sometimes also called diplexer) is a 3 ports device most commonly used to allow a transmitter and receiver to operate on different frequencies, to share a common antenna while operating simultaneously. The filters that make up the duplexer isolate the transmitter from the receiver by doing two important functions--Function1, to filter out any transmitter noise sidebands that are being generated on the receive frequency, function1 is the most important. Function2, to protect the receiver from transmitter carrier overload. The amount of isolation necessary is dependent upon the TX (Transport) to RX (Recieve) frequency spacing. As the frequencies get closer, a higher value of isolation is required.

A duplexer is an electronic device that allows bi-directional (duplex) communication over a single path. In radar and radio communications systems, it isolates the receiver from the transmitter while permitting them to share a common antenna. Most radio repeater systems include a duplexer. Duplexers can be based on frequency (often a waveguide filter), polarization (such as an orthomode transducer), or timing (as is typical in radar).

	$52-0301 \sqrt{172}, 1 \times 1000-0$	90ΙΝΙΠΖ			
E	RX	TX		Pic	ture
Frequence:	632-656MHz	680-698MHz			
Insertion loss:	≤1.2dB	≤1.2dB	1		-
Ripple:	≤0.2dB	≤0.2dB		۲	
Return Loss:	≥17dB	≥17dB		۲	8
Rejection:	≥60dB@680-698MHz	≥60dB@632-656MHz	•		
Impedance:	50 c	ohm		۲	
Insulation (dB):	≥2	20			-
					10 million (197

black

N-female

Duplexer RX:632-656MHz, TX:680-698MHz

Duplexer for GSM900

Color:

RF Connector:

Engavonage	RX	TX	Picture
Frequence:	880-915MHz	925-960MHz	
Insertion loss:	≤1.8dB	≤1.8dB	
Return Loss:	≥18dB	≥18dB	
Impedance:	50 c	ohm	
Insulation (dB):	≥2	20	
Color:	bla	ack	
RF Connector:	SMA-	female	

Duplexer for CDMA2000

Fraguanaat	RX	TX	Picture
Frequence:	1920-1940MHz	2110-2130MHz	
Insertion loss:	≤1.6dB	≤1.6dB	
Ripple:	≤0.8dB	≤0.8dB	
	1915MHz ≥18dB	2105MHz ≥18dB	
D : .:	1945MHz ≥18dB	2135MHz ≥10dB	1 美来名 克米弗法加
Rejection:	1910MHz ≥30dB	2100MHz ≥30dB	
	1950MHz ≥30dB	2140MHz ≥30dB	
VSWR	≤1	.25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Impedance:	50 0	ohm	
Insulation (dB):	2	90	
Color:	bla	ack	
RF Connector:	SMA-	female	

Duplexer for GSM1800

English	RX	TX	Picture
Frequence:	1710~1785MHz	1805~1880MHz	
Insertion loss:	≤1.5dB	≤1.5dB	
VSWR	≤]	1.3	
Impedance:	50 0	ohm	
Insulation (dB):	≥́	70	
Color:	bla	ack	And a state
RF Connector:	ANT: N-female R	RX/TX: SMA-female	

Duplexer for WCDMA

English	RX	TX	Picture
Frequence:	1940-1955MHz	2130-2145MHz	
In-band flatness:	0.7 (1940.4-1954.6/2130.4-2144.6)	0.7 (1940.4-1954.6/ 2130.4-2144.6)	
Insertion loss:	<1.7(1940.4-1954.6)	<1.0(2130.4-2144.6)	
	FO±2.5MHz ≥8dBc	≥10dBc	
Rejection:	FO±10MHz ≥15dBc	≥10dBc	
	FO±20MHz ≥60dBc	≥35dBc	
VSWR	≤1	.3	
Power:	≥25	0W	
Insulation (dB):	≥9	0	No.
Color:	bla	ck	
RF Connector:	N-fei	nale	

(«• Antenna



Antenna

RF antennas include two categories: directional antennas and omni-directional antennas. Directional antennas include in-ceiling dome RF antennas, Yagi antennas, Log-periodic antenna/LPDA, passive GPS and active GPS antennas, fixed and panel antenna.

Donor antenna: it is a outdoor antenna which provides the capacity from the BTS for the mobile users.

Service Antenna: Omni/directional In-building Antenna is placed at the end of the distributed

network and connected to the distributed network, to coverage the area where mobile user exists.

Indoor Omni Antenna

Indoor Omni Antenna is placed at the end of the signal distributed network and connected to the distributed network, to coverage the area where mobile user exists in building.

Application:

- ◆ CDMA / GSM / 3G / 2.4GHz WLAN / LTE
- Wireless pubic hotspot coverage
- ♦ Wireless communication & Data transmission.
- ♦ Indoor signal coverage
- ♦ TDD/FDD-LTE



Electrical Data		
		-
Frequency Range	698-960/1710-2700 MHz	
Bandwidth	262/990 MHz	
VSWR	≤2.0/≤1.5	
Gain	2.5/5dBi	
Input Impedance	50Ω	
Horizontal Beam width	360°	
Vertical Beam width	91°	
Polarization	Vertical	
Max.Power	50W	
Connector Type	N-F or Customer specify	
Lightning Protection	DC Ground	
Mechanical Data]
Weight	250g	
Dimension	Ø165×100mm	1

Electrical Specifications				
Frequency Range	698-960MHz	1710-188	0MHz	1880-2700MHz
Polarization	V	V		H+V
VSWR		≤]	.5	
Gain	2dBi			3dBi
Input Impedance		50)Ω	
Vertical Beamwidth	100-120)°		30-65°
Horizontal BeamWidth		36	60°	
Input Impedance		50)Ω	
Max. Power		50	W	
Lightning Protection	DC Ground			
Mechanical Specifications	5			
Connector Type	N-Female			
Dimensions		Ø200×130MM		
Radome Color		WI	nite	
Weight		0.7	/kg	
Reflector Material	Copper			
Radome Material	UV-PVC			
Operating Temperature	-40°C to +60 °C			
Wind Speed, Maximum		36.9	m/s	

Electrical Specifications					
Frequency Range	698-806MHz	806-960MHz	1710-2700MHz		
Polarization		Vertical			
VSWR	≤2.0	≤1.5	≤1.5		
Gain		4dBi			
Input Impedance		50Ω			
3dB BeamWidth		360°			
Horizontal BeamWidth		60°			
Input Impedance		50Ω			
Max. Power		50W			
Lightning Protection		DC Groun	d		
Mechanical Specification	S				
Connector Type		N-Female	;		
Dimensions	Ø	60×250 mm (Ø 2	36x63.5in)		
Mount Type		Mast Mour	nt		
Weight		1.0kg			
Reflector Material		Copper			
Radome Material		UV-PVC			
Radome Color	White				
Wind Speed, Maximum	216.0 km/h				
Operating Temperature		-40°C to +60 °C			
Mounting Pole		Ø38-Ø52r	nm		

Electrical Specification	18		
Frequency Range	698-960MHz	1710-2170MHz	
Polarization		V+H	
VSWR	≤2	≤1.8	
Gain	3dBi	4.5dBi	
Input Impedance	50Ω		
Vertical Angle	70°/40°		
Horizontal BeamWidth	360°		
Input Impedance	50Ω		
Max. Power	50W		
Lightning Protection	Direct Ground		
	Mechanical Specific	ations	
Connector Type	N-Female		
Dimensions	Ø210×37mm		
Radome Color	White		
Weight	0.45kg		
Reflector Material	Aluminum		
Radome Material	ABS		
Operating Temperature	-40°C to +60 °C		

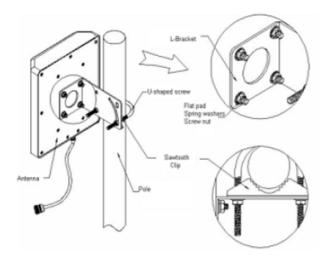
Indoor Panel Antenna

Panel Antenna is an antenna type that radiates in only a specific direction. Its uses wave guide technology to focus ingoing and outgoing radio signals into a focused, effective signal by concentrating their energy. A panel antenna is similar to a sector antenna, which is a directional antenna used in telecommunications for cell phone connectivity and wireless Internet. It also is called "patch antennas." Feature:

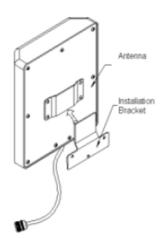
- Indoor coverage, such as hotels, office buildings, etc.
- compact structure, beautiful appearance
- Wireless communication & Data transmission.
- Indoor signal coverage
- Easy to install and operate

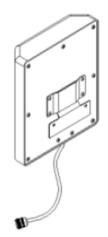


Electrical Specifications							
Frequency Range	698-806	806	-960	171	0-2500	2500-2700	
riquency Kange	MHz	Μ	Hz	Ν	/Hz		MHz
Polarization	Vertical						
VSWR	≤1.8		≤1.5		≤1.5	5	≤1.5
Gain			7/	8 dBi			
Input Impedance	50Ω						
Half-power Beamwidth	Hor:65° Ver:55°						
F/B Ratio			≥15dB				
PIM, 3rd Order C(2×33dBm 2W)		<-135dBc					
Max.Power	50W						
Lightning Protection	DC Ground						
Mechanical Specifications							
Connector	N-female (Copper)						
Connector Position	With 30cm low loss pigtail						
Dimensions			210×180×43mm				
Antenna weight			0.5kgs				
Packing size			53x32x41cm(20pcs)				
Reflector material	Aluminun		n				
Radome material	ABS						
Radome color	White						
Operating temperature	-			to +70	0°C		



Pole mounted





Wall mounted

Log Period Antenna

Frequency Range

Horizontal Beamwidth

Vertical Beamwidth

Gain

F/B ratio

VSWR

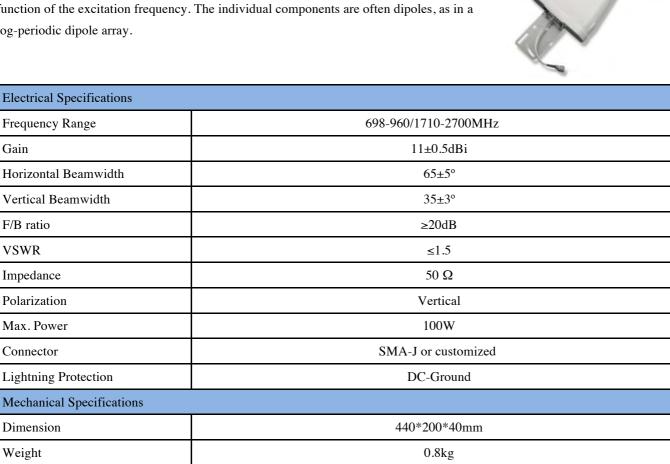
Impedance Polarization

Max. Power

Connector

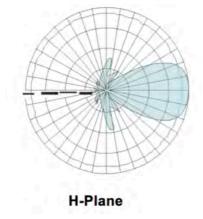
Lightning Protection

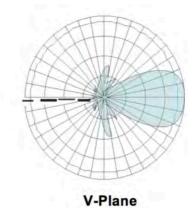
Log periodic antenna is a broadband, multi-element, directional, narrow-beam antenna that has impedance and radiation characteristics that are regularly repetitive as a logarithmic function of the excitation frequency. The individual components are often dipoles, as in a log-periodic dipole array.



Mechanical Specifications		
Dimension	440*200*40mm	
Weight	0.8kg	
Rated Wind Velocity	36.9 m/s	
Reflector material	Copper/Aluminum	
Operational Humidity	< 95%	
Radome Color	white	
Radome material	ABS	
Operating temperature	~40~55°C	

Radiation Patterns:





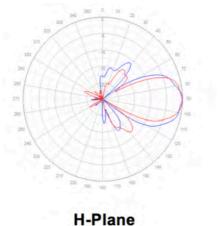
Directional Outdoor Panel Antenna

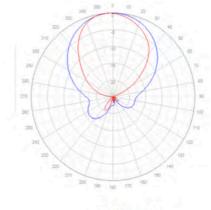
Panel antenna is directional antenna, panel antenna is a kind of mobile communications antenna, it is mainly used for outdoor coverage. Tabular antenna is widely used and extremely important base station antenna in GSM and CDMA. The advantage of this antenna is: high gain and good sector pattern, petals small, vertical direction Angle is easy to control, reliable sealing performance and long service life.



Electrical Specifications			
Frequency Range	698-960/1710-2700MHz		
Gain	10±1dBi		
Horizontal Beamwidth	60±8°		
Vertical Beamwidth	30±2°		
F/B ratio	≥20dB		
VSWR	≤1.8		
Impedance	50 Ω		
Polarization	Vertical		
Max. Power	100W		
Connector	7-16 DIN Female		
PIM, 3rd Order, 2 x 2 W	140dBc		
Mechanical Specifications			
Dimension	620*280*115mm		
Weight	about 4.7kg		
Reflector material	Cu/Al		
Operational Humidity	< 100 %		
Radome Color	white		
Radome material	PVC UV resistant		
Operating temperature	-40~60°		

Radiation Patterns:





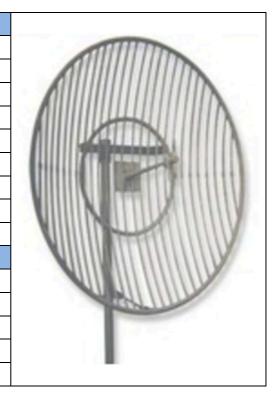
V-Plane

Grid parabolic antenna

ELECTRICAL	
Frequency Range	1920-2170-MHz
Bandwidth	250-MHz
Gain	17-dBi
F/B Ratio	≥18-dB
VSWR	≤1.5
Polarization	Vertical or Horizontal
Max power	100 -W
Nominal Impedance	50 -Ω
MECHANICAL	
Connector	N female or customized
Antenna Dimension	0.4x0.6-M
Weight	2.5-Kg
Material	Aluminum Alloy
Rated Wind Velocity	60-m/s



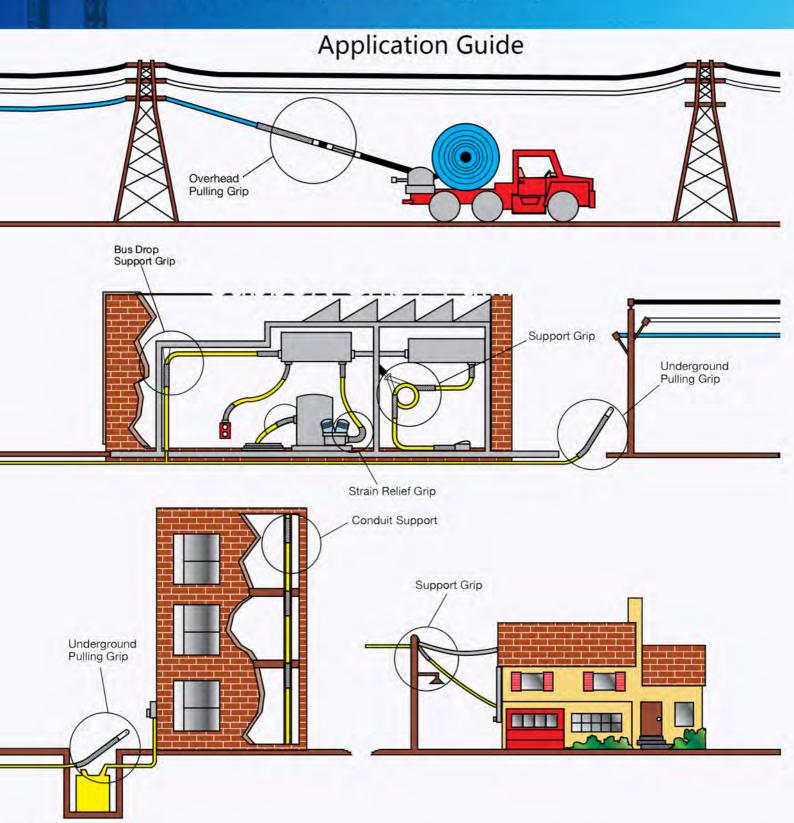
ELECTRICAL	
Frequency Range	824-896-MHz
Bandwidth	72-MHz
Gain	20-dBi
Beamwidth	H:13° E:13°
F/B Ratio	≥30-dB
VSWR	≤1.5
Polarization	Vertical
Max power	100 -W
Nominal Impedance	50 -Ω
MECHANICAL	
Connector	N female or customized
Antenna Dimension	1.5-M
Weight	25-Kg
Rated Wind Velocity	60-m/s
Mast Diameter	50 to 75-mm



Support Grip / Pulling Grip



Support Grip / Pulling Grip



Pulling Grips

Pulling Grips are reusable tools for pulling insulated conductors or bare wires, cable, nylon and wire rope, fiber optic cable etc. Both flexible eye and rotating eye attachments are available.

Strain-Relief Grips

Strain-Relief Grips are used to connect cable or flexible conduit to electrical enclosures and equipment. This prevents pullout and bending due to tension at the inner conductors at the point of termination.

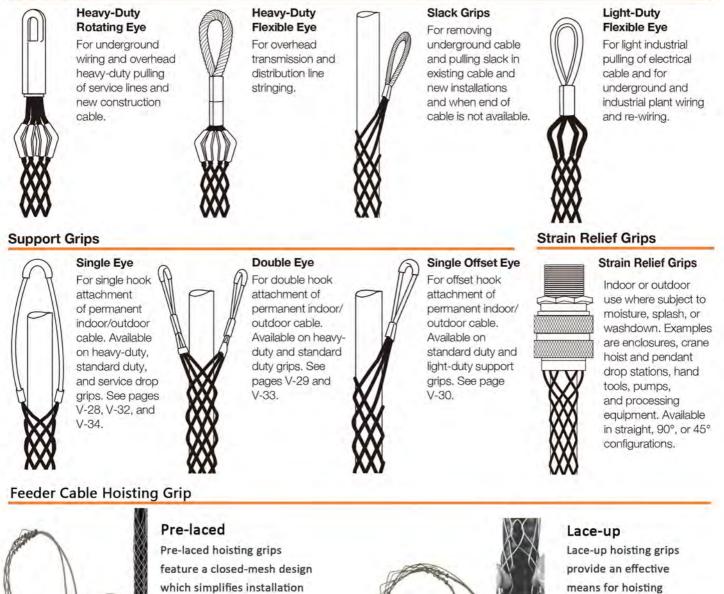
Support Grips

Support Grips distribute the weight of the vertical or sloping runs of electrical and fiber optic cable, over the entire length of the grip so that the cable is not subject to damage. These grips are also available in stainless steel for additional corrosion-resistance.

Support Grip / Pulling Grip

Selection Guide for Grip Applications

Pulling Grips



which simplifies installation over traditional split, lace-up style grips. The unique design allows the pre-laced hoisting grip to slip over an unterminated end of coax.

Fiber Optic Cable Support Grip & Pulling Grip



Fiber Optic Cable Grip

Fiber optic cable grip was used for the installation of fibre optic cables for either overhead or underground applications.

coax and elliptical

once in place.

waveguide into position

provide additional support

and can be utilized to

Support Grip / Pulling Grip

Non-Conductive Nylon Pulling Grips

Non-Conductive Pulling Grips were developed for use by utilities for pulling overhead distribution lines in close proximity to energized lines and hardware, made of a high strength nylon, are available for pulling single cable or cable bundles. Benefits

- Extra flexibility for easy installation.
- Non-metallic mesh provides for safe pulls over "hot" areas.
- Grips are corrosion resistant.

Nylon Pulling Grips-single eye, single weave, nylon, close mesh

Part No.	Cable Dia/Grip Length(mm)	Tensile Strength	Picture
NCPG-SESW-PA-225	2 x 25mm ² / 600	15kN	
NCPG-SESW-PA-235	2 x 35mm ² / 600	15kN	
NCPG-SESW-PA-250	2 x 50mm ² / 600	15kN	
NCPG-SESW-PA-295	2 x 95mm ² / 600	15kN	
NCPG-SESW-PA-335	3 x 35mm ² / 600	15kN	Care and the second sec
NCPG-SESW-PA-395	3 x 95mm ² / 600	25kN	
NCPG-SESW-PA-425	4 x 25mm² / 600	15kN	
NCPG-SESW-PA-435	4 x 35mm ² / 600	15kN	the second se
NCPG-SESW-PA-450	4 x 50mm ² / 600	15kN	
NCPG-SESW-PA-470	4 x 70mm ² / 800	17kN]
NCPG-SESW-PA-495	4 x 95mm ² / 800	25kN]
NCPG-SESW-PA-4150	4 x 150mm ² / 800	25kN	

Nylon Pulling Grips-offset eye, single weave, nylon, close mesh

Part No.	Cable Dia/Grip Length(mm)	Tensile Strength	Picture
NCPG-OESW-PA-225	2 x 25mm ² / 600	15kN	
NCPG-OESW-PA-235	2 x 35mm ² / 600	15kN	
NCPG-OESW-PA-250	2 x 50mm ² / 600	15kN	
NCPG-OESW-PA-295	2 x 95mm ² / 600	15kN	A CONTRACTOR OF THE OWNER OF THE
NCPG-OESW-PA-335	3 x 35mm ² / 600	15kN	
NCPG-OESW-PA-395	3 x 95mm ² / 600	25kN	
NCPG-OESW-PA-425	4 x 25mm ² / 600	15kN	
NCPG-OESW-PA-435	4 x 35mm ² / 600	15kN	NA NA
NCPG-OESW-PA-450	4 x 50mm ² / 600	15kN	V2A
NCPG-OESW-PA-470	4 x 70mm ² / 800	17kN	
NCPG-OESW-PA-495	4 x 95mm ² / 800	25kN	
NCPG-OESW-PA-4150	4 x 150mm ² / 800	25kN	

Support Grip / Pulling Grip

Hoisting Grip for Coaxial Cable And Elliptical Waveguide



Lace-up hoisting grip

Lace-up hoisting grips provide an effective means for hoisting coax and elliptical waveguide into position and can be utilized to provide additional support once in place. The lace-up design allows the hoisting grip to be attached even when the run has been connectorized and facilitates easy positioning at 200 (61m) increments on long coax runs.



Pre-laced hoisting grip

Pre-laced hoisting grips feature a closed-mesh design which simplifies installation over traditional split, lace-up style grips. The unique design allows the pre-laced hoisting grip to slip over an unterminated end of coax. The grip securely tightens when pulled, providing an effective means to hoist coax into position and to provide additional support for the coax once in place.

Characteristic	Lace-up hoisting grip	Pre-laced hoisting grip
Application	coax	coax support
Size.	3/8" to 2-1/4"	1/2" to 2-1/4"
Feature.	Lace up at any point on coax	Pre-laced to simplify installation
Design.	Open mesh with single eye support	Closed mesh with single eye support
Material.	Stainless steel or Tinned bronze	Stainless steel or Tinned bronze
Include.	Mesh Grip, lacing wire	Mesh Grip, support clamp

Design	Product code	Description
	HG12-L	Lace-up hoisting grip for 1/2" coax or LMR600 coax
	HG58-L	Lace-up hoisting grip for 5/8" coax or LMR900 coax
Lassur	HG78-L	Lace-up hoisting grip for 7/8" coax or LMR1200 coax
Lace-up	HG114-L	Lace-up hoisting grip for 1-1/4" coax or LMR1700 coax
	HG158-L	Lace-up hoisting grip for 1-5/8" coax or LMR1700 coax
	HG214-L	Lace-up hoisting grip for 2-1/4" coax or LMR1700 coax
	HG38-P / HG38S-P	Pre-laced hoisting grip for 3/8" flexible and super flexible coax
	HG12-P / HG12S-P	Pre-laced hoisting grip for 1/2" flexible and super flexible coax
	HG58-P	Pre-laced hoisting grip for 5/8" coax
Pre-laced	HG78-P	Pre-laced hoisting grip for 7/8" coax
	HG114-P	Pre-laced hoisting grip for 1-1/4" coax
	HG158-P	Pre-laced hoisting grip for 1-5/8" coax
	HG214-P	Pre-laced hoisting grip for 2-1/4" coax



Round Member Adapters

Name:	Round Member Adapters	000000000000000000000000000000000000000	Tanananan	
Material:	304 Stainless Steel	D	Kanasasasasasasasasasasasasasasasasasasa	
Size:	As Below	T/ T		MA SH T
Application:	Cable Support			
Item No.	Diameter Range	Width W (mm)	Thickness T (mm)	Weight (kg/100pcs)
RMA-1	14-27	12	0.6	1
RMA-2	18-32	12	0.6	1.3
RMA-3	21-44	12	0.6	1.61
RMA-4	27-51	12	0.6	1.7
RMA-5	33-57	12	0.6	1.8
RMA-6	40-63	12	0.6	1.9
RMA-7	46-70	12	0.6	2
RMA-8	52-76	12	0.6	2.2
RMA-9	59-82	12	0.6	2.36
RMA-10	65-89	12	0.6	2.5
RMA-11	72-95	12	0.6	2.6
RMA-12	78-101	12	0.6	2.7
RMA-13	84-108	12	0.6	2.75
RMA-14	91-114	12	0.6	2.8
RMA-15	105-127	12	0.6	3
RMA-16	118-140	12	0.6	3.4
RMA-17	130-152	12	0.6	3.5
RMA-18	141-165	12	0.6	3.7
RMA-19	155-178	12	0.6	4
RMA-20	175-197	12	0.6	4.3
RMA-21	194-216	12	0.6	4.4
RMA-22	213-235	12	0.6	4.9
RMA-23	232-254	12	0.6	5.3
RMA-24	251-273	12	0.6	5.6
RMA-25	270-292	12	0.6	6
RMA-26	289-311	12	0.6	6.2

* Note: Other Size are Available on Request.

Stainless Steel Single Ear Stepless Hose Clamp

Name:	Single Ear Stepless Hose Clamp	
Material:	304 Stainless Steel	Dimple Ear Ear width (s) Tongue-in-groove design
Size:	As Below	D.6 Interlock
Application:	Cable Support	
Part No.	SESHC-SS-*	Thickness

Model (d)	Adjusting diameter Range	Model (d)	Adjusting diameter Range	Model (d)	Adjusting diameter Range
11.9	9.4-11.9	33.1	29.9-33.1	77.0	73.8-77.0
12.3	9.8-12.3	34.6	31.4-34.6	78.5	75.3-78.5
12.8	10.3-12.8	36.1	32.9-36.1	80.0	76.8-80.0
13.3	10.8-13.3	37.6	34.4-37.6	81.5	78.3-81.5
13.8	11.3-13.8	38.1	34.9-38.1	83.0	79.8-83.0
14.0	11.5-14.0	39.6	36.4-39.6	84.5	81.3-84.5
14.5	12.0-14.5	41.0	37.8-41.0	86.0	82.8-86.0
14.8	12.3-14.8	42.5	39.3-42.5	87.5	84.3-87.5
15.3	12.8-15.3	44.0	40.8-44.0	89.0	85.8-89.0
15.7	13.2-15.7	45.5	42.3-45.5	90.5	87.3-90.5
16.2	13.7-16.2	47.0	43.8-47.0	92.0	88.8-92.0
16.6	14.1-16.6	48.5	45.3-48.5	93.5	90.3-93.5
16.8	14.3-16.8	50.0	46.8-50.0	95.0	91.8-95.0
17.0	14.5-17.0	51.5	48.3-51.5	96.5	93.3-96.5
17.5	15.0-17.5	53.0	49.8-53.0	98.0	94.8-98.0
17.8	14.6-17.8	54.5	51.3-54.5	99.5	96.3-99.5
18.0	14.8-18.0	56.0	52.8-56.0	101.0	87.8-101.0
18.5	15.3-18.5	57.5	54.3-57.5	102.5	99.3-102.5
19.2	16.0-19.2	59.0	56.8-59.0	104.0	100.8-104.0
19.8	16.8-19.8	60.5	57.3-60.5	105.5	102.3-105.5

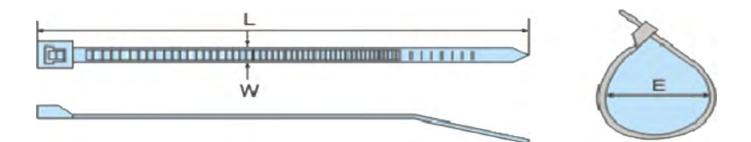
* Note: other size are available on request.

Nylon Cable Ties/Zip Ties

It is made of UL certified nylon 66 material and featuring 94V-2 fire-resistant grade, heat-resisting, acid & erosion control, insulate well, and not apt to age.

Color: White, UV black, and other colors available





T, NI	Length	Width	Max Diameter.	Min Strength
Item No.	mm	mm	mm	kg(lbs)
ZD100W (White)	100	2.5	22	8(18)
ZD100B (UV Black)	100	2.5	22	8(18)
ZD150W (White)	150	2.5	35	8(18)
ZD150B (UV Black)	150	2.5	35	8(18)
ZD200W (White)	200	2.5	53	8(18)
ZD200B (UV Black)	200	2.5	53	8(18)
ZD300W (White)	300	3.6	76	18(40)
ZD300B (UV Black)	300	3.6	76	18(40)
ZD400W (White)	400	4.8	105	22(50)
ZD400B (UV Black)	400	4.8	105	22(50)
ZD500W (White)	500	4.8	145	22(50)
ZD500B (UV Black)	500	4.8	145	22(50)
ZD650W (White)	650	8.8	178	78(172)
ZD650B (UV Black)	650	8.8	178	78(172)
		Others available by	requested.	

Stainlesu Steel Cable Tie--Ball Look Type

Characteristic:

Vj g{ 'j cxg"cp"wpks wg"dcmhqemkpi 'o gej cpkuo 'vj cv'cmqy "gcukn{ "cpf 's wkemn{ kpuvcmgf "cpf 'pqv'wpf qpg0J ki j 'vgpukrg"uvtgpi vj ."'pqp/ł co o cdkrkx{0' Y qtmkpi 'vgo r gtcwrtg</82¢372

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Uvckpnguu'uvggn'v{rg526.'538'''



Туре	Specification (mm)	Max bundied (mm)	Thickness (mm)	Packing (pcs/bag)
CT-SS-BL	4.6*100	23	0.25	100
CT-SS-BL	4.6*150	38	0.25	100
CT-SS-BL	4.6*200	52	0.25	100
CT-SS-BL	4.6*250	63	0.25	100
CT-SS-BL	4.6*300	82	0.25	100
CT-SS-BL	4.6*350	95	0.25	100
CT-SS-BL	4.6*400	116	0.25	100
CT-SS-BL	4.6*500	125	0.25	100
CT-SS-BL	4.6*600	154	0.25	100
CT-SS-BL	8*150	38	0.25	100
CT-SS-BL	8*200	52	0.25	100
CT-SS-BL	8*250	63	0.25	100
CT-SS-BL	8*300	82	0.25	100
CT-SS-BL	8*350	95	0.25	100
CT-SS-BL	8*400	114	0.25	100
CT-SS-BL	8*500	125	0.25	100
CT-SS-BL	8*600	154	0.25	100
CT-SS-BL	12*250	64	0.3	100
CT-SS-BL	12*300	82	0.3	100
CT-SS-BL	12*400	110	0.3	100
CT-SS-BL	12*500	140	0.3	100
CT-SS-BL	12*600	154	0.3	100

* Note: other size are available on request.

Stainless Steel Epoxy Coated Cable Tie--Ball Lock'V{rg

Characteristic:

They have an unique ball locking with plastic jetting mechanism that

allow easily and quickly installed and not undone.

High tensile strength; Non-flammability.

Working temperature: -40°C~85°C.

High resistance to acetic acid, alkali acid, sulphuric acid, acorrode ...etc.

All lenght are available,

Stainlesu'uvggn'"'v{ r g<'526.''538



Туре	Specification (mm)	Max bundied (mm)	Thickness (mm)	Packing (pcs/bag)
CT-SS-BL-CT	4.6*100	23	0.35	100
CT-SS-BL-CT	4.6*150	38	0.35	100
CT-SS-BL-CT	4.6*200	52	0.35	100
CT-SS-BL-CT	4.6*250	63	0.35	100
CT-SS-BL-CT	4.6*300	82	0.35	100
CT-SS-BL-CT	4.6*350	95	0.35	100
CT-SS-BL-CT	4.6*400	116	0.35	100
CT-SS-BL-CT	4.6*500	125	0.35	100
CT-SS-BL-CT	4.6*600	154	0.35	100
CT-SS-BL-CT	8*150	38	0.35	100
CT-SS-BL-CT	8*200	52	0.35	100
CT-SS-BL-CT	8*250	63	0.35	100
CT-SS-BL-CT	8*300	82	0.35	100
CT-SS-BL-CT	8*350	95	0.35	100
CT-SS-BL-CT	8*400	114	0.35	100
CT-SS-BL-CT	8*500	125	0.35	100
CT-SS-BL-CT	8*600	154	0.35	100
CT-SS-BL-CT	12*250	64	0.35	100
CT-SS-BL-CT	12*300	82	0.35	100
CT-SS-BL-CT	12*400	110	0.35	100
CT-SS-BL-CT	12*500	140	0.35	100
CT-SS-BL-CT	12*600	154	0.35	100

* Note: other size are available on request.

Stainless Steel Cable Tie -- LType



Stainless Steel Cable Tie

Material: Stainless steel 304,316. All length and color are available; Characteristic: easily and quickly installed and not undone, High tensile strength; Non-flammability High resistance to acetic aqcid, alkali acid,sulphuric, corrode...etc. Operating temperature: -40°C~85°C



Stainless Steel Epoxy Coated Cable Tie

Туре		Specification	Max bundied (mm)	Packing (pcs/bag)
Stainless Steel	Stainless Steel With Coated	(W X L) mm	Max bundled (IIIII)	Packing (pcs/bag)
CT-SS-L	CT-SS-L-CT	8x150	31	100
CT-SS-L	CT-SS-L-CT	8x200	47	100
CT-SS-L	CT-SS-L-CT	8x250	64	100
CT-SS-L	CT-SS-L-CT	8x300	79	100
CT-SS-L	CT-SS-L-CT	8x400	110	100
CT-SS-L	CT-SS-L-CT	8x500	140	100
CT-SS-L	CT-SS-L-CT	12x150	31	100
CT-SS-L	CT-SS-L-CT	12x200	47	100
CT-SS-L	CT-SS-L-CT	12x250	64	100
CT-SS-L	CT-SS-L-CT	12x300	79	100
CT-SS-L	CT-SS-L-CT	12x350	95	100
CT-SS-L	CT-SS-L-CT	12x400	110	100
CT-SS-L	CT-SS-L-CT	12x450	125	100
CT-SS-L	CT-SS-L-CT	12x500	140	100
CT-SS-L	CT-SS-L-CT	16x300	78	100
CT-SS-L	CT-SS-L-CT	16x400	110	100
CT-SS-L	CT-SS-L-CT	16x500	140	100
CT-SS-L	CT-SS-L-CT	16x600	175	100
CT-SS-L	CT-SS-L-CT	16x800	235	100
CT-SS-L	CT-SS-L-CT	16x1000	300	100

*Please contact us for more other size

Stainless Steel Banding (Naked / PVC Covered / Epoxy Coated)-(CT-SSB)

Material: Stainless steel 304, 316; Naked, PVC Covered, Epoxy Coated;

All length and color are available, special product can made according to customers's sample.

Features: high acid resistance, corrosion resistance and tensile strength; non-flammable; easy and convenient use.

Operating temperature: -40°C~85°C



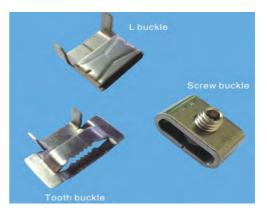
Size	Size Length/Roll	Breaking Tensile Strength	Width	Thickness	Weight Per Tote
		lbs	mm	mm	kgs
1/4"	100ft	475	6.4	0.51	0.77
3/8"	100ft	1040	9.6	0.63	1.45
1/2"	100ft	1710	12.7	0.76	2.31
5/8"	100ft	1940	15.9	0.76	2.9
3/4"	100ft	2290	19.1	0.76	3.5

Part No.: CT-SSB

Tooth Buckle, L Buckle, Screw Buckle (CT-SS-BK)

Stainless steel buckles are manufactured from high quality 201, 304, 316, stainless steel, to match the stainless steel strip. Buckles are generally used for heavy duty banding or strapping.

The core feature of the stainless steel buckle is it's strength. This feature is due to the single stainless steel pressing design which allows for construction without joins or seams. The buckles are available in matching 1/4", 3/8", 1/2", 5/8", and 3/4" widths and with the exception for the 5/8" buckles, accommodates the double-wrap application to solve heavier duty clamping requirements.



Size	Std. Box	Match Banding Size		Thickness	Weight Per Box
0120		inch	mm	mm	kgs
1/4"	100	1/4"	6.4	1	0.14
3/8"	100	3/8"	9.6	1	0.37
1/2"	100	1/2"	12.7	1	1.09
5/8"	100	5/8"	15.9	1.2	1.22
3/4"	100	3/4"	19.1	1.2	1.77

Stainless Steel Cable Tie or Banding Installation Tools







A started and the started and

CT-SS-IT-1

Suitable for stainless steel cable ties of width 2.4mm to 9.0mm. Feature: fast fastening wires and cables and automatically cut off the left part, simple to operate.

Material: Metal Length: 205mm Weight; 0.595kg

CT-SS-IT-2

Suitable for stainless steel cable ties of width 2.4mm to 9.0mm. Feature: fast fastening wires and cables and automatically cut off the left part, simple to operate. Material: Metal

Length: 205mm Weight; 0.595kg

CT-SS-IT-3

Suitable for stainless steel cable ties of width 8mm to 16mm. Feature: easy cut off and remove the left ties, long life time. Material: metal

CT-SS-IT-4

Suitable for stainless steel cable ties of width 10mm to 25mm. Feature: easy cut off and remove the left ties, long life time. Material: metal

Attachment Hardware

Material: 304 stainless steel Size: 3/8" or M6 or M8 or M10



Flat Washer



Hex Nut



Lock Washer



Hardware Set

Bolt

Part No.	Product	Description
АН-НВ-38114	Hex Bolt	3/8" x 1-1/4"
AH-FW-38	Flat Washer	3/8"
AH-LW-38	Lock Washer	3/8"
AH-HN-38	Hex Nut	3/8"
AH-HS-38	Hardware set	3/8"
AH-SB-38134	Square Bolt	3/8" x 1-3/4"
AH-HB-M6114	Hex Bolt	M6 x 1-1/4"
AH-FW-M6	Flat Washer	M6
AH-LW-M6	Lock Washer	M6
AH-HN-M6	Hex Nut	M6
AH-HS-M6	Hardware set	M6
AH-HB-M8114	Hex Bolt	M8 x 1-1/4"
AH-FW-M8	Flat Washer	M8
AH-LW-M8	Lock Washer	M8
AH-HN-M8	Hex Nut	M8
AH-HS-M8	Hardware set	M8
AH-SB-M8134	Square Bolt	M8 x 1-3/4"
AH-HB-M10114	Hex Bolt	M10 x 1-1/4"
AH-FW-M10	Flat Washer	M10
AH-LW-M10	Lock Washer	M10
AH-HN-M10	Hex Nut	M10
AH-HS-M10	Hardware set	M10
AH-SB-M10134	Square Bolt	M10 x 1-3/4"

Hanger Hardware Kit

Application: Coaxial cable support Size: 3/8" or M8 or M10 Design: Hardware kit for hanger attachment to member Material: Stainless steel Includes: Bolts, nuts, lock washers, kit of 10



Part No.	Description
ННК-3834	Hanger hardware kit, 3/8" x 3/4", slotted hex head bolts, lock washers and hex nuts.
ННК-381	Hanger hardware kit, 3/8" x 1", slotted hex head bolts, lock washers and hex nuts.
ННК-М819	Hanger hardware kit, M8 x 19mm, slotted hex head bolts, lock washers and hex nuts.
ННК-М825.4	Hanger hardware kit, M8 x 25.4mm, slotted hex head bolts, lock washers and hex nuts.
HHK-M1019	Hanger hardware kit, M10 x 19mm, slotted hex head bolts, lock washers and hex nuts.
ННК-М1025.4	Hanger hardware kit, M10 x 25.4mm, slotted hex head bolts, lock washers and hex nuts.

Mounting Hardware Kits for Coax Support Blocks

Application: Coaxial cable support Size: 3/8" or M8 or M10 Design: 1, 2, and 3-stack threaded rod kits Feature: Stacks coaxial cable blocks Material: Galvanized steel Includes: Threaded rod and hardware, kit of 10



Part No.	Description
SBHK-38	3/8" Hardware Kits, include 1 threaded rod (length can be customized) and 2 nuts, 2 flat washer, 2 lock washer.
SBHK-M8	M8 Hardware Kits, include 1 threaded rod (length can be customized) and 2 nuts, 2 flat washer, 2 lock washer.
SBHK-M10	M10 Hardware Kits, include 1 threaded rod (length can be customized) and 2 nuts, 2 flat washer, 2 lock washer.

Single Wall Heat Shrink Tube

Single wall heat shrinkable tubing is used in the electronics, automotive,

military&aerospace sectors in a variety of applications including:

- Mechanical Protection
 Abrasion Protection
- Moisture Protection
 Cable Insulation
- Strain Relief
- Marking & Bundling of electronic components

Features

- Flexible, Flame retardant
- Shrink Ratio: 2:1 or 3:1 for selectable
- Low smoke generation if burning
- Continuous operating temperature:-55°C to 125 °C
- Start shrink temperature:≥84°C
- Finish shrink temperature:≥120°C



Single Wall Heat Shrink Tube (Shrink Ratio: 2:1)----HST-SW-2X-H

Physical

Property	Test Method	Typical Performance	
Tensile Strength	ASTM D2671	≥10.4Mpa	
Tensile Strength after Heat aging	UL 224 158°C X168hrs	≥7.3Mpa	
Elongation after Heat aging UL 224 158°C X 168hrs ≥100 ⁴		≥100%	
Heat shock	UL 224 250°C X 4HRS	NO dripping NO cracking	

Electrical

Property	Test Method	Typical Performance
Dielectric Strength	IEC 243	≥15kv/mm
Volume Resistivity	IEC 93	≥1 x 10 ¹⁴ Ω.cm

Chemical

Property	Test Method	Typical Performance
Corrosion Action	UL 224 158°C X 168hrs	PASS
Copper Compatibility	UL 224 158°C X 168hrs	PASS

Dimension:

SIZE	AS SUPPLIED	AFTER RECOVERY		STANDARD
				PACKAGE
mm	INTERNAL DIAMETER (mm)	INTERNAL DIAMETER	WALL THICKNESS	SPOOL LENGTH M/spoo
* 0 0	1100	MAX(mm)	NOM (mm)	
Φ0.8	1.1±0.2	≤0.5	0.33±0.1	200
Φ1.0	1.5±0.2	≤0.65	0.36±0.1	200
Φ1.5	2.0±0.2	≤0.85	0.36±0.1	200
Φ2.0	2.5±0.2	≤1	0.45±0.1	200
Φ2.5	3.0±0.2	≤1.3	0.45±0.1	200
Φ3.0	3.5±0.2	≤1.5	0.45±0.1	200
Φ3.5	4.0±0.2	≤1.8	0.45±0.1	200
Φ4.0	4.5±0.2	≤2	0.45±0.1	200
Φ4.5	5.0±0.2	≤2.3	0.45±0.1	200
Φ5.0	5.5±0.2	≤2.5	0.56±0.1	100
Φ5.5	6.0±0.2	≤2.75	0.56±0.1	100
Φ6.0	6.5±0.2	≤3	0.56±0.1	100
Φ7.0	7.5±0.3	≤3.5	0.56±0.1	100
Φ8.0	8.5±0.3	≤4	0.56±0.1	100
Φ9.0	9.5±0.3	≤4.5	0.56±0.1	100
Φ10	10.5±0.3	≤5	0.56±0.1	100
Φ11	11.5±0.3	≤5.5	0.56±0.1	100
Φ12	12.5±0.3	≤6	0.56±0.1	100
Φ13	13.5±0.3	≤6.5	0.7±0.1	100
Φ14	14.5±0.3	≤7	0.7±0.1	100
Φ15	15.5±0.4	≤7.5	0.7±0.1	100
Φ16	16.5±0.4	≤8	0.7±0.1	100
Φ17	17.5±0.4	≤8.5	0.7±0.1	100
Φ18	19.0±0.5	≤9	0.7±0.1	100
Φ20	22.0±0.5	≤10	0.8±0.15	100
Ф22	24.0±0.5	≤11	0.8±0.15	100
Ф25	26.0±0.5	≤12.5	0.9±0.15	50
Φ28	29.0±0.5	≤14	0.9±0.15	50
Φ30	31.5±1.0	≤15	1.0±0.15	50
Φ35	36.5±1.0	≤17.5	1.0±0.15	50
Φ40	41.5±1.0	≤20	1.0±0.15	50
Φ50	≥50	≤25	1.1±0.15	25
Φ60	≥60	≤30	1.2±0.15	25
Φ70	≥70	≤35	1.3±0.15	25
Φ80	≥80	≤40	1.3±0.20	25
Φ90	≥90	≤45	1.3±0.20	25

SIZE	AS SUPPLIED	AFTER RECOVERY		STANDARD PACKAGE
mm	INTERNAL DIAMETER (mm)	INTERNAL DIAMETER MAX(mm)	WALL THICKNESS NOM (mm)	SPOOL LENGTH M/spool
Φ100	≥100	≤50	1.3±0.20	25
Φ120	≥120	≤60	1.3±0.20	25
Φ150	≥150	≤75	1.3±0.20	25
Φ180	≥180	≤90	1.3±0.20	25
Φ210	≥210	≤105	1.3±0.30	25
Ф230	≥230	≤115	1.3±0.30	25
Φ250	≥250	≤125	1.3±0.30	25
Φ300	≥300	≤150	1.3±0.30	25

Single Wall Heat Shrink Tube (Shrink Ratio: 3:1)----HST-SW-3X-H

Dimension:

SIZE	AS SUPPLIED	AFTER RECOVERY		STANDARD PACKAGE
	INTERNAL DIAMETER	INTERNAL DIAMETER	WALL THICKNESS	SPOOL LENGTH
mm	(mm)	MAX (mm)	NOM (mm)	M/spool
1.5	1.5	0.50	0.45	200
3.0	3.0	1.00	0.55	200
4.5	4.5	1.00	0.6	100
6.0	6.0	2.00	0.65	100
9.0	9.0	3.00	0.75	50
12.0	12.0	4.00	0.75	50
15.0	15.0	5.00	0.8	50
18.0	18.0	6.00	0.85	50
24.0	24.0	8.00	1	25
30.0	30.0	10.00	1.15	1.22
39.0	39.0	13.00	1.5	1.22
50.0	50.0	16.00	2.5	1
60.0	60.0	20.00	2.6	1
70.0	70.0	23.00	2.6	1
80.0	80.0	26.00	2.6	1
90.0	90.0	30.00	2.6	1
100.0	100.0	33.00	2.6	1

Dual Wall (Adhesive-Lined) Heat Shrink Tube

Adhesive lined heat shrink tubing with environmental sealing capability for a wide variety of electrical applications, including automotive and marine, wire harness, wire splices, breakouts, and connector-to-cable transitions.

Dual Wall Heat Shrink Tube (Shrink Ratio: 2:1)----HST-DW-2X -H

Features:

- 2:1 shrink ratio
- Longitudinal shrink ratio: ≤8%
- Out jacket flame retardant
- Super sealing against water, moisture or other

contaminants

• Continuous operating temperature:-45°C to 125 °C



Technical Data

Property	Test Method	Standard
Tensile Strength(Mpa)	ASTM D2671	≥10.4
Elongation	ASTM D2671	≥300
Tensile Strength after aging	UL 224 158°C X 168hrs	≥7.3
Elongation after aging(%)	UL 224 158°C X 168hrs	≥200
Dielectric Strength	IEC243	≥15
Volume Resistivity	ASTM D876	$\geq 1 \times 10^{14}$

Hot Melt Adhesive

Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤0.2%
Softening Point	ASTM E8	95°C
Strength of pearing(PE)	ASTM D1000	120N/25MM
Strength of pearing(AL)	ASTM D1000	80N/25MM

Dimensions:

SIZE	AS SUPPLIED	AFTER RECOVRY		STANDARD PACKAGE		
(mm)	INTERNAL DIAMETER	INTERMAL	TOTAL WALL	ADHESIVE	SPOOL LENGTH (M/spool)	
(11111)	(mm)	DIAMEMTER (mm)	THICKNESS (mm)	THICKNESS (mm)		
1.6	1.6	0.8	0.60±0.15	0.30±0.1	200	
2.4	2.4	1.2	0.70±0.15	0.35±0.1	200	
3.2	3.2	1.6	0.70±0.15	0.35±0.1	200	
4.8	4.8	2.4	0.80±0.15	0.40±0.1	100	
6.4	6.4	3.2	0.80±0.15	0.40±0.1	100	
7.9	7.9	3.9	0.90±0.15	0.45±0.1	100	
9.5	9.5	4.8	0.90±0.15	0.45±0.1	1.22	
12.7	12.7	6.4	0.95±0.20	0.45±0.1	1.22	
15.9	15.9	7.9	0.95±0.20	0.45±0.1	1.22	
19.1	19.1	9.5	1.0±0.20	0.45±0.1	1.22	
25.4	25.4	12.7	1.1±0.20	0.50±0.1	1.22	
31.8	31.8	15	1.15±0.20	0.50±0.1	1.22	
38.1	38.1	19	1.25±0.20	0.50±0.1	1.22	
44.5	44.5	22	1.35±0.20	0.55±0.1	1.22	
50.8	50.8	25.4	1.5±0.25	0.60±0.1	1.22	

Dual Wall Heat Shrink Tube (Shrink Ratio: 3:1)----HST-DW-3X -H

Features:

- 3:1 shrink ratio
- Longitudinal shrink ratio: $\leq 8\%$
- Outer jacket flame retardant
- Super sealing against water, moisture or other contaminants
- Continuous operating temperature:-45°C to 125 °C
- Shrink temperature:120°C

Technical Data

Property	Test Method	Standard
Tensile Strength(Mpa)	ASTM D2671	≥10.4
Elongation	ASTM D2671	≥300
Tensile Strength after aging(Mpa)	UL 224 158°C X 168hrs	≥7.3
Elongation after aging(%)	UL 224 158°C X 168hrs	≥200
Dielectric Strength(kv/mm)	IEC243	≥15
Volume Resistivity(Ω.cm)	ASTM D876	$\geq 1 \times 10^{14}$

Hot Melt Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤0.2%
Softening Point	ASTM E8	95°C
Strength of pearing(PE)	ASTM D1000	120N/25MM
Strength of pearing(AL)	ASTM D1000	80N/25MM

Dimensions:

SIZE	AS SUPPLIED		AFTER RECOVRY		STANDARD PACKAGE
(mm)	INTERNAL DIAMETER (mm)	INTERMAL DIAMEMTER mm	TOTAL WALL THICKNESS (mm)	ADHESIVE THICKNESS (mm)	SPOOL LENGTH (M/spool)
3.2	3.2	1.00	0.90±0.15	0.35±0.1	200
4.8	4.8	1.60	1.00±0.15	0.40±0.1	100
6.4	6.4	2.20	1.25±0.15	0.45±0.12	100
7.9	7.9	2.70	1.30±0.15	0.50±0.12	100
9.5	9.5	3.20	1.40±0.15	0.50±0.12	50
12.7	12.7	4.20	1.70±0.15	0.50±0.12	36.6
15	15	5.20	1.80±0.15	0.55±0.15	30.5
19.1	19.1	6.30	1.95±0.15	0.55±0.15	30.5
25.4	25.4	8.50	2.05±0.20	0.55±0.15	30.5
30	30	10.20	2.20±0.20	0.60±0.15	24.4
39	39	13.50	2.50±0.20	0.60±0.15	18.3
50	50	17.00	2.80±0.25	0.70±0.15	12.2
64	64	21.00	3.00±0.25	0.70±0.15	6.1
76	76	25.00	3.00±0.30	1.00±0.20	1.22
90	90	30.00	3.00±0.30	1.00±0.20	1.22
100	100	34.00	3.00±0.30	1.00±0.20	1.22
125	125	42.00	3.00±0.30	1.00±0.20	1.22

Dual Wall Heat Shrink Tube (Shrink Ratio: 4:1)----HST-DW-4X -H

Features:

- 4:1 shrink ratio
- Longitudinal shrink ratio: $\leq 8\%$
- Outer jacket flame retardant

• Super sealing against water, moisture or other contaminants

- Continuous operating temperature:-45°C to 125 °C
- Shrink temperature:120°C



Technical Data

Property	Test Method	Standard
Tensile Strength(Mpa)	ASTM D2671	≥10.4
Elongation	ASTM D2671	≥300
Tensile Strength after aging(Mpa)	UL 224 158°C X 168hrs	≥7.3
Elongation after aging(%)	UL 224 158°C X 168hrs	≥200
Dielectric Strength(kv/mm)	IEC243	≥15
Volume Resistivity(Ω.cm)	ASTM D876	$\geq 1 \times 10^{14}$

Hot Melt Adhesive

Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤0.2%
Softening Point	ASTM E8	95°C
Strength of pearing(PE)	ASTM D1000	120N/25MM
Strength of pearing(AL)	ASTM D1000	80N/25MM

Dimensions:

SIZE	AS SUPPLIED	AFTER RECOVRY			STANDARD PACKAGE
(mm)	INTERNAL DIAMETER (mm)	INTERMAL DIAMEMTER (mm)	TOTAL WALL THICKNESS (mm)	ADHESIVE THICKNESS (mm)	SPOOL LENGTH (M/spool)
4.0	4.0	1.00	1.1±0.15	0.4±0.15	200
6.0	6.0	1.50	1.5±0.15	0.5±0.15	100
8.0	8.0	2.00	1.7±0.15	0.5±0.15	50
12.0	12.0	3.00	2.0±0.15	0.6±0.15	1.22m/pc
16.0	16.0	4.00	2.3±0.25	0.6±0.15	1.22m/pc
20.0	20.0	5.00	2.6±0.25	0.6±0.15	1.22m/pc
24.0	24.0	6.00	3.0±0.3	0.7±0.15	1.22m/pc
32.0	32.0	8.00	3.0±0.3	0.7±0.15	1.22m/pc
52.0	52.0	13.00	3.3±0.3	0.7±0.15	1.22m/pc

Non-slip Textured heat shrink tube (HST-NST)

Specifications & applications:

- Unique surface designed by environmental friendly PE material for durable abrasion.
- Economical and install friendly, it's well suited for the DIY market.
- Applications such as: Tennis rackets, badminton rackets, fishing rods,

baseball bats, billiard cue, hockey sticks, industrial hand tools, athletic

equipment and various handles.

- Increased friction and safety on smooth surfaces minimizes slipping.
- Standard colors : black , red, yellow, green and blue

Technical features:

- Minimum shrinkage temperature: ≥60°C
- Full recovery temperature: $\geq 100^{\circ}C$
- Operating temperature: -55°C to 110°C
- Shrinkage ratio: 2:1
- Tensile strength: ≥10.4MPa

Standard sizes and lengths:





Size	Dimension Before shrink mm		Dimension After shrink mm		Length M/pc
mm	Internal Diameter	Thickness	Internal Diameter	Thickness	
φ15	≥15	0.45±0.15	≤8.0	0.85±0.20	1
φ20	≥20	0.50±0.15	≤11.0	0.90±0.20	1
φ22	≥22	0.50±0.15	≤12.5	0.90±0.20	1
φ25	≥25	0.50±0.15	≤14.5	1.00±0.20	1
φ28	≥28	0.50±0.15	≤15.5	1.00±0.20	1
φ30	≥30	0.60±0.15	≤17.5	1.20±0.20	1
φ35	≥35	0.60±0.15	≤20.0	1.20±0.20	1
φ40	≥40	0.60±0.15	≤23.0	1.20±0.20	1
φ45	≥45	0.65±0.15	25	1.25±0.20	1
φ50	≥50	0.65±0.15	≤28.0	1.25±0.20	1