

# ES-TECH INTERNATIONAL SOLUTION

CONNECTING THE POWERED LIFE



## Coaxial Cable Solution

ES-TECH International is a technology company specialized in providing solutions for communication & Infrastructure.

Delivering proactive and proven solutions and services that help networks around the world. ES-TECH International provides solutions for broadcasting, broadband, network power and cables, especially optical/coaxial cable and comprehensive power solutions.

To keep pace with rapid changing market, ES-TECH International is expanding structured cable system/intelligence building system and network solution field by continuously developing new products through aggressive investment for R&D.

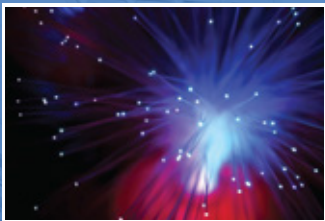
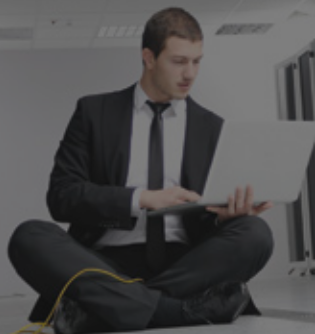
At the same time, ES-TECH International is developing new items by cooperating with Global Corporation, as well as developing its own brand to expand overseas market.

ES-TECH International will be always with you with state of the art solution which is your way to happiness.

# Introduction of Business

## ES-TECH International Solutions

ES-TECH International is a technology company specialized in providing solutions for communication & Infrastructure. Delivering proactive and proven solutions and services that help networks around the world, ES-TECH International provides solutions for broadcasting, broadband, network power and cables, especially optical/coaxial cable and comprehensive power solutions.



### Fiber Optics

- Distribution Cable
- Breakout Cable
- Simplex and Duplex
- Drop Cable
- Multi Loose Tube Cable
- Adss Cable
- Ribbon Cable



### Broadcasting

- AV Cabling Solution
- SMPTE Camera Solution
- AV Patching Solution



### Networking

- IBDN cabling solution
- HFC Network solution
- Network Consulting



### Cables

- Coax Cable
- UTP Cable
- Coaxial Connector



### Power Supply

- Square Wave UPS/PS
- Sine Wave UPS/PS
- Rack UPS
- APD
- STS
- AVR



### Broadband

- FTTX Infra Structured
- FTTH Solution
- Device & Equipment



### Telco

- DATA Center
- Core Networks
- Mobile Networks
- Microwave Technology





## Growing together with creative company culture.

Amid the fast pace change in the management business environment, ES-TECH International is embarking on a new journey toward sustainable growth for creation of the customer values.

ES-TECH international is a technology company specialized in providing solutions for communication & Infrastructure.

Delivering proactive and proven solutions and services that help networks around the world, ES-TECH international provides solutions for broadcasting, broadband, network power and cables, especially optical/coaxial cable and comprehensive power solutions.

To keep pace with rapid changing market, ES-TECH international is expanding structured cable system/intelligence building system and network solution field by continuously developing new products through aggressive investment for R&D.

Also developing new items by cooperating with Global Corporation, at the same time developing our own brand to expand overseas market.

ES-TECH international will be always with you with state of the art solution which is your way to happiness.



**ESTECH**  
INTERNATIONAL



# Company History

The below is the footprint of ES-TECH international



Company Scene



Cable Factory



Power Supply Factory



R&D Center

## 2018

Nominated as Promising Small-Medium Enterprises for Export by 'Ministry of SMEs and Startups'  
Opening of an Office in New Delhi, India – Export Incubator

## 2017

Certification of "World-class product" from Ministry of Industry and Trade on Uninterruptible Power Supply for communication.  
Nominated as a Military Service Designated Company (Industry) by Military Manpower Administrations.

## 2016

Certification of Youth-friendly 'Small Hidden Champion'  
Certification of Gyeong-gi Province Job Recognition Excellent Company.  
Completion of new head office construction in Suwon Industrial Complex.  
Nominated as a Gyeong-gi Province Women Employment Excellent Company.

## 2015

Expand further for fiber optic cable / Launched ESCABLE brand  
Verification of greenhouse gas inventory. (carbon management system ISO14064)

## 2014

Selected the best company to work for by SMBA  
(Small and Medium Business Administration)

## 2013

Selected promising small & medium business by Gyeonggi-Do Provincial Government  
Submitted a new design for practical use to KIPO (Korean Intellectual Property Office)  
Submitted design patent of 'Hole kit' for communication cable distributor to KIPO (Korean Intellectual Property Office)

## 2012

Selected best small & medium business to work for  
Selected as 'a venture business' by small & medium business administration.  
Awarded design award by Gyeonggi province governor.

## 2010

Developed STS  
Developed ground mount enclosure  
Achieved the patent of 'dual power distribution equipment'.  
Achieved the patent for rack type server system power distribution equipment

## 2008

Developed CATV line UPS of SUN & MOON series.  
Developed small sized power supply for apartment building.  
Obtained 'annex research institute certification' by KOITA  
Obtained 'Innobiz certification' by small & medium business administration.

## 2007

Obtained 'small & medium size business certification' by administration  
Obtained ISO 9001:2000 certifications

## 2005

Converted to corporation (ES-TECH international Inc.)  
Developed APT (Auto Power Distributor)

## 2004

Developed CATV line UPS

## 2002

ES TECH NOLOGY was founded



Fiber Optics



Power



Broadcasting



Broadband



Networking



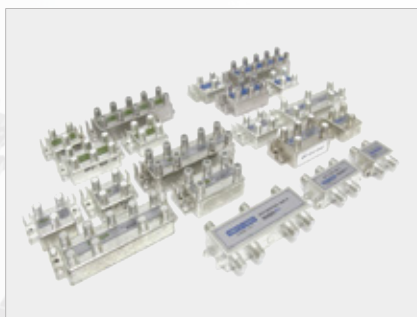
Telco



Cable

High Quality Total  
Communication Solutions

E S - T E C H I N T E R N A T I O N A L



## UNISHARE Passive Equipment

### CONTENTS

22	<b>Passive Equipment Index</b>
23	<b>CATV Indoor</b> <ul style="list-style-type: none"><li>– Distributor / Directional Coupler</li><li>– TV Well outlet</li><li>– Indoor Amplifier</li></ul>
27	<b>CATV Outdoor</b> <ul style="list-style-type: none"><li>– Distributor / Tap-off</li><li>– Line Directional Coupler</li><li>– Power Inserter</li></ul>
31	<b>SMATV Indoor</b> <ul style="list-style-type: none"><li>– Distributor / Directional Coupler</li><li>– TV Well outlet</li></ul>

E S - T E C H P A S S I V E E Q U I P M E N T

# Distributor

UNSC-C102, UNSC-C103, UNSC-C104, UNSC-C105  
UNSC-C106, UNSC-C108, UNSC-C112, UNSC-C116

## Features

- Utmost stable frequency at 5~1,000MHz
- Balanced splitting of RF signal without a change of impedance
- Superior electromagnetic wave shield and durability with Al-Diecasting



## Dimension

Model Number	Size
UNSC-C102, UNSC-C103	53.6mm(W) X 37.5mm(D) X 18mm(H)
UNSC-C104, UNSC-C105	76mm(W) X 37.5mm(D) X 18mm(H)
UNSC-C106, UNSC-C108	120.4mm(W) X 37.5mm(D) X 18mm(H)
UNSC-C112	178mm(W) X 46.5mm(D) X 29mm(H)
UNSC-C116	226mm(W) X 46.5mm(D) X 29mm(H)

## Performance

Model Number	Item (Unit)	The no. of outputs (Q'ty)	Frequency (MHz)	Insertion loss (dB)	Return loss (dB)	Mutual isolation (dB)	Impedance (Ω)	
UNSC-C102	2 WAY		2	5~1,000	≤ 4.6	≥ 15	≥ 20	75
UNSC-C103B	3 WAY	Balance	3	5~1,000	≤ 7.8	≥ 15	≥ 20	75
UNSC-C103U		Unbalance	3	5~1,000	≤ 4.6	≥ 15	≥ 20	75
				5~1,000	≤ 8.2	≥ 15	≥ 20	75
UNSC-C104	4 WAY		4	5~1,000	≤ 8.2	≥ 15	≥ 20	75
UNSC-C105	5 WAY		5	5~1,000	≤ 11	≥ 15	≥ 20	75
UNSC-C106	6 WAY		6	5~1,000	≤ 11	≥ 15	≥ 20	75
UNSC-C108	8 WAY		8	5~1,000	≤ 13	≥ 15	≥ 20	75
UNSC-C112	12 WAY		12	5~1,000	≤ 16	≥ 15	≥ 20	75
UNSC-C116	16 WAY		16	5~1,000	≤ 17	≥ 15	≥ 20	75



# Directional Coupler

UNSC-C201, UNSC-C202, UNSC-C204, UNSC-C208

## Features

- Utmost stable frequency at 5~1,000MHz
- Balanced splitting of RF signal without a change of impedance
- Controllable 3dB-step tap loss from 8 ~ 35dB
- Superior electromagnetic wave shield and durability with Al-Diecasting



## Dimension

Model Number	Size
UNSC-C201, UNSC-C202	53.6mm(W) X 37.5mm(D) X 18mm(H)
UNSC-C204	76mm(W) X 37.5mm(D) X 18mm(H)
UNSC-C208	120.4mm(W) X 37.5mm(D) X 18mm(H)

## Performance

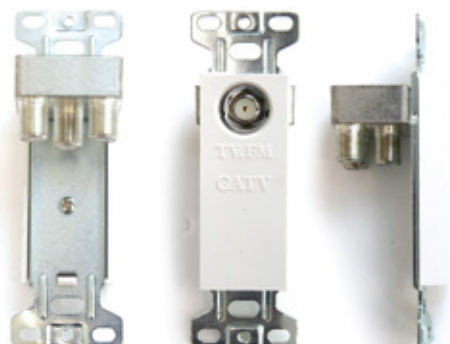
Model Number	Item (Unit)	Tap loss (dB)	Frequency (MHz)	Insertion loss (dB)	Reverse isolation (dB)	Return loss (dB)	Tap loss tolerabce(dB)	Mutual isolation (dB)	Impedance (Ω)
UNSC-C201	1 Way	8	5~1,000	≤3.2	≥22	≥15	±1.5	≥20	75
		11	5~1,000	≤2.3	≥24	≥15	±1.5	≥20	75
		14	5~1,000	≤1.7	≥27	≥15	±1.5	≥20	75
		17	5~1,000	≤1.5	≥28	≥15	±1.5	≥20	75
		20	5~1,000	≥1.3	≥31	≥15	±1.5	≥20	75
UNSC-C202	2 Way	8	5~1,000	≤4.6	≥22	≥15	±1.5	≥20	75
		11	5~1,000	≤3.0	≥24	≥15	±1.5	≥20	75
		14	5~1,000	≤2.0	≥26	≥15	±1.5	≥20	75
		17	5~1,000	≤1.6	≥28	≥15	±1.5	≥20	75
		20	5~1,000	≤1.3	≥31	≥15	±1.5	≥20	75
UNSC-C204	4 Way	11	5~1,000	≤4.6	≥22	≥15	±1.5	≥20	75
		14	5~1,000	≤3.0	≥25	≥15	±1.5	≥20	75
		17	5~1,000	≤2.0	≥27	≥15	±1.5	≥20	75
		20	5~1,000	≤1.6	≥30	≥15	±1.5	≥20	75
UNSC-C208	8 Way	14	5~1,000	≤4.8	≥23	≥15	±1.5	≥20	75
		17	5~1,000	≤3.0	≥26	≥15	±1.5	≥20	75
		20	5~1,000	≤2.0	≥27	≥15	±1.5	≥20	75

# TV Wall Outlet

UNSC-C301, UNSC-C302, UNSC-C303R

## Features

- Utmost stable frequency at 5~1,000MHz
- Splitting of RF signal without a change of impedance
- Controllable 3dB-step tap loss from 8 ~ 35dB
- Easy installation and removal



## Performance

Item		Unit	Standard								
Frequency		MHz	5~1,000								
Tap loss			8	11	14	17	20	23	26	29	32
Insertion	1IN-2OUT	dB	≤3.2	≤2.3	≤1.7	≤1.5	≤1.3	≤1.2	≤1.2	≤1.2	≤1.2
	1IN-3OUT	dB	≤4.6	≤3	≤2	≤1.6	≤1.3	≤1.3	≤1.3	≤1.2	≤1.2
Reverse isolation (Out-Tap)	1IN-2OUT	dB	≥23	≥25	≥29	≥30	≥33	≥35	≥38	≥40	≥42
	1IN-3OUT	dB	≥22	≥23	≥27	≥30	≥33	≥33	≥35	≥38	≥41
Mutual isolation	1IN-2OUT	dB	-	-	-	-	-	-	-	-	-
	1IN-3OUT	dB	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20
Return loss	1IN-2OUT	dB	≥15	≥15	≥15	≥15	≥15	≥15	≥15	≥15	≥15
	1IN-3OUT	dB	≥15	≥15	≥15	≥15	≥15	≥15	≥15	≥15	≥15
Tap loss tolerance	1IN-2OUT	dB	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5
	1IN-3OUT	dB	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5
Frequency response	1IN-2OUT	dB	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75
	1IN-3OUT	dB	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75

## Termination Type

Item		Unit	Standard							
Frequency		MHz	5~1,000							
Insertion		dB	1	3	5	8	11	14	17	20
Return loss		dB	≥15	≥15	≥15	≥15	≥15	≥15	≥15	≥15
Tap loss tolerance		dB	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5	≤±1.5
Frequency response		dB	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±0.75



# Indoor Amplifier

UNSC-CA1030

## Features

- High amplifying at 45~48dBmV with Hybrid IC generating a curved downstream signal
- Optimizing upstream signal with Plug-in ATT
- Configuration for easy maintenance
- Power consumption : <20W



## Performance

Item	Unit	Forward	Reverse	Remark
Frequency Range	MHz	54 ~ 1,000	5.75 ~ 41.75	
Rated output Level	dBmV	≥45	≥38	
Deviation	dB	±1.0	±0.75	
Maximum Gain	dB	≥30	≥20	
Gain Control Range	dB	0 ~ -18	0 ~ -18	
Slope Control Range	dB	0 ~ -15	0 ~ -15	
CTB	dB	≤-55		Note 1)
CSO	dB	≤-55	≤-63	Note 1)
XM	dB	≤-55	≤-63	Note 1)
Noise Figure	dB	≤10	≤10	
Hum Modulation	dB	≤-63	≤-63	Note 1)
Return Loss	dB	≤14	≤15	
Power Rating	W	18		
Power	VAC	220		
Operating Temperature	℃	-10 ~ 50		

### Note.

- Measured under condition of rated gain and power level.  
Noise factor measured at the highest gain
- Upstream NTCS 6 channels and downstream NTSC 116 channels(TILT 0dB)

# Outdoor Splitter

UNSH-C102, UNSH-C103B, UNSH-C103U

## Features

- Utmost stable frequency at 5~1,000MHz
- Superior electromagnetic wave shield and waterproof with Al-Diecasting
- Designed for high quality CATV systems
- Powerpassing upto 15A



## Dimension

Model Number	Size
UNSH-C102, UNSH-C103B, UNSH-C103U	133mm(W) X 113mm(D) X 77mm(H)

## Performance

Item		Unit	Standard			
Frequency		MHz	5~1,000			
The no. of outputs		pcs	2	3		
				Balance	Unbalance	
Insertion loss	5~42Mhz	dB	≤4	≤6.5	≤4	≤7.5
	54~1,000Mhz	dB	≥5.2	≥7.5	≥5.2	≥8.5
Mutual isolation		dB	≥20	≥20	≥20	≥20
Return loss		dB	≥16	≥16	≥16	≥16
Frequency response		dB	≤±0.85	≤±0.85	≤±0.85	≤±0.85
Hum modulation		dB	≥64	≥64	≥64	≥64
Power passing		A	≥15	≥15	≥15	≥15

# Tap-off

UNSH-C204, UNSH-C208

## Features

- Utmost stable frequency at 5~1,000MHz
- Superior electromagnetic wave shield and waterproof with Al-Diecasting
- Designed for high quality CATV systems
- Powerpassing upto 15A and bypassing available
- Tap loss range: 8~35dB(3dB Step)



## Dimension

Model Number	Size
UNSH-C204, UNSH-C208	135mm(W) X 116mm(D) X 77mm(H)

## Performance

### 4 WAY (UNSH-C204)

Item	Unit	Standard								
Frequency	MHz	5~1,000								
Tap loss	dB	8	11	14	17	20	23	26	29	32
Tap loss tolerabce	dB	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$
Insertion loss	dB	—	$\leq 4.9$	$\leq 3.5$	$\leq 2.5$	$\leq 2$	$\leq 2$	$\leq 1.8$	$\leq 1.7$	$\leq 1.6$
Reverse isolation	dB	—	$\geq 22$	$\geq 25$	$\geq 27$	$\geq 30$	$\geq 33$	$\geq 33$	$\geq 35$	$\geq 38$
Mutual isolation	dB	$\geq 20$	$\geq 20$	$\geq 20$	$\geq 20$	$\geq 20$	$\geq 20$	$\geq 20$	$\geq 20$	$\geq 20$
Return loss	dB	$\geq 16$	$\geq 16$	$\geq 16$	$\geq 16$	$\geq 16$	$\geq 16$	$\geq 16$	$\geq 16$	$\geq 16$
Frequency response	dB	—	$\pm 0.85$	$\pm 0.85$	$\pm 0.85$	$\pm 0.85$	$\pm 0.85$	$\pm 0.85$	$\pm 0.85$	$\pm 0.85$
Hum modulation	dB	—	$\geq 65$	$\geq 65$	$\geq 65$	$\geq 65$	$\geq 65$	$\geq 65$	$\geq 65$	$\geq 65$
Power passing	A	—	$\geq 15$	$\geq 15$	$\geq 15$	$\geq 15$	$\geq 15$	$\geq 15$	$\geq 15$	$\geq 15$

### 8 WAY (UNSH-C208)

Item	Unit	Standard								
Frequency	MHz	5~1,000								
Tap loss	dB	11	14	17	20	23	26	29	32	
Tap loss tolerabce	dB	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$	$\leq \pm 1.6$
Insertion loss	dB	—	$\leq 4.8$	$\leq 3.2$	$\leq 2.2$	$\leq 1.8$	$\leq 1.8$	$\leq 1.5$	$\leq 1.4$	
Reverse isolation	dB	—	$\geq 23$	$\geq 26$	$\geq 27$	$\geq 30$	$\geq 33$	$\geq 36$	$\geq 37$	
Mutual isolation	dB	$\geq 20$	$\geq 20$	$\geq 20$	$\geq 20$	$\geq 20$	$\geq 20$	$\geq 20$	$\geq 20$	
Return loss	dB	$\geq 16$	$\geq 16$	$\geq 16$	$\geq 16$	$\geq 16$	$\geq 16$	$\geq 16$	$\geq 16$	
Frequency response	dB	—	$\leq \pm 0.85$	$\leq \pm 0.85$	$\leq \pm 0.85$	$\leq \pm 0.85$	$\leq \pm 0.85$	$\leq \pm 0.85$	$\leq \pm 0.85$	
Hum modulation	dB	—	$\geq 65$	$\geq 65$	$\geq 65$	$\geq 65$	$\geq 65$	$\geq 65$	$\geq 65$	
Power passing	A	—	$\geq 15$	$\geq 15$	$\geq 15$	$\geq 15$	$\geq 15$	$\geq 15$	$\geq 15$	
Band rejection(13MHz)	dB	$\geq 51$	$\geq 54$	$\geq 57$	$\geq 60$	$\geq 63$	$\geq 66$	$\geq 69$	$\geq 70$	



# Line Directional Coupler

UNSH-DC08, UNSH-DC12, UNSH-DC16

## Features

- Utmost stable frequency at 5~1,000MHz
- Superior electromagnetic wave shield and waterproof with Al-Diecasting
- Powerpassing upto 15A



## Dimension

Model Number	Size
UNSH-DC08, UNSH-DC12, UNSH-DC16	133mm(W) X 113mm(D) X 77mm(H)

## Performance

Item		Unit	Standard		
Frequency		MHz	5~1,000		
Tap loss		dB	8	12	16
Insertion loss	5~42Mhz	dB	≤1.7	≤1.1	≤0.9
	54~1,000Mhz	dB	≤2.7	≤2.3	≤2
Reverse isolation(Out-Tap)		dB	≥20	≥20	≥20
Tap loss tolerance		dB	≤±1.6	≤±1.6	≤±1.6
Return loss		dB	≥16	≥16	≥16
Frequency response		dB	≤±0.85	≤±0.85	≤±0.85
Hum modulation		dB	≥64	≥64	≥64
Power passing		A	≥15	≥15	≥15

# Power Inserter

UNSH-LP15A

## Features

- Utmost stable frequency at 5~1,000MHz
- Superior electromagnetic wave shield and waterproof with Al-Diecasting
- Powerpassing upto 15A



## Dimension

Model Number	Size
UNSH-LP15A	133mm(W) X 113mm(D) X 77mm(H)

## Performance

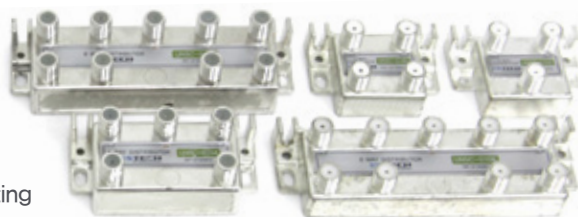
Item		Unit	Standard
Frequency		MHz	5~1,000(상향 : 5~42, 하향 : 54~1,000)
Insertion loss	5~42Mhz	dB	≤0.6
	54~1,000Mhz	dB	≤1.2
RF/AC	5~42Mhz	dB	≤-60
	54~1,000Mhz	dB	≤-50
Return loss		dB	≥16
Frequency response		dB	≤±0.5
Hum modulation		dB	≥64
Power passing		A	≥15

# Distributor

UNSC-S102, UNSC-S103, UNSC-S104, UNSC-S106  
UNSC-S108

## Features

Utmost stable frequency at 54~2,150MHz  
Balanced splitting of MATV signal without a change of impedance  
Superior electromagnetic wave shield and durability with Al-Diecasting



## Dimension

Model Number	Size
UNSC-S102, UNSC-S103	53.6mm(W) X 37.5mm(D) X 18mm(H)
UNSC-S104	76mm(W) X 37.5mm(D) X 18mm(H)
UNSC-S106, UNSC-S108	120.4mm(W) X 37.5mm(D) X 18mm(H)

## Performance

Item	Unit	Standard									
Frequency	MHz	54 ~ 2,150(MATV:54~806, SMATV:950~2,150)									
The no. of outputs	pcs	2		3		4		6		8	
		MA	SMA	MA	SMA	MA	SMA	MA	SMA	MA	SMA
Insertion loss	dB	≤4.5	≤6	≤7.5	≤9.5	≤8.5	≤11	≤11.5	≤16	≤13	≤18.5
Return loss	dB	≥12	≥12	≥11	≥11	≥10	≥10	≥9	≥9	≥9	≥9
Mutual isolation	dB	≥20	≥17	≥20	≥17	≥20	≥17	≥20	≥17	≥20	≥17
Frequency response	dB	≤±1.5	≤±3.0	≤±1.5	≤±3.0	≤±1.5	≤±3.0	≤±1.5	≤±3.0	≤±1.5	≤±3.0
HUM	dB	≤-65	≤-60	≤-65	≤-60	≤-65	≤-60	≤-65	≤-60	≤-65	≤-60
Power passing	A	≥DC 15V 0.5A(Only for power passing type)									
Impedance	Ω	75									

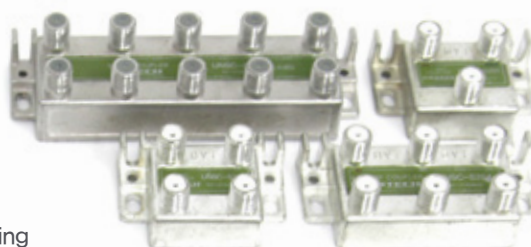


# Directional Coupler

UNSC-S201, UNSC-S202, UNSC-S204, UNSC-S208

## Features

- Utmost stable frequency at 54~2,150MHz
- Balanced splitting of MATV signal without a change of impedance
- Controllable 3dB-step tap loss from 8 ~ 20dB
- Powerpassing function at DC15V/0.5A
- Superior electromagnetic wave shield and durability with Al-Diecasting



## Dimension

Model Number	Size
UNSC-S201, UNSC-S202	53.6mm(W) X 37.5mm(D) X 18mm(H)
UNSC-S204	76mm(W) X 37.5mm(D) X 18mm(H)
UNSC-S208	120.4mm(W) X 37.5mm(D) X 18mm(H)

## Performance

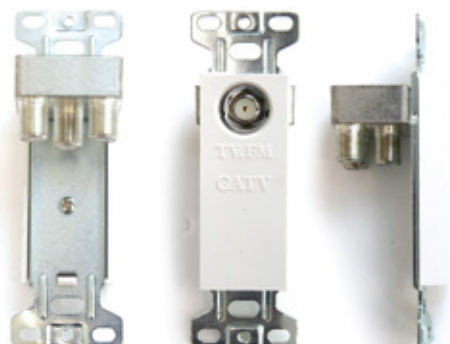
Item		Unit	Standard									
Frequency		MHz	54 ~ 2,150(MATV:54~806, SMATV:950~2,150)									
Tap loss		dB	8		11		14		17		20	
			MA	SMA	MA	SMA	MA	SMA	MA	SMA	MA	SMA
Insertion loss	1	dB	≤2.5	≤4.5	≤2	≤3.5	≤1.5	≤3	≤1.3	≤2.7	≤1	≤2.5
	2	dB	≤5	≤6.5	≤2.7	≤5	≤4.5	≤3.5	≤2	≤3	≤1.5	≤2.7
	4	dB	—	—	—	—	≤2.5	≤7	≤3	≤4	≤2.5	≤3.2
	8	dB	—	—	—	—	≤5.5	≤10.5	≤4.5	≤6	≤3.5	≤5.5
Reverse isolation loss	1	dB	≥21	≥20	≥23	≥22	≥25	≥22	≥27	≥22	≥29	≥25
	2	dB	≥21	≥20	≥23	≥20	≥25	≥20	≥28	≥20	≥30	≥20
	4	dB	—	—	—	—	≥21	≥20	≥22	≥20	≥30	≥22
	8	dB	—	—	—	—	≥22	≥20	≥24	≥20	≥25	≥20
Mutual isolation	1	dB	≥20	≥18	≥20	≥18	≥20	≥18	≥20	≥18	≥20	≥18
	2	dB	≥20	≥18	≥20	≥18	≥20	≥18	≥20	≥18	≥20	≥18
	4	dB	≥20	≥18	≥20	≥18	≥20	≥18	≥20	≥18	≥20	≥18
	8	dB	≥20	≥18	≥20	≥18	≥20	≥18	≥20	≥18	≥20	≥18
Return loss	1	dB	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9
	2	dB	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9
	4	dB	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9
	8	dB	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9
Tap loss tolerance	1	dB	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5
	2	dB	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5
	4	dB	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5
	8	dB	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5
Frequency response	1	dB	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	≤±2
	2	dB	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	≤±2
	4	dB	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	≤±2
	8	dB	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	≤±2	≤±0.75	V±2

# TV Wall outlet

UNSC-S301, UNSC-S302, UNSC-S303R

## Features

- Utmost stable frequency at 5~1,000MHz
- Splitting of RF signal without a change of impedance
- Controllable 3dB-step tap loss from 8 ~ 35dB
- Easy installation and removal



## Performance

Item		Unit	Standard									
Frequency		MHz	54 ~ 2,150(MATV:54~806, SMATV:950~2,150)									
Tap loss		dB	8		11		14		17		20	
			MA	SMA	MA	SMA	MA	SMA	MA	SMA	MA	SMA
Insertion loss	1IN-2OUT	dB	≤3	≤4.5	≤2.5	≤3.5	≤2	≤3	≤1.4	≤2.7	≤1.2	≤2.5
	1IN-3OUT	dB	≤5	≤6.5	≤3	≤5	≤2.5	≤3.5	≤2	≤3	≤1.4	≤2.7
Reverse isolation (Out-Tap)	1IN-2OUT	dB	≥22	≥20	≥24	≥22	≥26	≥22	≥27	≥22	≥30	≥25
	1IN-3OUT	dB	≥20	≥20	≥22	≥20	≥24	≥20	≥25	≥20	≥27	≥20
Mutual isolation	1IN-2OUT	dB	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20
	1IN-3OUT	dB	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20	≥20
Return loss	1IN-2OUT	dB	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9
	1IN-3OUT	dB	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9	≥10	≥9
Tap loss tolerance	1IN-2OUT	dB	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5
	1IN-3OUT	dB	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5	≤±1.5	≤±2.5
Frequency response	1IN-2OUT	dB	≤±0.75	≤±1.5	≤±0.75	≤±1.5	≤±0.75	≤±1.5	≤±0.75	≤±1.5	≤±0.75	≤±1.5
	1IN-3OUT	dB	≤±0.75	≤±1.5	≤±0.75	≤±1.5	≤±0.75	≤±1.5	≤±0.75	≤±1.5	≤±0.75	≤±1.5

## Termination Type

Item	Unit	Standard							
Frequency	MHz	5~1,000				54~2,150			
Insertion loss	dB	1	2	3	4	1	2	3	4
Return loss	dB	≥13	≥13	≥13	≥13	≥10	≥10	≥10	≥10
Tap loss tolerance	dB	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±1.5	≤±1.5	≤±1.5	≤±1.5
Frequency response	dB	≤±0.75	≤±0.75	≤±0.75	≤±0.75	≤±1.5	≤±1.5	≤±1.5	≤±1.5

# Company Information

ES-TECH international is specialized in providing broadcasting, communication, electronic solutions.

ES-TECH international specialized in providing communication and infrastructure solutions for better life of humans. ES-TECH international provides a variety of fiber optic solutions and industrial power supply solutions over worldwide wire and wireless communication markets.

To keep pace with rapid changing market, ES-TECH international is expanding structured cable system/intelligence building system and network solution field by continuously developing new products through aggressive investment for R&D.

Developing better products in cooperating with global corporations in order to offer customized solutions for customer satisfaction is our primary.  
ES-TECH international will be always with you with state of the art solution which is your way to happiness.



## Company Products



Fiber Optics Cable



Coaxial Cable



SUN UPS Series



Rack Mount UPS



PSM Series



Feeder Cable



Indoor Passive Equipments



Outdoor Passive Equipments



Connectors



Indoor Amplifier

High Quality Total Communication Solutions



Optical Devices



LAN Cable





**OFFICE / PLANT**

228-70, Saneop-ro 155beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea  
T. +82-70-4571-4700 F. +82-70-4571-4799