5G and Beyond Connecting to the future

End-to-End Solutions

5G and Beyond Connecting to the future

UBCS has provided SK Telecom, Korea's telecommunications company, with one of the best end-toend solutions for building base stations and in-building systems (networks) for the last several years.

Based on our experience in Korea, we work with our customers to design, manufacture, and create lasting connections with optimal products for 5G Networks.

UBCS Co., Ltd.

CEO: Sung-Kwon Kim

Date of Establishment: 2005

Address: [15564] 96, Chungjang-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, Republic of Korea

Solutions: Power & Optical Fiber Connectivity, RF Connectivity, Test & Measurement

Main item: Power, Optic Connectors & Cable Assemblies, Waterproof Kits, RF Coaxial Connectors &

Cable Assemblies, Passive Components (Combiners, Power Splitters)

Annual Sale (2021): \$9,784,940





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Power, Optic Connectors & Cable Assemblies

AC 20A / 220V FIC (F) Power Plug (Push-Pull_4SQ)

UBCS's DC/AC Power connectors are mainly used to power supply between base station antennas and equipment such as 4G & 5G radio units, rectifiers, etc. for outdoor wireless networks.

FEATURES / BENEFITS

- Safety & Easy field installation
- 2 Compatible with rectifier equipment
- 3 Safety waterproofing function
- 4 Excellent durability

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

FIC : Field Installable Connector F : Female
SAC : Solder Assembled Connector RC : Rectifier
SS : Samsung PP : Push-Pull Type
NK : Nokia BN : Bayonet Type

M : Male

ELG: Ericsson



FUNCTIONAL SPECIFICATIONS	
Connector Type	Push-Pull / FIC / Female
Connector Dimension	Ø32 x 98mm
Dust & Waterproof Rate	IP67 ~ IP68
Mating Durability	500 (Cycle)
Pulling Force	200N

SC: Screw Type

OPERATING SPECIFICATIONS	
Rated Voltage	AC 220V
Rated Current	20A
Dielectric Withstanding Voltage	AC 1000V, 5mA, 60sec
Insulation Resistance	DC 500V, 10sec, Min 100MΩ
Contact Resistance	≤1.25mΩ

ENVIRONMENT TEST	
Air-Leakage	1bar / 30second (Less than 0.03bar)
Operating Temperature	-40 to +85℃
UV Test	720hours
Corrosion Test	Temperature: 35℃ / Salinity 5% / Spray volume 1~2 ml / Test time: 168 hrs (KSD 9502)
Vibration Test	Vibration frequency: 10~55Hz, displacement: 0.75mm, time of duration: 6H

Power, Optic Connectors & Cable Assemblies

AC 20A / 220V SAC (M) Power Receptacle (Push-Pull)

UBCS's DC/AC Power connectors are mainly used to power supply between base station antennas and equipment such as 4G & 5G radio units, rectifiers, etc. for outdoor wireless networks.

FEATURES / BENEFITS

- 1 Safety & Easy field installation
- 2 Compatible with rectifier equipment
- 3 Safety waterproofing function
- 4 Excellent durability

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

FIC: Field Installable Connector

SAC: Solder Assembled Connector

SS: Samsung

NK: Nokia

ELG: Ericsson

F: Female

RC: Rectifier

PP: Push-Pull Type

BN: Bayonet Type

SC: Screw Type

M: Male

FUNCTIONAL SPECIFICATIONS	
Connector Type	Push-Pull / Male
Connector Dimension	32.6 x 32.6 x 41.2mm
Dust & Waterproof Rate	IP68
Mating Durability	300 (Cycle)

OPERATING SPECIFICATIONS	
Rated Voltage	AC 220V
Rated Current	20A
Dielectric Withstanding Voltage	AC 1000V

ENVIRONMENT TEST	
Operating Temperature	-40 to +90℃

Power, Optic Connectors & Cable Assemblies

DC 40A / 50V SAC (F) Power Receptacle (Push-Pull)

UBCS's DC/AC Power connectors are mainly used to power supply between base station antennas and equipment such as 4G & 5G radio units, rectifiers, etc. for outdoor wireless networks.

FEATURES / BENEFITS

- Safety & Easy field installation
- 2 Compatible with rectifier equipment
- 3 Safety waterproofing function
- 4 Excellent durability

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

FIC: Field Installable Connector

SAC: Solder Assembled Connector

SS: Samsung

NK: Nokia

ELG: Ericsson

F: Female

RC: Rectifier

PP: Push-Pull Type

BN: Bayonet Type

SC: Screw Type

M : Male



FUNCTIONAL SPECIFICATIONS	
Connector Type	Push-Pull / Female
Connector Dimension	32.6 x 32.6 x 41.2mm
Dust & Waterproof Rate	IP68
Mating Durability	300 (Cycle)

OPERATING SPECIFICATIONS	
Rated Voltage	DC 200V
Rated Current	40A
Dielectric Withstanding Voltage	AC 1000V

ENVIRONMENT TEST	
Operating Temperature	-40 to +90℃

Power, Optic Connectors & Cable Assemblies

DC 40A / 50V SAC & FIC (M) Power Plug (Push-Pull_4SQ)

UBCS's DC/AC Power connectors are mainly used to power supply between base station antennas and equipment such as 4G & 5G radio units, rectifiers, etc. for outdoor wireless networks.

FEATURES / BENEFITS

- 1 Compatible with rectifier equipment
- 2 Safety waterproofing function
- 3 Excellent durability

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

FIC: Field Installable Connector F: Female SAC: Solder Assembled Connector RC: Rectifier PP: Push-Pull Type **BN**: Bayonet Type SC: Screw Type

SS: Samsung NK: Nokia ELG: Ericsson M: Male

FUNCTIONAL SPECIFICATIONS	
Connector Type	Push-Pull / SOC & FIC / Male
Connector Dimension	Ø32 x 79mm (SOC) / Ø32 x 98mm (FIC)
Dust & Waterproof Rate	IP67 ~ IP68
Mating Durability	500 (Cycle)
Pulling Force	200N

OPERATING SPECIFICATIONS	
Rated Voltage	DC 48V
Rated Current	40A
Dielectric Withstanding Voltage	AC 1000V, 5mA, 60sec
Insulation Resistance	DC 500V, 10sec, Min 100MΩ
Contact Resistance	≤1.25mΩ

ENVIRONMENT TEST	
Air-Leakage	1bar / 30second (Less than 0.03bar)
Operating Temperature	-40 to +85℃
UV Test	720hours
Corrosion Test	Temperature: 35℃ / Salinity 5% / Spray volume 1~2 ml / Test time: 168 hrs (KSD 9502)
Vibration Test	Vibration frequency: 10~55Hz, displacement: 0.75mm, time of duration: 6H

Power, Optic Connectors & Cable Assemblies

DC 40A / 50V SAC (M) Power Plug (Push-Pull_4SQ)

UBCS's DC/AC Power connectors are mainly used to power supply between base station antennas and equipment such as 4G & 5G radio units, rectifiers, etc. for outdoor wireless networks.

FEATURES / BENEFITS

- 1 Compatible with high power outdoor equipment for 5G antenna etc.
- 2 Safety waterproofing & Dust protect function
- 3 Excellent durability

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

FIC : Field Installable Connector

SAC : Solder Assembled Connector

SS : Samsung

NK : Nokia

ELG : Ericsson

F : Female

RC : Rectifier

PP : Push-Pull Type

SN : Bayonet Type

SC : Screw Type

M : Male



FUNCTIONAL SPECIFICATIONS	
Connector Type	Push-Pull / SOC / Male
Connector Dimension	Ø32 x 83mm
Dust & Waterproof Rate	IP67 ~ IP68
Mating Durability	500 (Cycle)
Pulling Force	200N

OPERATING SPECIFICATIONS	
Rated Voltage	DC 48V
Rated Current	40A to 63A
Dielectric Withstanding Voltage	AC 1000V, 5mA, 60sec
Insulation Resistance	DC 500V, 10sec, Min 100MΩ
Contact Resistance	≤1.25mΩ

ENVIRONMENT TEST	
Air-Leakage	1bar / 3second (Less than 0.03bar)
Operating Temperature	-40 to +85℃
UV Test	720hours
Corrosion Test	Temperature: 35℃ / Salinity 5% / Spray volume 1~2 ml / Test time: 720hrs
Vibration Test	Vibration frequency: 10~55Hz, displacement: 0.75mm, time of duration: 6hrs

Power, Optic Connectors & Cable Assemblies

DC 40A / 50V FIC (F) Power Plug (Push-Pull_4SQ)

UBCS's DC/AC Power connectors are mainly used to power supply between base station antennas and equipment such as 4G & 5G radio units, rectifiers, etc. for outdoor wireless networks.

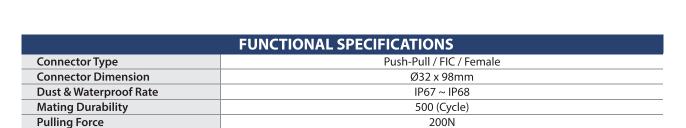
FEATURES / BENEFITS

- 1 Safety & Easy field installation cables
- 2 Compatible with outdoor equipment for 5G antenna etc.
- 3 Safety waterproofing & Dust protect function
- 4 Excellent durability

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

FIC : Field Installable Connector F : Female
SAC : Solder Assembled Connector RC : Rectifier
SS : Samsung PP : Push-Pull Type
NK : Nokia BN : Bayonet Type
ELG : Ericsson SC : Screw Type
M : Male



OPERATING SPECIFICATIONS	
Rated Voltage	DC 48V
Rated Current	40A
Dielectric Withstanding Voltage	AC 1000V, 5mA, 60sec
Insulation Resistance	DC 500V, 10sec, Min 100MΩ
Contact Resistance	≤1.25mΩ

ENVIRONMENT TEST	
Air-Leakage	1bar / 1minute (Less than 0.03bar)
Operating Temperature	-40 to +85℃
UV Test	720hours
Corrosion Test	Temperature: 35℃ / Salinity 5% / Spray volume 1~2 ml / Test time: 720 hrs
Vibration Test	Vibration frequency: 10~55Hz, displacement: 0.75mm, time of duration: 6H



Power, Optic Connectors & Cable Assemblies

DC 65A / 50V FIC (F) Power Plug (Push-Pull_6SQ)

UBCS's DC/AC Power connectors are mainly used to power supply between base station antennas and equipment such as 4G & 5G radio units, rectifiers, etc. for outdoor wireless networks.

FEATURES / BENEFITS

- 1 Safety & Easy field installation cables
- 2 Compatible with High power outdoor equipment for 5G antenna etc.
- 3 Safety waterproofing & Dust protect function
- 4 Excellent durability

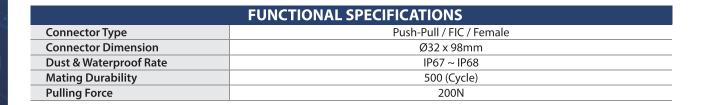
APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

FIC: Field Installable Connector F: I SAC: Solder Assembled Connector RC SS: Samsung PP

NK : Nokia ELG : Ericsson M : Male F : Female RC : Rectifier

PP : Push-Pull Type BN : Bayonet Type SC : Screw Type



OPERATING SPECIFICATIONS	
Rated Voltage	DC 48V
Rated Current	63A
Dielectric Withstanding Voltage	AC 1000V, 5mA, 60sec
Insulation Resistance	DC 500V, 10sec, Min 100MΩ
Contact Resistance	≤1.25mΩ

ENVIRONMENT TEST	
Air-Leakage	1bar / 3sec (Less than 0.03bar)
Operating Temperature	-40 to +85℃
UV Test	720hours
Corrosion Test	Temperature: 35℃ / Salinity 5% / Spray volume 1~2 ml / Test time: 720 hrs
Vibration Test	Vibration frequency: 10~55Hz, displacement: 0.75mm, time of duration: 6H



Power, Optic Connectors & Cable Assemblies

Signal 5A Connector & Cable Assembly (Push-Pull)

UBCS's Signal connectors and cable assemblies are designed for the user's convenience in outdoor network environments and ensure the best connectivity solutions.

FEATURES / BENEFITS

- 1 Push-Pull Type for easy field installation
- 2 Compatible with rectifier equipment
- 3 Excellent durability
- 4 High and Safety communication signal performance
- 5 Complied of IP67 & IP68 outdoor level

APPLICATIONS

1 5G Networks

2 Outdoor Wireless Networks

3 FTTA Solutions

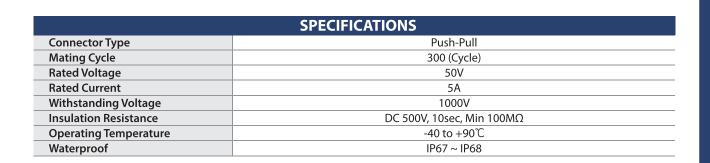
FIC: Field Installable Connector
SAC: Solder Assembled Connector
SS: Samsung

NK : Nokia ELG : Ericsson

M: Male

F : Female RC : Rectifier

PP: Push-Pull Type BN: Bayonet Type SC: Screw Type





Power, Optic Connectors & Cable Assemblies

DC 80A / 50V SAC (F) Power Receptacle (Push-Pull)

UBCS's DC/AC Power connectors are mainly used to power supply between base station antennas and equipment such as 4G & 5G radio units, rectifiers, etc. for outdoor wireless networks.

FEATURES / BENEFITS

- 1 Safety & Easy connection mount [Push-Pull Type]
- Compatible all of rectifier & batteries for high power equipment
- Safety waterproofing function
- 4 Easy & Safety solder type

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions





OPERATING SPECIFICATIONS	
Rated Voltage	DC 420V
Rated Current	80A
Dielectric Withstanding Voltage	2000V

ENVIRONMENT TEST	
Operating Temperature -40 to +85℃	



Power, Optic Connectors & Cable Assemblies

DC 80A / 50V Cable Assembly (Push-Pull)

UBCS's DC/AC power cable assemblies are mainly used to power supply between base station antennas and equipment such as 4G & 5G radio units, rectifiers, etc. for outdoor wireless networks.

FEATURES / BENEFITS

- 1 Safety & Easy field installation [Push-Pull Type]
- Compatible between rectifier & battery equipment
- 3 Safety waterproofing function
- 4 Excellent durability

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

M: Male



FUNCTIONAL SPECIFICATIONS	
Connector Type	Push-Pull / Male
Dust & Waterproof Rate	IP67 ~ IP68
Mating Durability	300 (Cycle)

OPERATING SPECIFICATIONS	
Rated Voltage	DC 420V
Rated Current	80A
Dielectric Withstanding Voltage	2000V
Insulation Resistance	DC 500V, 10sec, Min 100MΩ

ENVIRONMENT TEST				
Operating Temperature -40 to +85℃				



Power, Optic Connectors & Cable Assemblies

CPRI DLC (6.3mm) Optic Plug (Push-Pull)

UBCS's Optic cable assemblies are designed for the user's convenience in outdoor network environments and ensure the best connectivity solutions.

FEATURES / BENEFITS

- 1 Push-Pull Type for easy field installation
- Moving tolerance length for SFP position of inner equipment
- 3 High and Safety optical performance
- 4 Complied of IP67 & IP68 outdoor level
- **5** Satisfy CPRI communication conditions

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

FIC: Field Installable Connector SAC: Solder Assembled Connector

SS: Samsung NK: Nokia ELG: Ericsson M: Male F : Female RC : Rectifier

PP: Push-Pull Type BN: Bayonet Type SC: Screw Type



SPECIFICATIONS				
Connector Type	Push-Pull			
Operating Wavelength	1260 ~ 1620nm			
Environmental Conditions	Outdoor			
Configuration	Single Mode (9/125µm)			
Insertion Loss	≤0.5dB			
Return Loss	≥50dB			
Operating Temperature	-40 to +85℃			
Storage Temperature	-40 to +85℃			
Waterproof	IP67 ~ IP68			
UV & Salt Spray Test	720hours			

Accessories (Waterproof Kits)

OJC Waterproof Kit (Screw_SS / NK / ELG)

UBCS's Waterproof kits protect the optic connector and cable in the event of humidity and dust in the harsh outdoor environment.

They are mainly used in the outdoor wireless networks for connection between outdoor equipment such as FTTA solution equipment.

FEATURES / BENEFITS

- 1 Safety & Easy field installation [Screw Type]
- 2 Compatible with RRU or AAU equipment
- 3 Safety waterproofing function
- 4 Excellent durability

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

FIC: Field Installable Connector SAC: Solder Assembled Connector

SS: Samsung NK: Nokia ELG: Ericsson M: Male



BN: Bayonet Type SC: Screw Type

SPECIFICATIONS				
Connector Type	Screw Type			
Waterproof Rate	IP64			
Mating Durability	500 (Cycle)			
Temperature Rating	-40 to +85℃			

Accessories (Waterproof Kits)

RJ45 Alarm Waterproof Kit (Screw_SS)

UBCS's Waterproof kits protect the RJ45 connector and cable in the event of humidity and dust in the harsh outdoor environment.

They are mainly used in the outdoor wireless networks for connection between outdoor equipment such as FTTA solution equipment.

FEATURES / BENEFITS

- Safety & Easy field installation [Screw Type]
- 2 Compatible with rectifier equipment
- 3 Safety waterproofing function
- 4 Excellent durability

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

FIC: Field Installable Connector SAC: Solder Assembled Connector

SS: Samsung NK: Nokia ELG: Ericsson M: Male

F: Female **RC**: Rectifier

PP: Push-Pull Type BN: Bayonet Type SC: Screw Type

SPECIFICATIONS				
Connector Type	Screw Type			
Waterproof Rate	IP64			
Mating Durability	500 (Cycle)			
Temperature Rating	-40 to +85℃			



Accessories (Waterproof Kits)

RJ45 Waterproof Kit (Screw_Rectifier)

UBCS's Waterproof kits protect the RJ45 connector and cable in the event of humidity and dust in the harsh outdoor environment.

They are mainly used in the outdoor wireless networks for connection between outdoor equipment such as FTTA solution equipment.

FEATURES / BENEFITS

- Safety & Easy field installation
- 2 Compatible with rectifier equipment
- 3 Safety waterproofing function
- 4 Excellent durability

APPLICATIONS

- 1 5G Networks
- 2 Outdoor Wireless Networks
- **3** FTTA Solutions

FIC: Field Installable Connector F: Female SAC: Solder Assembled Connector **RC**: Rectifier SS: Samsung NK: Nokia ELG: Ericsson SC: Screw Type M: Male



SPECIFICATIONS				
Connector Type	Screw Type			
Waterproof Rate	IP67			
Mating Durability	300 (Cycle)			
Temperature Rating	-40 to +85℃			



Coaxial Connectors, DC ~ 4GHz

7-16 DIN Series

UBCS' connectors address a wide variety of RF application needs from base stations, in-building (DAS), indoor and outdoor networks, testing & measurement.

FEATURES / BENEFITS

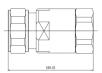
- 1 Robust mechanical design
- 2 Outstanding system characteristics
- 3 High durability
- 4 Low PIM

APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- 5 Outdoor and Indoor
- 6 Radios and Filter Output

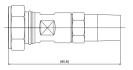






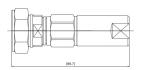
7-16 DIN Male for 7/8" Flexible Coaxial Cable [Straight]





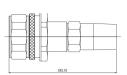
7-16 DIN Male for 1/2" Flexible Coaxial Cable [Straight]





7-16 DIN Male for 1/2" Flexible Coaxial Cable, Smooth Wall Type [Straight]





7-16 DIN Male for 1/2" Flexible Coaxial Cable [Straight, Anti-loosening]

SPECIFICATIONS						
Impedance		50Ω				
Frequency Range Up To		DC ~	4GHz			
Insertion Loss		-0.05 x √f(GHz) dB				
VSWR		1.2:1 Max.				
PIMD	3rd PIMD	3rd PIMD ≤ -150 dBc 5th PIMD ≤ -160 dBc				
Insulation Resistance		≥ 10GΩ				
Center Contact Resistance		≤ 0.005Ω				
Outer Contact Resistance		≤ 0.01Ω				
Operating Temperature		-40 °C ~ +70 °C				
Humidity		IEC68-2-30				
Vibration		IEC68	3-2-6			

Coaxial Connectors, DC ~ 4GHz

N Series

UBCS' connectors address a wide variety of RF application needs from base stations, in-building (DAS), indoor and outdoor networks, testing & measurement.

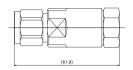
FEATURES / BENEFITS

- 1 Robust mechanical design
- 2 Outstanding system characteristics
- 3 High durability
- 4 Low PIM

APPLICATIONS

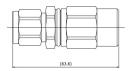
- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- 5 Outdoor and Indoor
- 6 Radios and Filter Output



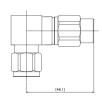


N Male for 1/2" Flexible Coaxial Cable [Straight]





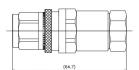
N Male for 1/2" Flexible Coaxial Cable, Smooth Wall Type [Straight]



N Male for 2/5" Flexible Coaxial Cable, Smooth Wall Type [Right Angle]

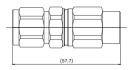






N Male for 1/2" Flexible Coaxial Cable [Straight, Anti-loosening]





N Male for 2/5" Flexible Coaxial Cable, Smooth Wall Type [Straight]

SPECIFICATIONS						
Impedance		50Ω				
Frequency Range Up To		DC ~	4GHz			
Insertion Loss		-0.05 x √f(GHz) dB				
VSWR		1.2:1 Max.				
PIMD	3rd PIMD ≤ -150 dBc 5th PIMD ≤ -160 dBc					
Insulation Resistance		≥ 10	OGΩ			
Center Contact Resistance		≤ 0.0	05Ω			
Outer Contact Resistance	≤ 0.01Ω					
Operating Temperature	-40 °C ~ +70 °C					
Humidity	IEC68-2-30					
Vibration		IEC68	3-2-6			

Coaxial Connectors, DC ~ 4GHz

4.3-10 Series

UBCS' connectors address a wide variety of RF application needs from base stations, in-building (DAS), indoor and outdoor networks, testing & measurement.

FEATURES / BENEFITS

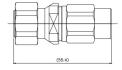
- Robust mechanical design
- 2 Outstanding system characteristics
- 3 High durability
- 4 Low PIM

APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- **5** Outdoor and Indoor
- 6 Radios and Filter Output

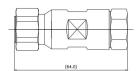






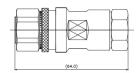
4.3-10 Male for 2/5" Flexible Coaxial Cable, Smooth Wall Type [Straight]





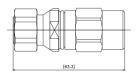
4.3-10 Male for 1/2" Flexible Coaxial Cable [Straight]





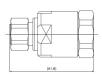
4.3-10 Male for 1/2" Flexible Coaxial Cable [Straight, Anti-loosening]





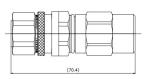
4.3-10 Male for 1/2" Flexible Coaxial Cable, Smooth Wall Type [Straight]





4.3-10 Male for 7/8" Flexible Coaxial Cable [Straight]





4.3-10 Male for 2/5" Flexible Coaxial Cable, Smooth Wall Type [Straight, Anti-loosening]

SPECIFICATIONS						
Impedance		50Ω				
Frequency Range Up To		DC ~	4GHz			
Insertion Loss		-0.05 x √f(GHz) dB				
VSWR		1.2:1 Max.				
PIMD	3rd PIMD	3rd PIMD ≤ -150 dBc 5th PIMD ≤ -160 dBc				
Insulation Resistance		≥ 10GΩ				
Center Contact Resistance		≤ 0.005Ω				
Outer Contact Resistance		≤ 0.01Ω				
Operating Temperature		-40 °C ~ +70 °C				
Humidity		IEC68-2-30				
Vibration		IEC68	8-2-6			

Coaxial Cable Assemblies

Jumper & Feeder

UBCS is focusing on developing and manufacturing more efficient cable assemblies considering the user's optimal work and installation environment.

FEATURES / BENEFITS

- 1 Robust mechanical design
- 2 Outstanding PIM performance
- 3 High durability
- 4 Low VSWR and attenuation

APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- **5** Outdoor and Indoor



BLOCK DIAGRAM / LINE UP



7-16 DIN Male - 4.3-10 Male

7-16 DIN Male - 7-16 DIN Male

7-16 DIN Male - 7-16 DIN Male_Right Angle

7-16 DIN Male - N Male

N Male - 4.3-10 Male

N Male - N Male



4.3-10 Male - 4.3-10 Male_Anti-Loosening

7-16 DIN Male - 4.3-10 Male_Anti-Loosening

7-16 DIN Male - 7-16 DIN Male_Anti-Loosening

7-16 DIN Male - N Male_Anti-Loosening

N Male - 4.3-10 Male_Anti-Loosening

N Male - N Male_Anti-Loosening

SPECIFICATIONS					
Impedar	nce	50Ω			
Frequen	cy Range Up To	DC ~ 4GHz			
Insertion	n Loss	[(Cable loss + 0.1) x √f(GHz)] x 1.15			
VSWR	DC ~ 2.7 GHz	1.2:1 Max.			
VOVK	DC ~ 4 GHz	1.3:1 Max.			
	"3rd Order IM Product	Static: ≤ -160dBc			
PIMD	@2 x 43dBm"	Dynamic: ≤ -150dBc			
PIND	5rd Order IM Product	Static: ≤ -170dBc			
	@2 x 43dBm	Dynamic: ≤ -160dBc			
Operatir	ng Temperature	-40 °C ~ +70 °C			
Waterpr	oof (Protection Class)	IP67			
Connect	or Type	Custom			

Passive Components

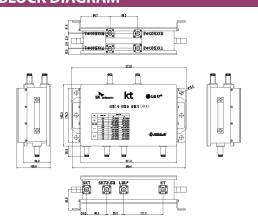
4X4 Combiner, 819-2700MHz, N Female

UBCS' combiner combines RF signals at a certain impedance level. Our products are designed for use in-building or indoor and can be used to provide wireless coverage in base stations, buildings, subways, tunnels, etc.

FEATURES / BENEFITS

- Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

BLOCK DIAGRAM



APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- 5 Indoor



		SPECIFIC	ATIONS		
Impedance		50Ω			
	SK Telecom	800M		1.8G	2.1G
	(Pass Band)	824~839MHz		1715~1735MHz	1940~1960MH
	(Pass Dallu)	869~884MHz		1810~1830MHz	2130~2150MH
	кт	800M	900M	1.8G	2.1G
Frequency	(Pass Band)	814~824MHz	904.3~914.3MHz	1735~1765MHz	1960~1980MH
Range Up To	(Fass ballu)	859~869MHz	949.3~959.3MHz	1830~1859MHz	2150~2170MH
Range up 10	LGU+	800M	1.8G	2.1G	2.6G
	(Pass Band)	839~849MHz	1770~1780MHz	1920~1940MHz	2520~2540MH
	(Fass balla)	884~894MHz	1861~1870MHz	2110~2130MHz	2640~2660MH
	SK Telecom 2.6G		2.6G		
	(Pass Band)	2500~2520N	MHz, 2540~2550MHz, 26		·2670MHz
			4.8dB M	ax.	
Insertion Loss			(KT 1.8G TX , LGU+ 1.8	BG TX 5.8dB Max.	
		KT 1.8G RX , LGU+ 1.8G RX 5.3dB Max.)			
Return Loss			-18.0dB Max. (I	nput Port)	
		All other path 22dB Max. / KT 1.8G TX ↔ LGU+ 1.8G TX 20dB Max.			
		48dB Min.@884~894MHz			
		LGU+→KT port 45dB min.@904.3~914.3MHz			
Isolation		•	30dB min.@2110~213	0MHz	
		SKT→LGU+ port	ort 50dB min.@1810~1830MHz		
		SKT→KT port	50dB min.@904.3~914		
		on more	"5th -160dE		
PIMD		7th -170dBc Min @ 43dBm x 2Tone			
2			SKT 2.6G Port 3rd (-1		
		SKT port : 240W Max. (avg. power)			
			KT port : 320W Max	• .	
Max Input Power		LGU+ port: 320W Max. (avg. power)			
		SKT 2.6G port : 80W Max. (avg. power)			
Connector Type		N(F) Type			
Operating Temper	ature	-30°C ~ +60°C			
Waterproof (Prote			IP67		
Humidity			95%		

Passive Components

4X2 Combiner, 100W 3350-3900MHz, N Female

819~2550MHz, 3350~3500MHz, 3500~3600MHz, 3600~3900MHz

UBCS' combiner combines RF signals at a certain impedance level. Our products are designed for use in-building or indoor and can be used to provide wireless coverage in base stations, buildings, subways, tunnels, etc.

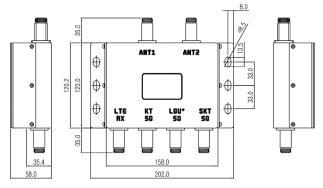
FEATURES / BENEFITS

- Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- 5 Indoor

BLOCK DIAGRAM





SPECIFICATIONS				
Impedance	50Ω			
	P1	P2	P3	P4, P5
Frequency Range Up To	KT	SK Telecom	LG U+	LTE(Rx)
	3500~3600MHz	3600~3900MHz	3350~3500MHz	819~2550MHz
Insertion Loss	P1	P2	P3	P4
insertion Loss	-4.5dB Min.	-4.5dB Min.	-4.5dB Min.	-0.4dB Min.
Return Loss		-18.0dB Max	. (Input Port)	
Isolation	-20dB Max. (P1↔P2, P1↔P3, P4↔P2,P3)			
isolation	-30dB Max. (P2↔P3, P4↔P1)			
PIMD		3rd -155dBc Max. @	43dBm(CW) 2 Tone	
Connector Type		N Typ	oe (F)	
Input Power Rating Per Port	P1	P2	P3	P4, P5
input rower hatting rei Port	100W Max.	100W Max.	100W Max.	10W Max.
Operating Temperature	-30 °C ~ +60 °C			
Waterproof (Protection Class)	IP67			
Humidity	95%			

Passive Components

3X2 Combiner, 100W 3350-3900MHz, N / 4.3-10 Female

3350~3500MHz, 3500~3600MHz, 3600~3900MHz

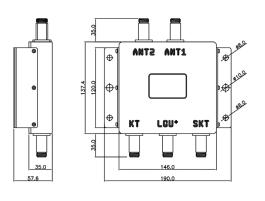
UBCS' combiner combines RF signals at a certain impedance level. Our products are designed for use in-building or indoor and can be used to provide wireless coverage in base stations, buildings, subways, tunnels, etc.

FEATURES / BENEFITS

- 1 Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- 5 Indoor









SPECIFICATIONS					
Impedance	50Ω				
	P1	P2	P3		
Frequency Range Up To	KT	SK Telecom	LG U+		
	3500~3600MHz	3600~3900MHz	3350~3500MHz	-	
Insertion Loss	P1	P2	P3		
insertion Loss	-4.2dB Min.	-4.2dB Min.	-4.2dB Min.		
Return Loss		-18.0dB Max. (Input Port)			
Isolation	-20dB Max. (P1 ↔ P2, P1 ↔ P3)				
isolation	-30dB Max. (P2↔P3)				
PIMD		3rd -155dBc Max. @	43dBm(CW) 2 Tone		
Connector Type		N Type (F)	/ 4.3-10 (F)		
Input Power Rating Per Port	P1	P2	P3		
input rower hatting rei rort	100W Max.	100W Max.	100W Max.	-	
Operating Temperature		-30 ℃ ~	- +60 ℃		
Waterproof (Protection Class)	IP67				
Humidity	95%				

Passive Components

3X1 Combiner, 100W 3350~3900, N Female

3350~3500MHz, 3500~3600MHz, 3600~3900MHz

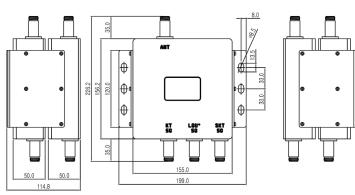
UBCS' combiner combines RF signals at a certain impedance level. Our products are designed for use in-building or indoor and can be used to provide wireless coverage in base stations, buildings, subways, tunnels, etc.

FEATURES / BENEFITS

- 1 Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-builling Systems (DAS)
- 5 Indoor



	SPECIF	ICATIONS				
Impedance		50	Ω			
	P1	P2	P3			
Frequency Range Up To	KT	SK Telecom	LG U+			
	3500~3600MHz	3600~3900MHz	3350~3500MHz			
Insertion Loss	P1	P2	P3			
insertion coss	-	0.7dB Min. (Band AVG	.)			
Return Loss		-18.0dB Max	. (Input Port)			
Isolation	-20dB Max. (P1↔P2, P1↔P3)					
isolation		-30dB Max. (P2↔P3)				
PIMD		3rd -155dBc Max. @	43dBm(CW) 2 Tone			
Connector Type		N Typ	oe (F)			
Input Power Pating Por Port	P1	P2	P3			
Input Power Rating Per Port	100W Max.	100W Max.	100W Max.			
Operating Temperature		-30 °C ~ +60 °C				
Waterproof (Protection Class)		IP67				
Humidity		95%				



Passive Components

2X2 Hybrid Combiner, 500W 819-3900MHz, N Female

819~960MHz, 1710~1870MHz, 1885~2170MHz, 2300~2700MHz, 3350~3900MHz

UBCS' combiner combines RF signals at a certain impedance level. Our products are designed for use in-building or indoor and can be used to provide wireless coverage in base stations, buildings, subways, tunnels, etc.

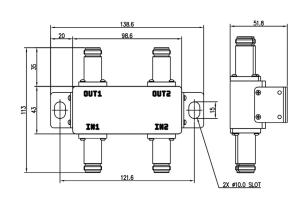
FEATURES / BENEFITS

- Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- 5 Indoor

BLOCK DIAGRAM





SPECIFICATIONS					
Impedance	50Ω				
Fragueray Panga Un Ta	LTE	5G			
Frequency Range Up To	~ 2700MHz	3350~3900MHz			
Insertion Loss	-3.8dB Min.				
Return Loss	-18.0dB Max. (Input Port)				
Isolation	-22dB Max.				
PIMD	3rd -155dBc Max. @ 43dBm(CW) 2 Tone				
Connector Type	N Type (F)				
Input Power Rating Per Port	500W Max.				
Operating Temperature	-30 °C ~ +60 °C				
Waterproof (Protection Class)	IP67				
Humidity	95%				

Passive Components

Wilkinson, 2-Way Power Splitters 819-3900MHz, N Female

819~960MHz, 1710~1870MHz, 1885~2170MHz, 2300~2400MHz, 2500~2690MHz, 3350~3900MHz

UBCS' power splitter evenly distributes signal received in one input unit to two, three or four output units. Designed for the needs of South Korea's 5G telecommunications industry.

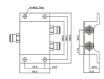
FEATURES / BENEFITS

- Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

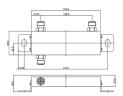
APPLICATIONS

- 1 5G Networks
- Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- 5 Indoor

BLOCK DIAGRAM / LINE UP

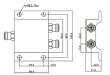


2-Way Power Splitter, N Female, 150W 819-3900MHz [1:1 Split Ratio]

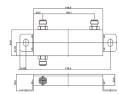


2-Way Power Splitter, N Female, 150W 819-3900MHz [8:2 Split Ratio]





2-Way Power Splitter, N Female, 150W 819-3900MHz [7:3 Split Ratio]



2-Way Power Splitter, N Female, 150W 819-3900MHz [9:1 Split Ratio]

SPECIFICATIONS				
Impedance	50Ω			
Frequency Range Up To	819~960MHz, 1710~1870MHz, 1885~2170MHz, 2300~2400MHz, 2500~2690MHz, 3350~3900MHz			
VSWR	1.2:1 Max.			
Isolation	-20.0dB (Max.)			
PIMD	-150dBc @ 3th (CW 10W 2tone)			
Connector Type	N Type (F)			
Input Power Rating Per Port	150W Max.			
Operating Temperature	-30 °C ~ +60 °C			
Waterproof (Protection Class)	IP67			
Humidity	95%			
Port	3 Port			

Passive Components

Wilkinson, 3-Way Power Splitters 819-3900MHz, N Female

819~960MHz, 1710~1870MHz, 1885~2170MHz, 2300~2400MHz, 2500~2690MHz, 3350~3900MHz

UBCS' power splitter evenly distributes signal received in one input unit to two, three or four output units. Designed for the needs of South Korea's 5G telecommunications industry.

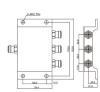
FEATURES / BENEFITS

- 1 Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

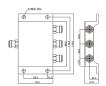
APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- 5 Indoor

BLOCK DIAGRAM / LINE UP



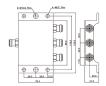
3-Way Power Splitter, N Female, 150W 819-3900MHz [1:1:1 Split Ratio]



3-Way Power Splitter, N Female, 150W 819-3900MHz [2:1:1 Split Ratio]







3-Way Power Splitter, N Female, 150W 819-3900MHz [8:1:1 Split Ratio]

SPECIFICATIONS					
Impedance	50Ω				
Frequency Range Up To	819~960MHz, 1710~1870MHz, 1885~2170MHz,				
rrequericy range op 10	2300~2400MHz, 2500~2690MHz, 3350~3900MHz				
VSWR	1.2:1 Max.				
Isolation	-20.0dB (Max.)				
PIMD	-150dBc @ 3th (CW 10W 2tone)				
Connector Type	N Type (F)				
Input Power Rating Per Port	150W Max.				
Operating Temperature	-30 °C ~ +60 °C				
Waterproof (Protection Class)	IP67				
Humidity	95%				
Port	4 Port				

Passive Components

Wilkinson, 4-Way Power Splitters 819-3900MHz, N Female

819~960MHz, 1710~1870MHz, 1885~2170MHz, 2300~2400MHz, 2500~2690MHz, 3350~3900MHz

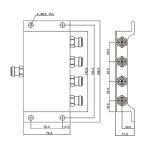
UBCS' power splitter evenly distributes signal received in one input unit to two, three or four output units. Designed for the needs of South Korea's 5G telecommunications industry

FEATURES / BENEFITS

- Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-builling Systems (DAS)
- 5 Indoor



4-Way Power Splitter, N Female, 150W 819-3900MHz [1:1:1: Split Ratio]



SPECIFICATIONS					
Impedance	50Ω				
Frequency Range Up To	819~960MHz, 1710~1870MHz, 1885~2170MHz, 2300~2400MHz, 2500~2690MHz, 3350~3900MHz				
VSWR	1.2:1 Max.				
Isolation	-20.0dB (Max.)				
PIMD	-150dBc @ 3th (CW 10W 2tone)				
Connector Type	N Type (F)				
Input Power Rating Per Port	150W Max.				
Operating Temperature	-30 °C ~ +60 °C				
Waterproof (Protection Class)	IP67				
Humidity	95%				
Port	5 Port				

Passive Components

Junction, 2-Way Power Splitters 819-3900MHz, N Female

819~960MHz, 1710~1870MHz, 1885~2170MHz, 2300~2400MHz, 2500~2690MHz, 3350~3900MHz

UBCS' power splitter evenly distributes signal received in one input unit to two, three or four output units. Designed for the needs of South Korea's telecommunications industry.

FEATURES / BENEFITS

- Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

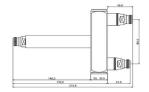


- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- 5 Indoor









2-Way Power Splitter [Type U], N Female, 300W 3350-3900MHz [7:3 Split Ratio]

SPECIFICATIONS				
Impedance	50Ω			
Frequency Range Up To	819~960MHz, 1710~1870MHz, 1885~2170MHz, 2300~2400MHz, 2500~2690MHz, 3350~3900MHz			
VSWR	1.2:1 Max.			
PIMD	-155dBc @ 3th (CW 20W 2tone)			
Connector Type	N Type (F)			
Input Power Rating Per Port	300W Max.			
Operating Temperature	-40 °C ~ +70 °C			
Waterproof (Protection Class)	IP67			
Humidity	95%			
Port	3 Port			

Passive Components

Junction, 2-Way Power Splitters 3350-3900MHz, 4.3-10 Female

3350~3900MHz

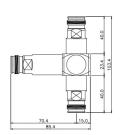
UBCS' power splitter evenly distributes signal received in one input unit to two, three or four output units. Designed for the needs of South Korea's telecommunications industry.

FEATURES / BENEFITS

- Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

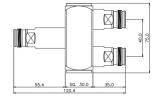
APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- 5 Indoor



2-Way Power Splitter [Type T], 4.3-10 Female, 500W 3350-3900MHz [1:1 Split Ratio]





2-Way Power Splitter [Type U], 4.3-10 Female, 500W 3350-3900MHz [1:1 Split Ratio]

SPECIFICATIONS					
Impedance	50Ω				
Frequency Range Up To	3350~3900MHz				
VSWR	1.2:1 Max.				
PIMD	-155dBc @ 3th (CW 20W 2tone)				
Connector Type	4.3-10 (F)				
Input Power Rating Per Port	500W Max.				
Operating Temperature	-40 ℃ ~ +70 ℃				
Waterproof (Protection Class)	IP67				
Humidity	95%				
Port	3 Port				

Passive Components

Junction, 3-Way Power Splitters 819-3900MHz, N Female

819~960MHz, 1710~1870MHz, 1885~2170MHz, 2300~2400MHz, 2500~2690MHz, 3350~3900MHz

UBCS' power splitter evenly distributes signal received in one input unit to two, three or four output units. Designed for the needs of South Korea's telecommunications industry.

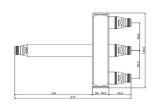
FEATURES / BENEFITS

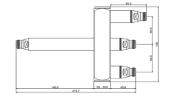
- Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss



- 1 5G Networks
- Wireless Infrastructure
- 3 Antenna Systems
- 4 In-builling Systems (DAS)
- 5 Indoor

BLOCK DIAGRAM / LINE UP





3-Way Power Splitter [Type U], N Female, 300W 3350-3900MHz [1:1:1 Split Ratio] 3-Way Power Splitter [Type U], N Female, 300W 3350-3900MHz [2:1:1 Split Ratio]

SPECIFICATIONS				
Impedance	50Ω			
Frequency Range Up To	819~960MHz, 1710~1870MHz, 1885~2170MHz,			
riequelicy halige op 10	2300~2400MHz, 2500~2690MHz, 3350~3900MHz			
VSWR	1.2:1 Max.			
PIMD	-155dBc @ 3th (CW 20W 2tone)			
Connector Type	N Type (F)			
Input Power Rating Per Port	300W Max.			
Operating Temperature	-40 °C ~ +70 °C			
Waterproof (Protection Class)	IP67			
Humidity	95%			
Port	4 Port			

Passive Components

Junction, 3-Way Power Splitters 3350~3900MHz, 4.3-10 Female

3350~3900MHz

UBCS' power splitter evenly distributes signal received in one input unit to two, three or four output units. Designed for the needs of South Korea's 5G telecommunications industry.

FEATURES / BENEFITS

- Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

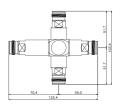
APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buidling Systems (DAS)
- 5 Indoor









3-Way Power Splitter [Type T], 4.3-10 Female, 500W 3350-3900MHz [1:1:1 Split Ratio]

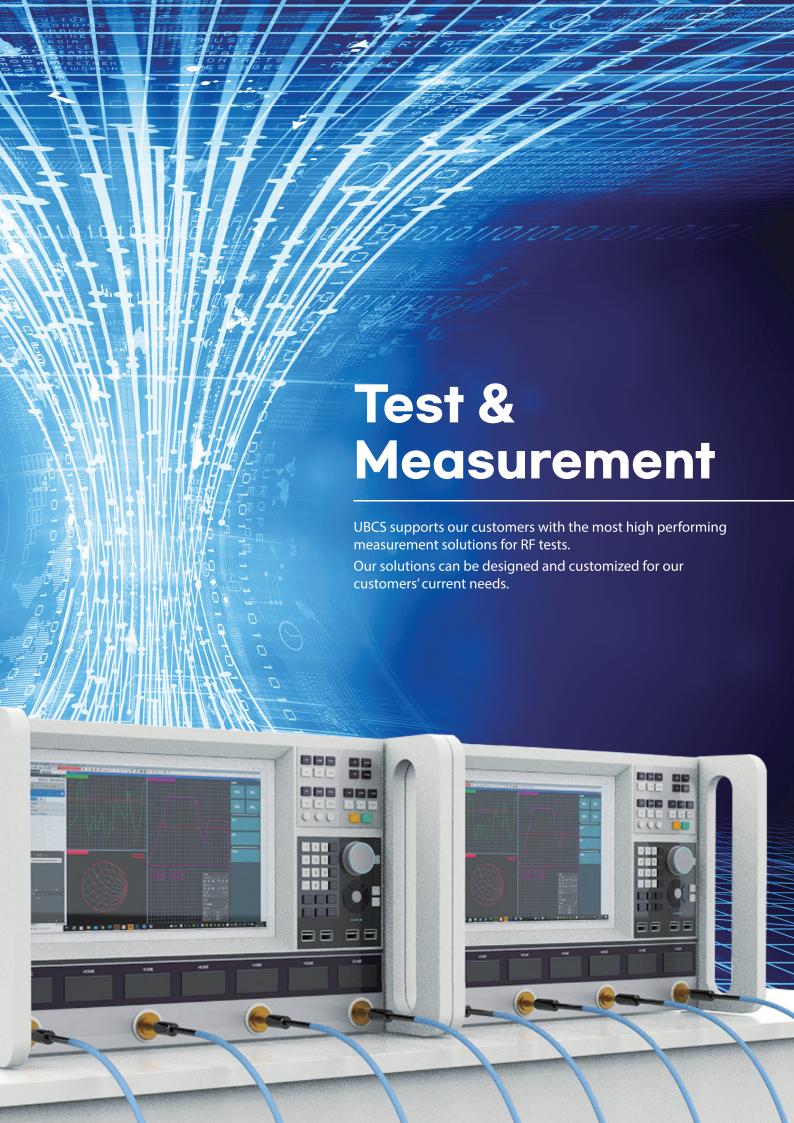


3-Way Power Splitter [Type U], 4.3-10 Female, 500W 3350-3900MHz [1:1:1 Split Ratio]



3-Way Power Splitter [Type F], 4.3-10 Female, 500W 3350-3900MHz [1:1:1 Split Ratio]

SPECIFICATIONS					
Impedance	50Ω				
Frequency Range Up To	3350~3900MHz				
VSWR	1.2:1 Max.				
PIMD	-155dBc @ 3th (CW 20W 2tone)				
Connector Type	4.3-10 (F)				
Input Power Rating Per Port	500W Max.				
Operating Temperature	-40 °C ~ +70 °C				
Waterproof (Protection Class)	IP67				
Humidity	95%				
Port	4 Port				



RF Connectors & Cable Assemblies

DC ~ 40GHz

With a maximum frequency of 40 GHz, UBCS' Connectors & Cable Assemblies offer low loss, low VSWR and outstanding performance. Also, they are highly durable.

They can be customized and produced to meet individual requirements. We provide the most high performing measurement and testing solutions for our customers.



FEATURES / BENEFITS

- Robust mechanical design
- Outstanding system characteristics
- 3 Low loss and high frequency

APPLICATIONS

Test & Measurement

^{*} Cable Assemblies: Custom Made

CONNECTOR	FREQUNECY RANGE (GHz)						
CONNECTOR	3 GHz	7.5 GHz	11 GHz	14 GHz	18 GHz	26.5 GHz	40 GHz
7-16 DIN							
4.3-10							
N							
SMA							
3.5mm							
2.92mm							

DC ~ 6GHz

	SPECIFICATIONS						
Connector	SMA	3.5mm	2.92mm	N TYPE	7-16 DIN	4.3-10	
Impedance			50	Ω			
VSWR (Max.)			1.3	2:1			
Insertion loss	0.06 √F	0.05 √F	0.03 √F	0.05 √F	0.05 √F	0.05 √F	
Insulation resistance			DC500V 5,	000MΩ Min.			
Contact	Outer conductor : 2mΩ Max.	Outer conductor : 2mΩ Max.	Outer conductor : 2mΩ Max.	Outer conductor : 1mΩ Max.	Outer conductor : 1.5mΩ Max.	Outer conductor : 1.5mΩ Max.	
resistance	Inner conductor : 3mΩ Max.	Inner conductor : 3mΩ Max.	Inner conductor : 3mΩ Max.	Inner conductor : 1mΩ Max.	Inner conductor : 0.4mΩ Max.	Inner conductor : 1.0mΩ Max.	
Durability		50	00matings MIL-C-390	12		100 matings	
Coupling nut retention force	65Kgf Min	65Kgf Min	65Kgf Min	450N	1000N	450N	
Recommended coupling nut torque	12Kgf.Cm (Proof Torque : 16.5Kgf. Cm)	12Kgf.Cm (Proof Torque : 16.5Kgf. Cm)	12Kgf.Cm (Proof Torque : 16.5Kgf. Cm)	70Kgf.Cm (Proof Torque : 16.5Kgf. Cm	200Kgf.Cm (Proof Torque : 354Kgf. Cm)	200Kgf.Cm (Proof Torque : 354Kgf. Cm)	
Center contact retention force	Engage : 1.35Kgf. Cm Max , Disengage : 0.03Kgf.Cm Min	Engage : 1.35Kgf. Cm Max , Disengage : 0.03Kgf.Cm Min	Engage: 1.35Kgf. Cm Max, Disengage : 0.03Kgf.Cm Min	Engage: 0.9Kgf. Cm Max, Disengage : 0.06Kgf.Cm Min	Engage: 3.5Kgf. Cm Max, Disengage : 0.4Kgf.Cm Min	Engage: 0.9Kgf. Cm Max, Disengage : 0.8Kgf.Cm Min	

DC ~ 18GHz

SPECIFICATIONS						
Connector	SMA	3.5mm	2.92mm	N TYPE		
Impedance		50	Ω			
VSWR (Max.)		1.2	2:1			
Insertion loss	0.06 √F	0.05 √F	0.03 √F	0.05 √F		
Insulation resistance	DC500V 5,000MΩ Min.					
Contact resistance	Outer conductor : $2m\Omega$ Max.	Outer conductor : $2m\Omega$ Max.	Outer conductor : $2m\Omega$ Max.	Outer conductor : $1 \text{m}\Omega$ Max.		
Contact resistance	Inner conductor : 3mΩ Max.	Inner conductor : 3mΩ Max.	Inner conductor : 3mΩ Max.	Inner conductor : $1 m\Omega$ Max.		
Durability	500matings MIL-C-39012					
Coupling nut retention force	65Kat Min 65Kat Min 65Kat Min		450N			
Recommended coupling nut torque	12Kgf.Cm (Proof Torque : 16.5Kgf.Cm)	12Kgf.Cm (Proof Torque : 16.5Kgf.Cm)	12Kgf.Cm (Proof Torque : 16.5Kgf.Cm)	70Kgf.Cm (Proof Torque : 16.5Kgf.Cm		
Center contact retention force	Engage : 1.35Kgf. Cm Max , Disengage : 0.03Kgf.Cm Min	Engage : 1.35Kgf. Cm Max , Disengage : 0.03Kgf.Cm Min	Engage : 1.35Kgf. Cm Max , Disengage : 0.03Kgf.Cm Min	Engage : 0.9Kgf.Cm Max , Disengage : 0.06Kgf.Cm Min		

DC ~ 28GHz

SPECIFICATIONS		
Connector	3.5mm	2.92mm
Impedance	50Ω	
VSWR (Max.)	1.2:1	
Insertion loss	0.05 √F	0.03 √F
Insulation resistance	DC500V 5,000MΩ Min.	
Contact resistance	Outer conductor : 2mΩ Max.	Outer conductor : $2m\Omega$ Max.
	Inner conductor : 3mΩ Max.	Inner conductor : 3mΩ Max.
Durability	500matings MIL-C-39012	
Coupling nut retention force	65Kgf Min	65Kgf Min
Recommended coupling nut torque	12Kgf.Cm (Proof Torque : 16.5Kgf.Cm)	12Kgf.Cm (Proof Torque : 16.5Kgf.Cm)
Center contact retention force	Engage : 1.35Kgf.Cm Max , Disengage : 0.03Kgf.Cm Min	Engage : 1.35Kgf.Cm Max , Disengage : 0.03Kgf.Cm Min

DC ~ 40GHz

SPECIFICATIONS		
Connector	2.92mm	
Impedance	50Ω	
VSWR (Max.)	1.2:1	
Insertion loss	0.03 √F	
Insulation resistance	DC500V 5,000MΩ Min.	
Contact resistance	Outer conductor : 2mΩ Max.	
Contact resistance	Inner conductor : 3mΩ Max.	
Durability	500matings MIL-C-39012	
Coupling nut retention force	65Kgf Min	
Recommended coupling nut torque	12Kgf.Cm (Proof Torque : 16.5Kgf.Cm)	
Center contact retention force	Engage : 1.35Kgf. Cm Max , Disengage : 0.03Kgf.Cm Min	

We're building the end-to-end solutions between people, places and networks



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