



5G and Beyond  
Connecting to the future

# End-to-End Solutions



**UBCS CO., LTD.**  
Connecting Systems

# 5G and Beyond Connecting to the future

유비씨에스는 지난 수 년간 통신 기지국 및 인빌딩 네트워크 구축과 관련하여 국내 이통통신 사업자에게 최고의 End-to-End 솔루션을 제공 해왔습니다.

통신 강국인 한국에서의 경험을 바탕으로 우리는 고객과 협력하여 5G Networks를 위한 최적의 제품을 설계, 생산하며 지속적인 연결을 만듭니다.

## ㈜유비씨에스

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

대표제품 : Power, Optic Connectors & Cable Assemblies, Waterproof Kits,  
RF Coaxial Connectors & Cable Assemblies,  
Passive Components (Combiners, Power Splitters)

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## 연혁 ● 유비씨에스가 걸어온 길

- 2021 고용노동부 지정 강소기업 선정
- 2020 결합기, 분배기 공급 1위 선정\_SK Telecom / 이노비즈 선정
- 2019 SK Telecom 5G 벤더 선정 / 메인비즈 선정
- 2018 재난망 벤더 선정 / KT Commerce 공급사 등록
- 2016 커넥터 공급 1위 선정\_SK Telecom
- 2013 기업부설연구소 설립
- 2012 법인 등록
- 2007 ISO 9001, ISO 14001 획득
- 2005 유비씨에스 설립

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# Power, Optical Fiber Connectivity

## Outdoor Wireless Networks

유비씨에스의 포트폴리오에는 옥외 무선 네트워크 환경에서 기지국과 정류기 사이를 연결하는 Power and Optical Fiber 영역의 제품이 포함되어 있습니다. 이동 통신망 구축의 편의를 위해 고객 맞춤형으로 개발되었으며, 우수한 품질을 바탕으로 한 당사의 제품은 최고의 솔루션을 제공합니다.



Outdoor wireless networks

## Power, Optical Fiber Connectivity - Outdoor Wireless Networks

### Power, Optic Connectors & Cable Assemblies

#### AC 20A / 220V FIC (F) Power Plug (Push-Pull\_4SQ)

유비씨에스의 DC/AC 전원 커넥터는 4G & 5G 무선 장비, 정류기 등 옥외 무선네트워크 환경에서 기지국과 장비를 상호연결하며, 전원을 공급하는 데 주로 사용 됩니다.

##### 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  
M : Male

F : Female  
RC : Rectifier  
PP : Push-Pull Type  
BN : Bayonet Type  
SC : Screw Type

##### 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

##### 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°C
UV Test	720hours
Corrosion Test	Temperature: 35°C / 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, Optical Fiber Connectivity - Outdoor Wireless Networks

### Power, Optic Connectors & Cable Assemblies

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

유비씨에스의 DC/AC 전원 커넥터는 4G & 5G 무선 장비, 정류기 등 옥외 무선네트워크 환경에서 기지국과 장비를 상호연결하며, 전원을 공급하는 데 주로 사용 됩니다.

##### 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  
M : Male

F : Female  
RC : Rectifier  
PP : Push-Pull Type  
BN : Bayonet Type  
SC : Screw Type

##### 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°C
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## Power, Optical Fiber Connectivity - Outdoor Wireless Networks

### Power, Optic Connectors & Cable Assemblies

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

유비씨에스의 DC/AC 전원 커넥터는 4G & 5G 무선 장비, 정류기 등 옥외 무선네트워크 환경에서 기지국과 장비를 상호연결하며, 전원을 공급하는 데 주로 사용됩니다.

##### 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  
M : Male

F : Female  
RC : Rectifier  
PP : Push-Pull Type  
BN : Bayonet Type  
SC : Screw Type



##### 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°C
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## Power, Optical Fiber Connectivity - Outdoor Wireless Networks

### Power, Optic Connectors & Cable Assemblies

#### DC 40A / 50V SAC & FIC (M) Power Plug (Push-Pull\_4SQ)

유비씨에스의 DC/AC 전원 커넥터는 4G & 5G 무선 장비, 정류기 등 옥외 무선네트워크 환경에서 기지국과 장비를 상호연결하며, 전원을 공급하는 데 주로 사용됩니다.

##### 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  
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



##### 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°C
UV Test	720hours
Corrosion Test	Temperature: 35°C / 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, Optical Fiber Connectivity - Outdoor Wireless Networks

### Power, Optic Connectors & Cable Assemblies

#### DC 40A / 50V SAC (M) Power Plug (Push-Pull\_4SQ)

유비씨에스의 DC/AC 전원 커넥터는 4G & 5G 무선 장비, 정류기 등 옥외 무선네트워크 환경에서 기지국과 장비를 상호연결하며, 전원을 공급하는 데 주로 사용 됩니다.

##### 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  
M : Male

F : Female  
RC : Rectifier  
PP : Push-Pull Type  
BN : Bayonet Type  
SC : Screw Type



##### 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°C
UV Test	720hours
Corrosion Test	Temperature: 35°C / Salinity 5% / Spray volume 1~2 ml / Test time: 720hrs
Vibration Test	Vibration frequency: 10~55Hz, displacement: 0.75mm, time of duration: 6hrs

## Power, Optical Fiber Connectivity - Outdoor Wireless Networks

### Power, Optic Connectors & Cable Assemblies

#### DC 40A / 50V FIC (F) Power Plug (Push-Pull\_4SQ)

유비씨에스의 DC/AC 전원 커넥터는 4G & 5G 무선 장비, 정류기 등 옥외 무선네트워크 환경에서 기지국과 장비를 상호연결하며, 전원을 공급하는 데 주로 사용 됩니다.

##### 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  
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



##### 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

##### 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°C
UV Test	720hours
Corrosion Test	Temperature: 35°C / 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, Optical Fiber Connectivity - Outdoor Wireless Networks

### Power, Optic Connectors & Cable Assemblies

#### DC 65A / 50V FIC (F) Power Plug (Push-Pull\_6SQ)

유비씨에스의 DC/AC 전원 커넥터는 4G & 5G 무선 장비, 정류기 등 옥외 무선네트워크 환경에서 기지국과 장비를 상호연결하며, 전원을 공급하는 데 주로 사용됩니다.

##### 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  
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



##### 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

##### 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°C
UV Test	720hours
Corrosion Test	Temperature: 35°C / 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, Optical Fiber Connectivity - Outdoor Wireless Networks

### Power, Optic Connectors & Cable Assemblies

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

유비씨에스의 Signal 커넥터 및 케이블 어셈블리는 옥외 무선네트워크 환경에서 사용자의 편의를 위해 설계 되었으며, 최고의 연결 솔루션을 제공합니다.

##### 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



##### SPECIFICATIONS

Connector Type	Push-Pull
Mating Cycle	300 (Cycle)
Rated Voltage	50V
Rated Current	5A
Withstanding Voltage	1000V
Insulation Resistance	DC 500V, 10sec, Min 100MΩ
Operating Temperature	-40 to +90°C
Waterproof	IP67 ~ IP68

## Power, Optical Fiber Connectivity - Outdoor Wireless Networks

### Power, Optic Connectors & Cable Assemblies

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

유비씨에스의 DC/AC 전원 커넥터는 4G & 5G 무선 장비, 정류기 등 옥외 무선네트워크 환경에서 기지국과 장비를 상호연결하며, 전원을 공급하는 데 주로 사용됩니다.

##### FEATURES / BENEFITS

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

##### 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



##### FUNCTIONAL SPECIFICATIONS

Connector Type	Push-Pull / Female
Connector Dimension	Ø33 x 37.6mm
Dust & Waterproof Rate	IP67 ~ IP68
Mating Durability	300 (Cycle)

##### OPERATING SPECIFICATIONS

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

##### ENVIRONMENT TEST

Operating Temperature	-40 to +85°C
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## Power, Optical Fiber Connectivity - Outdoor Wireless Networks

### Power, Optic Connectors & Cable Assemblies

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

유비씨에스의 DC/AC 전원 케이블 어셈블리는 4G & 5G 무선 장비, 정류기 등 옥외 무선네트워크 환경에서 기지국과 장비를 상호 연결하며, 전원을 공급하는 데 주로 사용됩니다.

##### FEATURES / BENEFITS

- 1 Safety & Easy field installation [Push-Pull Type]
- 2 Compatible between rectifier & battery 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



##### 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°C
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## Power, Optical Fiber Connectivity - Outdoor Wireless Networks

### Power, Optic Connectors & Cable Assemblies

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

유비씨에스의 Optic 케이블 어셈블리는 옥외 무선네트워크 환경에서 사용자의 편의를 위해 설계 되었으며, 최고의 연결 솔루션을 제공 합니다.

##### FEATURES / BENEFITS

- 1 Push-Pull Type for easy field installation
- 2 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°C
Storage Temperature	-40 to +85°C
Waterproof	IP67 ~ IP68
UV & Salt Spray Test	720hours

## Power, Optical Fiber Connectivity - Outdoor Wireless Networks

### Accessories (Waterproof Kits)

#### OJC Waterproof Kit (Screw\_SS / NK / ELG)

유비씨에스의 방수키트는 혹독한 옥외 환경에서 커넥터를 습기와 먼지 발생에서 보호합니다. 무선 네트워크 영역에서 주로 FTTA와 같은 솔루션 장비 간 연결에 사용됩니다.

##### 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

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°C

## Power, Optical Fiber Connectivity - Outdoor Wireless Networks

### Accessories (Waterproof Kits)

#### RJ45 Alarm Waterproof Kit (Screw\_SS)

유비씨에스의 방수키트는 혹독한 옥외 환경에서 커넥터를 습기와 먼지 발생에서 보호합니다. 무선 네트워크 영역에서 주로 FTTA와 같은 솔루션 장비 간 연결에 사용됩니다.

##### FEATURES / BENEFITS

- 1 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°C

## Power, Optical Fiber Connectivity - Outdoor Wireless Networks

### Accessories (Waterproof Kits)

#### RJ45 Waterproof Kit (Screw\_Rectifier)

유비씨에스의 방수키트는 혹독한 옥외 환경에서 커넥터를 습기와 먼지 발생에서 보호합니다. 무선 네트워크 영역에서 주로 FTTA와 같은 솔루션 장비 간 연결에 사용됩니다.

##### 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  
 M : Male

F : Female  
 RC : Rectifier  
 PP : Push-Pull Type  
 BN : Bayonet Type  
 SC : Screw Type



##### SPECIFICATIONS

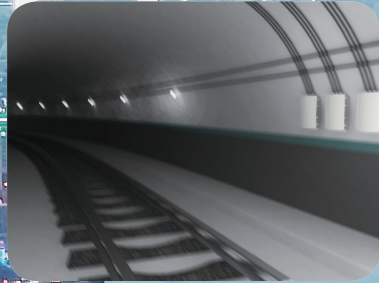
Connector Type	Screw Type
Waterproof Rate	IP67
Mating Durability	300 (Cycle)
Temperature Rating	-40 to +85°C



5G Networks



In-buildings (DAS)



Indoor Coverage

# RF Connectivity

## Wireless Infrastructure

유비씨에스는 모바일 커버리지가 운용되는 기지국, 인빌딩, 지하철, 터널 등 다양한 통신 인프라 환경에서 스마트한 케이블링 솔루션 뿐만 아니라, 고성능의 안정적인 "RF 연결" 포트폴리오를 제공합니다.

# RF Connectivity - Wireless Infrastructure

Coaxial Connectors, DC ~ 4GHz

## 7-16 DIN Series

유비씨에스의 동축 커넥터는 RF 애플리케이션에 널리 사용되며 주로 기지국, 인빌딩(DAS), 옥외 및 지하철, 네트워크 인프라, 테스트 & 측정 등 다양한 사업 분야에서 사용됩니다.

### FEATURES / BENEFITS

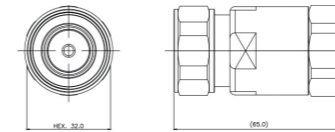
- 1 Robust mechanical design
- 2 Outstanding system characteristics
- 3 High durability
- 4 Low PIM

### APPLICATIONS

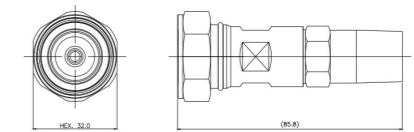
- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-buildings (DAS)
- 5 Outdoor and Indoor
- 6 Radios and Filter Output



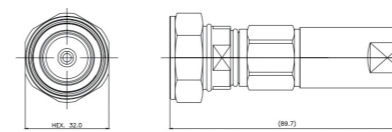
### BLOCK DIAGRAM / LINE UP



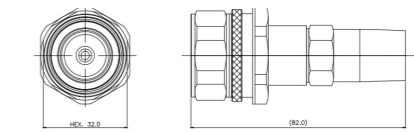
7-16 DIN Male for 7/8" Flexible Coaxial Cable [Straight]



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	≤ -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	IEC68-2-6			

# RF Connectivity - Wireless Infrastructure

Coaxial Connectors, DC ~ 4GHz

## N Series

유비씨에스의 동축 커넥터는 RF 애플리케이션에 널리 사용되며 주로 기지국, 인빌딩(DAS), 옥외 및 지하철, 네트워크 인프라, 테스트 & 측정 등 다양한 사업 분야에서 사용됩니다.

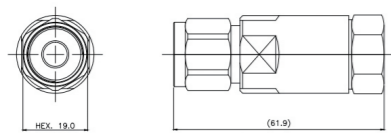
### FEATURES / BENEFITS

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

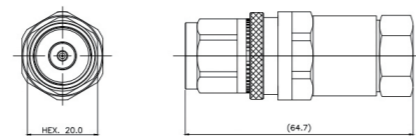
### APPLICATIONS

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

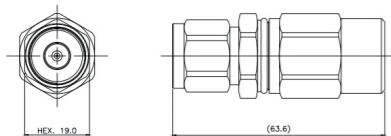
### BLOCK DIAGRAM / LINE UP



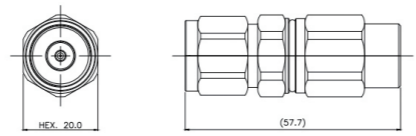
N Male for 1/2" Flexible Coaxial Cable [Straight]



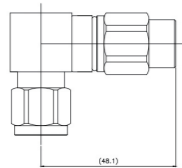
N Male for 1/2" Flexible Coaxial Cable [Straight, Anti-loosening]



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



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



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

### 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	≥ 10GΩ			
Center Contact Resistance	≤ 0.005Ω			
Outer Contact Resistance	≤ 0.01Ω			
Operating Temperature	-40 °C ~ +70 °C			
Humidity	IEC68-2-30			
Vibration	IEC68-2-6			

# RF Connectivity - Wireless Infrastructure

Coaxial Connectors, DC ~ 4GHz

## 4.3-10 Series

유비씨에스의 동축 커넥터는 RF 애플리케이션에 널리 사용되며 주로 기지국, 인빌딩(DAS), 옥외 및 지하철, 네트워크 인프라, 테스트 & 측정 등 다양한 사업 분야에서 사용됩니다.

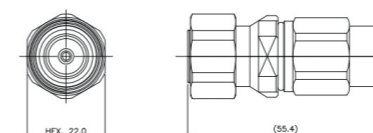
### FEATURES / BENEFITS

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

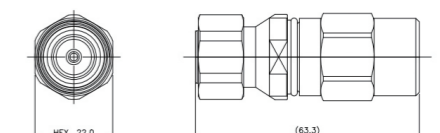
### APPLICATIONS

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

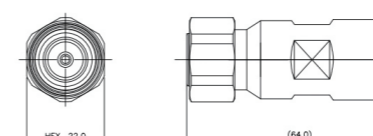
### BLOCK DIAGRAM / LINE UP



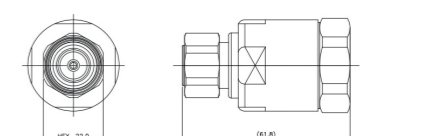
4.3-10 Male for 2/5" Flexible Coaxial Cable, Smooth Wall Type [Straight]



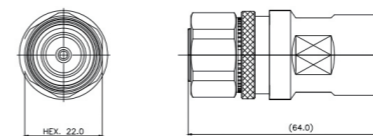
4.3-10 Male for 1/2" Flexible Coaxial Cable, Smooth Wall Type [Straight]



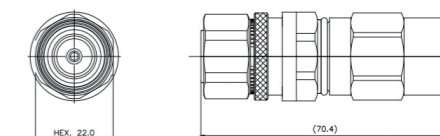
4.3-10 Male for 1/2" Flexible Coaxial Cable [Straight]



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



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



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	≤ -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	IEC68-2-6			

# RF Connectivity - Wireless Infrastructure

## Coaxial Cable Assemblies

### Jumper & Feeder

유비씨에스는 사용자의 최적 작업 & 설치 환경을 고려하여 더욱 효율적인 케이블 어셈블리를 개발하고 생산하는 데 초점을 맞추고 있습니다.

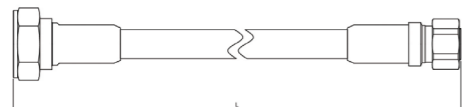
#### FEATURES / BENEFITS

- 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

Impedance	50Ω	
Frequency Range Up To	DC ~ 4GHz	
Insertion Loss	[(Cable loss + 0.1) x √f(GHz)] x 1.15	
VSWR	DC ~ 2.7 GHz	1.2:1 Max.
	DC ~ 4 GHz	1.3:1 Max.
PIMD	"3rd Order IM Product @2 x 43dBm"	Static: ≤ -160dBc Dynamic: ≤ -150dBc
	"5rd Order IM Product @2 x 43dBm"	Static: ≤ -170dBc Dynamic: ≤ -160dBc
Operating Temperature	-40 °C ~ +70 °C	
Waterproof (Protection Class)	IP67	
Connector Type	Custom	

# RF Connectivity - Wireless Infrastructure

## Passive Components

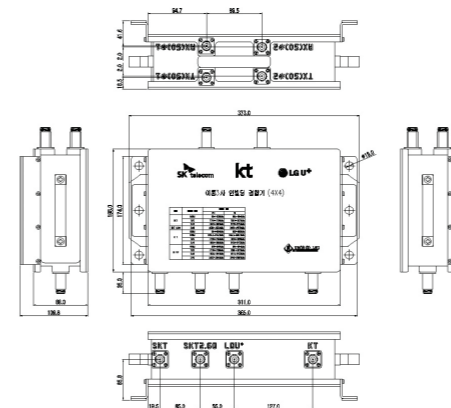
### 4X4 Combiner, 819-2700MHz, N Female

유비씨에스의 결합기는 일반적으로 특성 임피던스가 유지되는 환경에서 RF 전력을 결합하는 데 사용됩니다.

#### FEATURES / BENEFITS

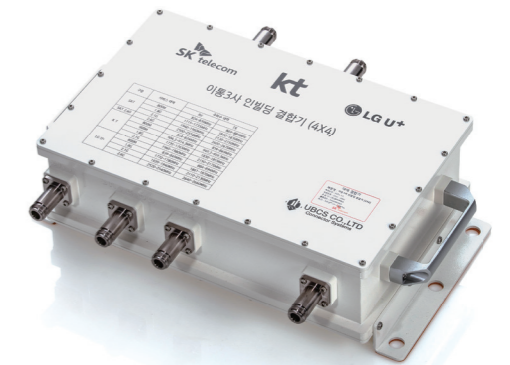
- 1 Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

#### BLOCK DIAGRAM



#### APPLICATIONS

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



#### SPECIFICATIONS

Impedance	50Ω				
Frequency Range Up To	SK Telecom (Pass Band)	800M	1.8G	2.1G	
	KT (Pass Band)	814~824MHz	904.3~914.3MHz	1735~1765MHz	1960~1980MHz
		859~869MHz	949.3~959.3MHz	1830~1859MHz	2150~2170MHz
	LGU+ (Pass Band)	800M	1.8G	2.1G	2.6G
		839~849MHz	1770~1780MHz	1920~1940MHz	2520~2540MHz
884~894MHz	1861~1870MHz	2110~2130MHz	2640~2660MHz		
SK Telecom 2.6G (Pass Band)	2.6G				
	2500~2520MHz, 2540~2550MHz, 2620~2640MHz, 2660~2670MHz				
Insertion Loss	4.8dB Max. (KT 1.8G TX , LGU+ 1.8G TX 5.8dB Max. KT 1.8G RX , LGU+ 1.8G RX 5.3dB Max.)				
Return Loss	-18.0dB Max. (Input Port)				
Isolation	All other path	22dB Max. / KT 1.8G TX ↔ LGU+ 1.8G TX 20dB Max.			
	LGU+ → KT port	48dB Min.@884~894MHz			
	SKT → LGU+ port	50dB min.@1810~1830MHz			
	SKT → KT port	50dB min.@904.3~914.3MHz			
PIMD	"5th -160dBc Min. 7th -170dBc Min @ 43dBm x 2Tone SKT 2.6G Port 3rd (-150dBc), 5th Test				
Max Input Power	SKT port : 240W Max. (avg. power) KT port : 320W Max. (avg. power) LGU+ port : 320W Max. (avg. power) SKT 2.6G port : 80W Max. (avg. power)				
Connector Type	N(F) Type				
Operating Temperature	-30°C ~ +60°C				
Waterproof (Protection Class)	IP67				
Humidity	95%				

# RF Connectivity - Wireless Infrastructure

## Passive Components

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

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

유비씨에스의 결합기는 일반적으로 특성 임피던스가 유지되는 환경에서 RF 전력을 결합하는 데 사용됩니다.

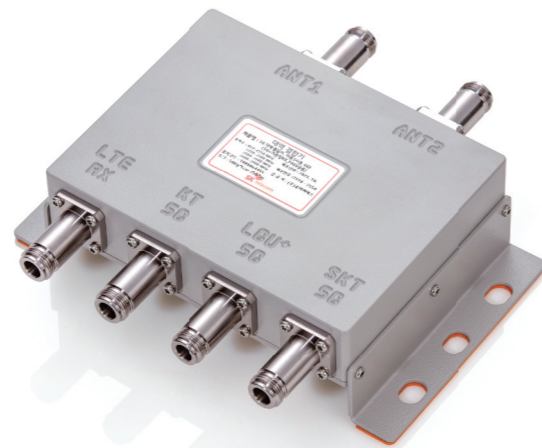
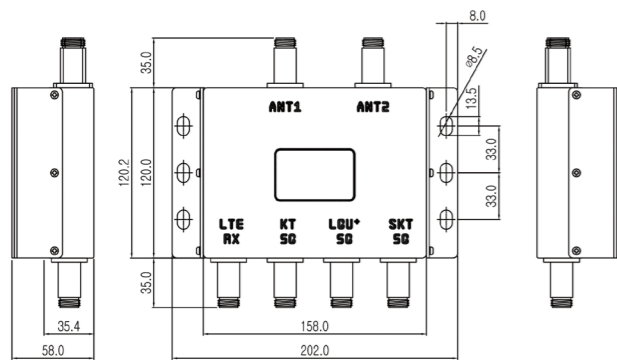
#### FEATURES / BENEFITS

- 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-building Systems (DAS)
- 5 Indoor

#### BLOCK DIAGRAM



#### SPECIFICATIONS

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

# RF Connectivity - Wireless Infrastructure

## Passive Components

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

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

유비씨에스의 결합기는 일반적으로 특성 임피던스가 유지되는 환경에서 RF 전력을 결합하는 데 사용됩니다.

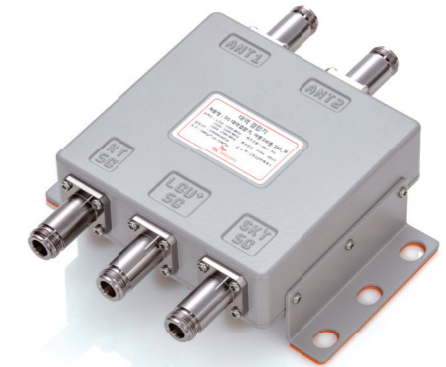
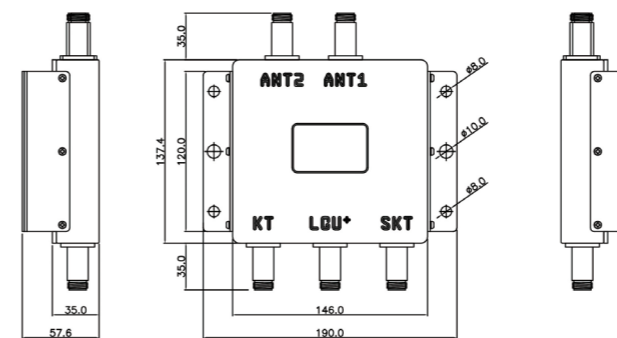
#### FEATURES / BENEFITS

- 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-building Systems (DAS)
- 5 Indoor

#### BLOCK DIAGRAM / LINE UP



#### SPECIFICATIONS

Impedance	50Ω		
Frequency Range Up To	P1	P2	P3
	KT	SK Telecom	LG U+
	3500~3600MHz	3600~3900MHz	3350~3500MHz
Insertion Loss	P1	P2	P3
	-4.2dB Min.	-4.2dB Min.	-4.2dB Min.
Return Loss	-18.0dB Max. (Input Port)		
Isolation	-20dB Max. (P1↔P2, P1↔P3)		
	-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
	100W Max.	100W Max.	100W Max.
Operating Temperature	-30 °C ~ +60 °C		
Waterproof (Protection Class)	IP67		
Humidity	95%		

# RF Connectivity - Wireless Infrastructure

## Passive Components

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

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

유비씨에스의 결합기는 일반적으로 특성 임피던스가 유지되는 환경에서 RF 전력을 결합하는 데 사용됩니다.

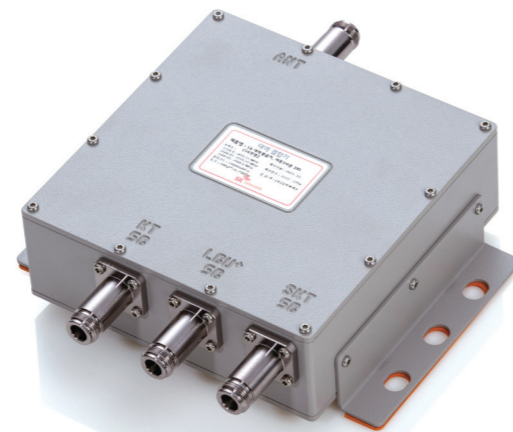
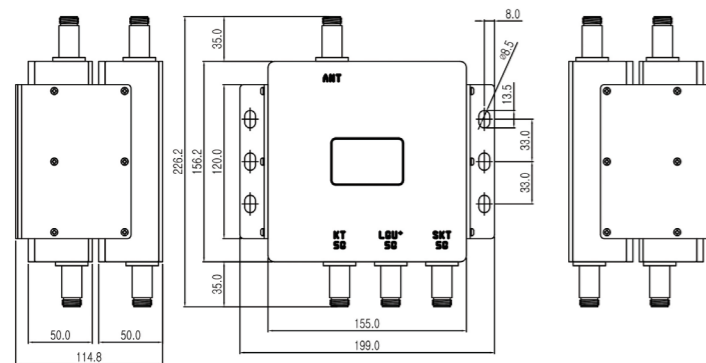
#### FEATURES / BENEFITS

- 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-building Systems (DAS)
- 5 Indoor

#### BLOCK DIAGRAM / LINE UP



#### SPECIFICATIONS

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

# RF Connectivity - Wireless Infrastructure

## Passive Components

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

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

유비씨에스의 결합기는 일반적으로 특성 임피던스가 유지되는 환경에서 RF 전력을 결합하는 데 사용됩니다.

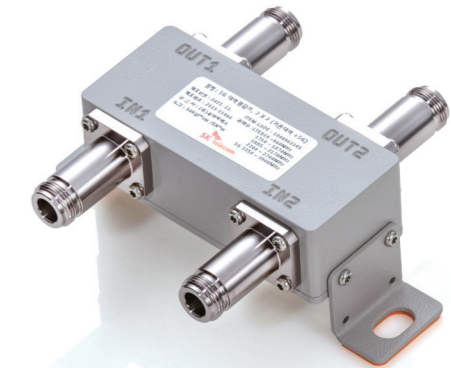
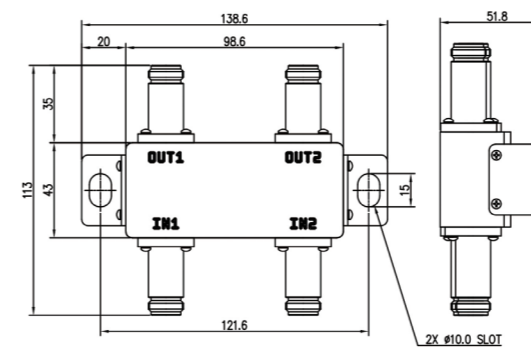
#### FEATURES / BENEFITS

- 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-building Systems (DAS)
- 5 Indoor

#### BLOCK DIAGRAM



#### SPECIFICATIONS

SPECIFICATIONS		
Impedance	50Ω	
Frequency Range Up To	LTE	5G
	~ 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%	

# RF Connectivity - Wireless Infrastructure

## Passive Components

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

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

유비씨에스의 분배기는 신호를 하나의 입력 포트에서 2개, 3개 또는 4개의 출력 포트로 균등하게 분할하는 데 사용됩니다.

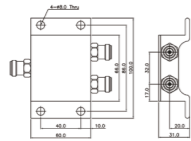
#### FEATURES / BENEFITS

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

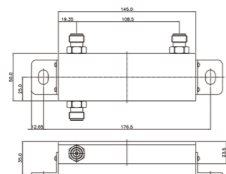
#### APPLICATIONS

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

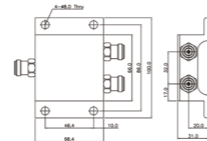
#### BLOCK DIAGRAM / LINE UP



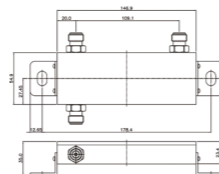
2-Way Power Splitter, N Female, 150W 819-3900MHz [1:1 Split Ratio]



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



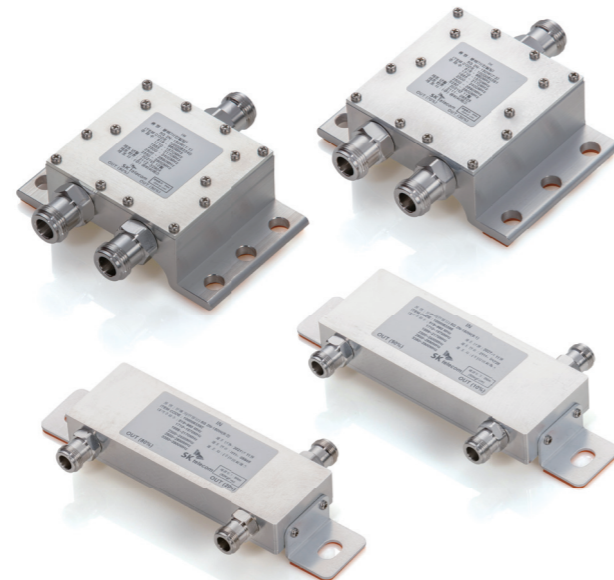
2-Way Power Splitter, N Female, 150W 819-3900MHz [7:3 Split Ratio]



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



# RF Connectivity - Wireless Infrastructure

## Passive Components

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

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

유비씨에스의 분배기는 신호를 하나의 입력 포트에서 2개, 3개 또는 4개의 출력 포트로 균등하게 분할하는 데 사용됩니다.

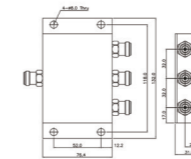
#### FEATURES / BENEFITS

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

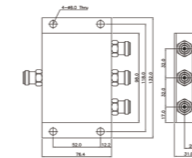
#### APPLICATIONS

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

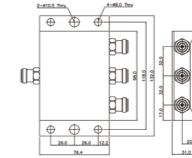
#### BLOCK DIAGRAM / LINE UP



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, 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



# RF Connectivity - Wireless Infrastructure

## Passive Components

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

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

유비씨에스의 분배기는 신호를 하나의 입력 포트에서 2개, 3개 또는 4개의 출력 포트로 균등하게 분할하는 데 사용됩니다.

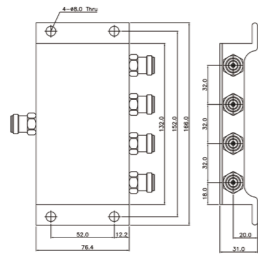
#### FEATURES / BENEFITS

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

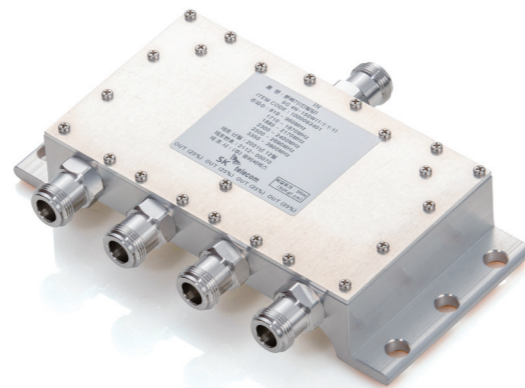
#### APPLICATIONS

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

#### BLOCK DIAGRAM / LINE UP



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

# RF Connectivity - Wireless Infrastructure

## Passive Components

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

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

유비씨에스의 분배기는 신호를 하나의 입력 포트에서 2개, 3개 또는 4개의 출력 포트로 균등하게 분할하는 데 사용됩니다.

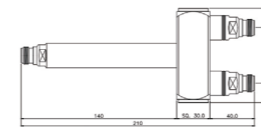
#### FEATURES / BENEFITS

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

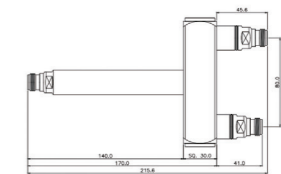
#### APPLICATIONS

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

#### BLOCK DIAGRAM / LINE UP



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



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



# RF Connectivity - Wireless Infrastructure

## Passive Components

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

3350~3900MHz

유비씨에스의 분배기는 신호를 하나의 입력 포트에서 2개, 3개 또는 4개의 출력 포트로 균등하게 분할하는 데 사용됩니다.

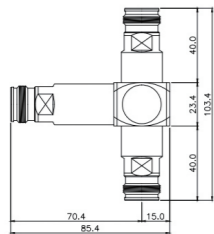
#### FEATURES / BENEFITS

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

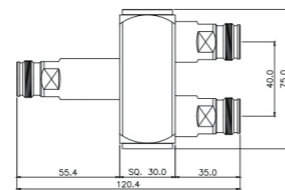
#### APPLICATIONS

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

#### BLOCK DIAGRAM / LINE UP



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 °C ~ +70 °C
Waterproof (Protection Class)	IP67
Humidity	95%
Port	3 Port

# RF Connectivity - Wireless Infrastructure

## Passive Components

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

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

유비씨에스의 분배기는 신호를 하나의 입력 포트에서 2개, 3개 또는 4개의 출력 포트로 균등하게 분할하는 데 사용됩니다.

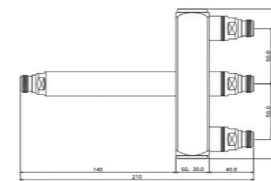
#### FEATURES / BENEFITS

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

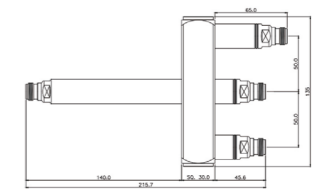
#### APPLICATIONS

- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-building 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, 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

# RF Connectivity - Wireless Infrastructure

## Passive Components

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

3350~3900MHz

유비씨에스의 분배기는 신호를 하나의 입력 포트에서 2개, 3개 또는 4개의 출력 포트로 균등하게 분할하는 데 사용됩니다.

#### FEATURES / BENEFITS

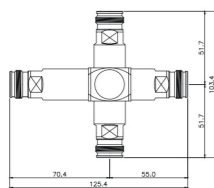
- 1 Robust mechanical design
- 2 Outstanding system characteristics
- 3 Suitable for in-building (DAS) applications
- 4 Very low insertion loss

#### APPLICATIONS

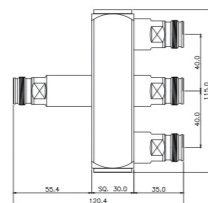
- 1 5G Networks
- 2 Wireless Infrastructure
- 3 Antenna Systems
- 4 In-building Systems (DAS)
- 5 Indoor



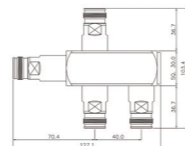
#### BLOCK DIAGRAM / LINE UP



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

## Test & Measurement

유비씨에스는 RF Test & Measurement 영역에서 고객에게 최고의 솔루션을 제공합니다.

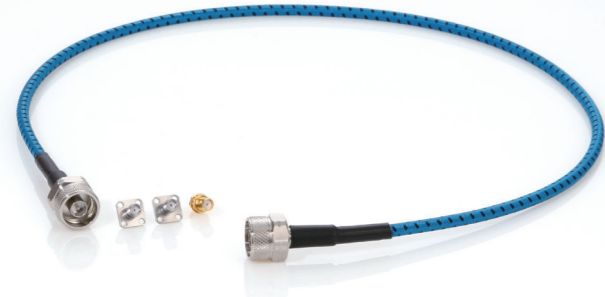
고객의 요청에 따라 맞춤형 개발 및 제품 공급이 가능합니다.



# RF Connectors & Cable Assemblies

## DC ~ 40GHz

유비씨에스의 Test 케이블 어셈블리는 최대 40GHz 주파수를 바탕으로 뛰어난 성능과 저손실, 낮은 VSWR, 높은 내구성의 장점을 가지고 있습니다.



### FEATURES / BENEFITS

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

### APPLICATIONS

- 1 Test & Measurement

\* Cable Assemblies : Custom Made

CONNECTOR	FREQUENCY RANGE (GHz)						
	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	50Ω					
VSWR (Max.)	1.2:1					
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 resistance	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.
	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	500matings MIL-C-39012					100matings
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	50Ω			
VSWR (Max.)	1.2:1			
Insertion loss	0.06 √F	0.05 √F	0.03 √F	0.05 √F
Insulation resistance	DC500V 5,000MΩ Min.			
Contact resistance	Outer conductor : 2mΩ Max.	Outer conductor : 2mΩ Max.	Outer conductor : 2mΩ Max.	Outer conductor : 1mΩ Max.
	Inner conductor : 3mΩ Max.	Inner conductor : 3mΩ Max.	Inner conductor : 3mΩ Max.	Inner conductor : 1mΩ Max.
Durability	500matings MIL-C-39012			
Coupling nut retention force	65Kgf Min	65Kgf Min	65Kgf 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 : 2mΩ 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.
	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

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end-to-end solutions  
between people,  
places and networks



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