



Power, Optical Fiber Connectivity

Outdoor Wireless Networks

UBCS's portfolio includes power and optical fiber communications products that connect 4G & 5G Radio Units and rectifiers and serve the outdoor wireless networks.

To provide an optimal user experience, they are designed and customized to serve customer needs. UBCS provides the most robust and high performing solutions with our high-quality products.



Outdoor wireless networks

Power, Optical Fiber Connectivity - Outdoor Wireless Networks

Power, Optic Connectors & Cable Assemblies

AC 220V / 20A FIC Power Connector (Push-Pull Type)

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

SOC : Solder Connector



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℃
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, Optical Fiber Connectivity - Outdoor Wireless Networks

Power, Optic Connectors & Cable Assemblies

AC Male 4H Flange Mount Connector (Push-Pull Type)

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



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℃
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Power, Optical Fiber Connectivity - Outdoor Wireless Networks

Power, Optic Connectors & Cable Assemblies

DC Female 4H Flange Mount Connector (Push-Pull Type)

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



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℃
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Power, Optical Fiber Connectivity - Outdoor Wireless Networks

Power, Optic Connectors & Cable Assemblies

DC 48V / 40A SOC & FIC Power Connector

(Push-Pull Type)

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

SOC : Solder Connector



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 48V / 40A SOC Power Connector (Push-Pull Type)

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

SOC : Solder Connector



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, Optical Fiber Connectivity - Outdoor Wireless Networks

Power, Optic Connectors & Cable Assemblies

DC 48V / 40A Plug FIC Power Connector (Push-Pull Type)

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

SOC : Solder Connector



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 48V / 63A FIC High Power Connector

(Push-Pull Type)

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

SOC : Solder Connector



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 Type)

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



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℃
Waterproof	IP67 ~ IP68

Power, Optical Fiber Connectivity - Outdoor Wireless Networks

Power, Optic Connectors & Cable Assemblies

DC 80A 4H Female High Power Connector

(Push-Pull Type)

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]
- 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

SOC : Solder Connector



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 Power Cable Assembly (Push-Pull Type)

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]
- 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

SOC : Solder Connector



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

Outdoor CPRI Connector Optic 6.3mm Path Cord

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
- 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



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

Outdoor Optic Connector Waterproof Kit

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



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)

Outdoor RJ45 Alarm Waterproof Kit

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

- 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



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)

Outdoor RJ45 Waterproof Kit

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

- 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



SPECIFICATIONS

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