

ELITAVIA

WATERPROOF CONNECTORS

STANDARD M5 M8 M9 M12 M15 M22

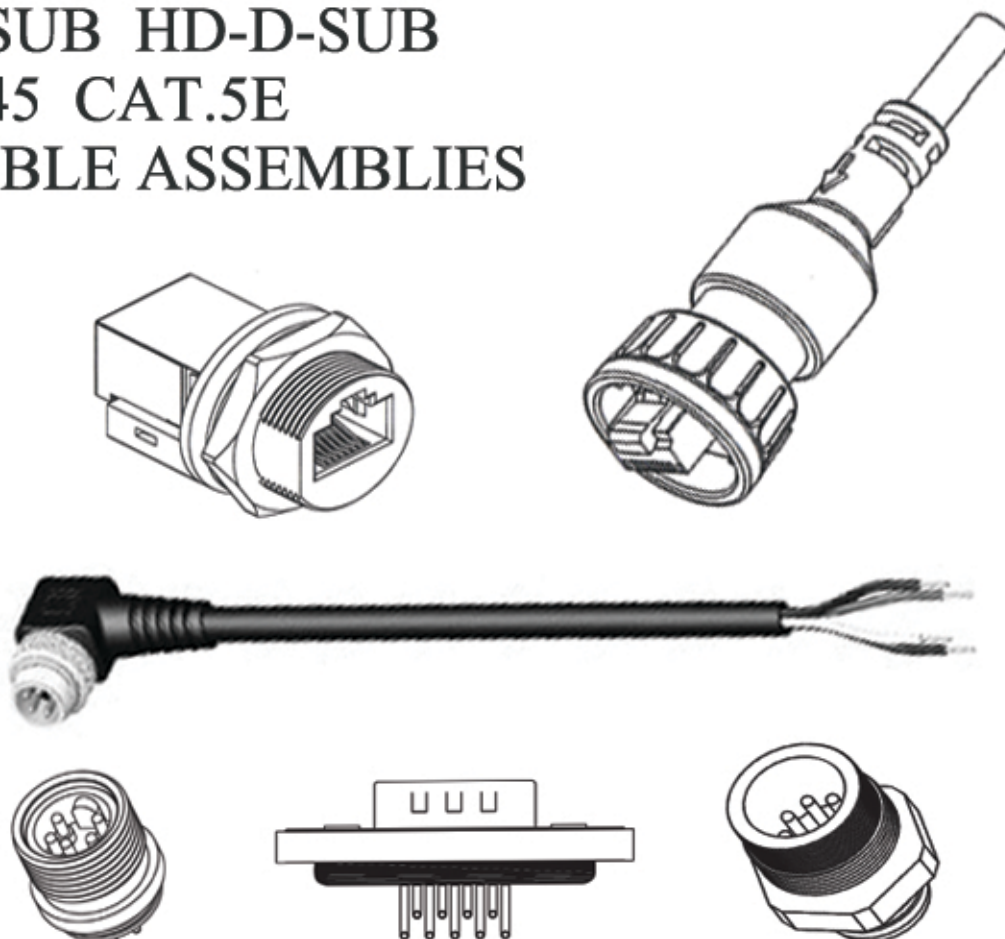
USB MINIUSB

DIN HDMI

D-SUB HD-D-SUB

RJ45 CAT.5E

CABLE ASSEMBLIES



CAT. WPS-P PARTE 1

PARTE 1

DESCRIPTION

PAGE NO.

WATERPROOF RJ45, FIBER OPTIC, SMB, HDMI & USB SERIES

WATERPROOF RJ45 MODULAR JACK, COUPLER & PLUG PLASTIC LOCK TYPE-----	P4001~P1006
WATERPROOF RJ45 MODULAR JACK, COUPLER & PLUG METAL LOCK TYPE-----	P1101~P1108
WATERPROOF RJ45 MODULAR JACK, COUPLER & PLUG PLASTIC SCREW TYPE-----	P1201~P1219
WATERPROOF RJ45 MODULAR JACK & PLUG PUSH-PULL TYPE-----	P1301~P1308
WATERPROOF LC FIBER OPTIC JACK & PLUG PUSH-PULL TYPE-----	P1401~P1407
WATERPROOF RJ45 CABLE ASSEMBLIES-----	P1501~P1509
WATERPROOF USB A TYPE JACKS & CABLE ASSEMBLIES-----	P1601~P1626
WATERPROOF USB 2.0 A TYPE JACKS & CABLE ASSEMBLIES-----	P1661~P1664
WATERPROOF USB 3.0 A TYPE JACKS & CABLE ASSEMBLIES-----	P1671~P1676
WATERPROOF USB B TYPE JACKS & CABLE ASSEMBLIES-----	P1701~P1706
WATERPROOF MINI USB JACKS & CABLE ASSEMBLIES-----	P1801~P1827
WATERPROOF MICRO USB AB TYPE JACKS & CABLE ASSEMBLIES-----	P1851~P1854
WATERPROOF SMB CAP & CABLE ASSEMBLIES-----	P1901~P1904
WATERPROOF HDMI JACKS & CABLE ASSEMBLIES-----	P1981~P1984

WATERPROOF D-SUB. & HIGH DENSITY D-SUB. SERIES

WATERPROOF D-SUB. MALE CABLE SOLDER CONNECTORS-----	P3001~P3007
WATERPROOF D-SUB. FEMALE CABLE SOLDER CONNECTORS-----	P3051~P3054
WATERPROOF D-SUB. MALE STRAIGHT PCB MOUNT CONNECTORS-----	P3101~P3104
WATERPROOF D-SUB. FEMALE STRAIGHT PCB MOUNT CONNECTORS-----	P3151~P3154
WATERPROOF D-SUB. MALE RIGHT ANGLE PCB MOUNT CONNECTORS-----	P3201~P3204
WATERPROOF D-SUB. FEMALE RIGHT ANGLE PCB MOUNT CONNECTORS-----	P3251~P3254
WATERPROOF HIGH DENSITY D-SUB. MALE SOLDER CONNECTORS-----	P3301~P3304
WATERPROOF HIGH DENSITY D-SUB. FEMALE SOLDER CONNECTORS-----	P3351~P3355
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WATERPROOF HIGH DENSITY D-SUB. FEMALE STRAIGHT PCB MOUNT CONNECTORS-----	P3451~P3454
WATERPROOF HIGH DENSITY D-SUB. MALE R/A PCB MOUNT CONNECTORS-----	P3501~P3504
WATERPROOF HIGH DENSITY D-SUB. FEMALE R/A PCB MOUNT CONNECTORS-----	P3551~P3554
WATERPROOF CABLE WITH D-SUB. CONNECTORS-----	P3601

PARTE 2

WATERPROOF MULTI-CONTACT SERIES

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WATERPROOF 3P, 6P MALE & FEMALE CONNECTORS-----	P4101~P4106

WATERPROOF DIN & MINI DIN SERIES

WATERPROOF IP40 RATED DIN CABLE PLUGS-----	P4301~P4302
WATERPROOF DIN JACKS & DIN SOCKETS-----	P4321~P4328
WATERPROOF MINI DIN SOCKET-----	P4401
WATERPROOF IP67 RATED M35 41A POWER CONNECTORS-----	P4501~P4504

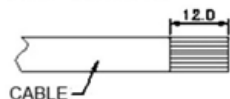
WATERPROOF M5, M8, M9, M12, M22 & M23 SERIES

WATERPROOF M5 FEMALE CONNECTORS-----	P5001~P5006
WATERPROOF M5 MALE CONNECTORS-----	P5101~P5106
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WATERPROOF M12 FEMALE CONNECTORS CABLE SOLDER & ASSEMBLY TYPE-----	P5501~P5547
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WATERPROOF M12 MALE CONNECTORS PCB MOUNT DIP TYPE-----	P5681~P5686
WATERPROOF M22 (7/8") FEMALE CONNECTORS-----	P5701~P5713
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WATERPROOF M23 FEMALE & MALE CONNECTORS-----	P5801~P5803
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WATERPROOF M22 CABLE ASSEMBLIES-----	P5941~P5946
WATERPROOF CIRCULAR TYPE C FEMALE & MALE CONNECTORS-----	P5951~P5956

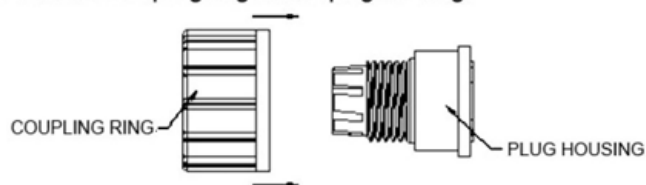
- TECHNICAL ALTERATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
- ALL ARTICLES ARE RoHS & REACH/SVHC COMPLIANT.

ASSEMBLY INSTRUCTION FOR WP51 SERIES WATERPROOF RJ45 PLUG

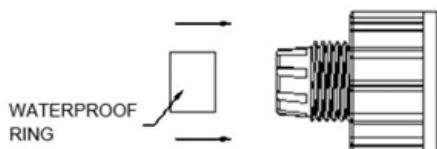
1. Strip the cable out jacket.
(It is suitable for AWG24 cable.)



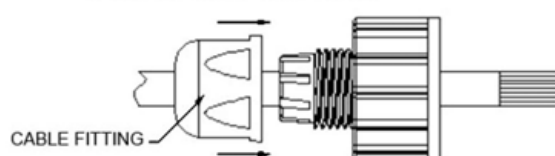
2. Put the coupling ring on the plug housing.



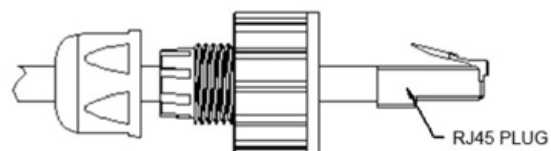
3. Push the waterproof ring into the bottom of the plug housing inner hole.



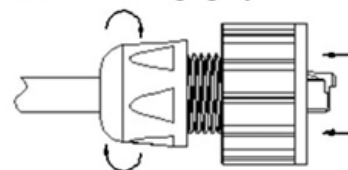
4. Insert the stripped cable through coupling ring, plug housing & cable fitting.



5. Crimp RJ45 plug with stripped cable.



6. Pull the crimped RJ45 plug into plug housing and screw the cable fitting tightly.



WP51 SERIES WATERPROOF RJ45 PLUG COVER:

P/N WP51-COVER1

(SEE PAGE P1002!)

WATERPROOF IP68 RATED PLASTIC LOCK TYPE RJ45 CABLE SIDE COVER

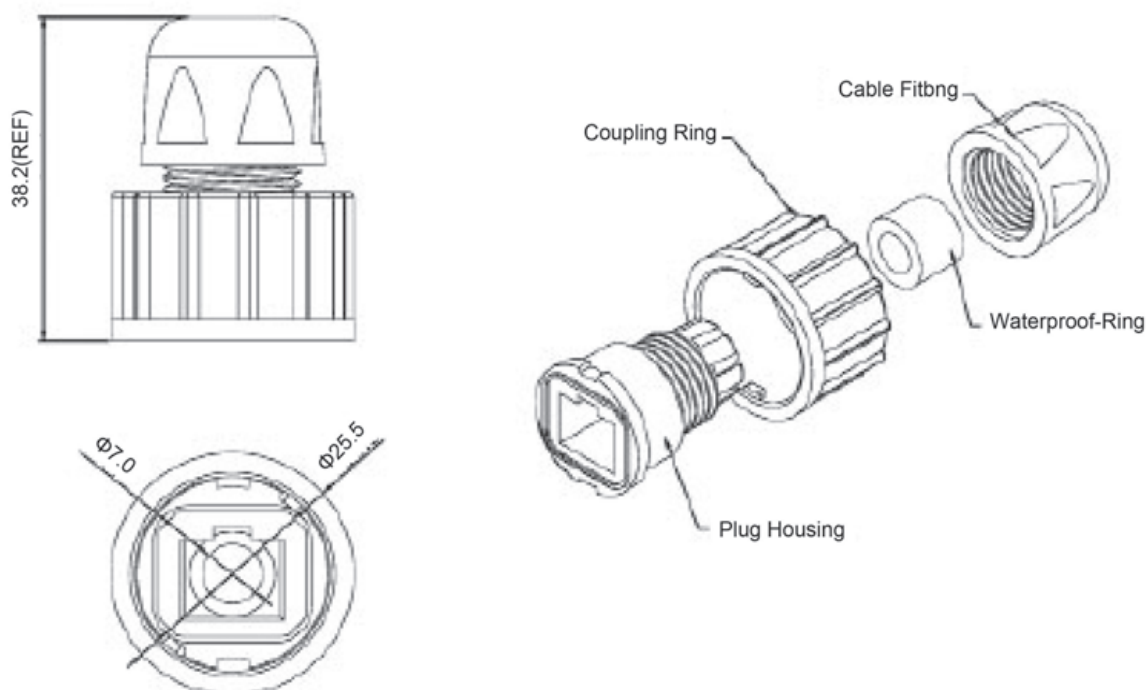
MATERIALS:

Housing: Engineering Thermoplastic
UL94V-0, Color:Black.

Seal: Silicon, Color:Red.

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP51-COVER1

WATERPROOF IP68 RATED PLASTIC
LOCK TYPE RJ45 CABLE SIDE COVER
FOR ETHERNET CABLE DIAMETER
RANGE $\Phi 7 \sim \Phi 5.5 \text{MM}$

NOTE: CABLE ASSEMBLY INSTRUCTION SEE PAGE P1001!

WATERPROOF IP68 RATED PLASTIC LOCK TYPE RJ45 PCB JACK

MATERIALS:

Plastic Housing: High Temp. Thermoplastic
Flammability Rating UL94V-0.

Contacts: Phosphor Bronze.

Plating: Gold Plating Over Nickel In Contact.

Tin Plating Over Nickel In Solder Area.

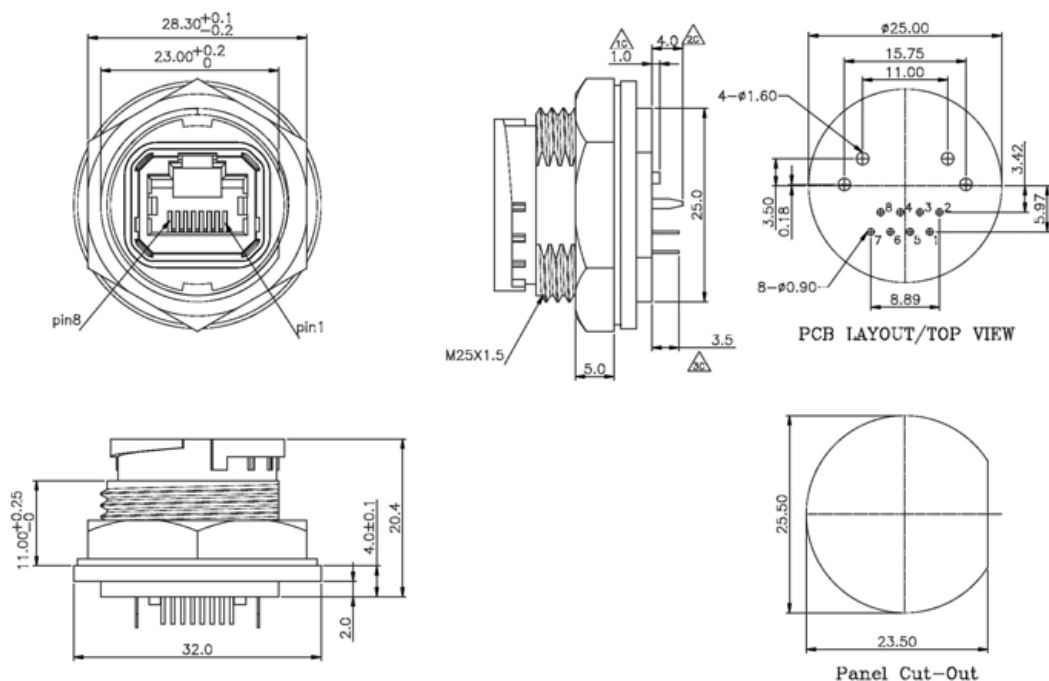
Shielded: Brass With Nickel Plated.

Nut: Engineering Thermoplastic Flammability Rating UL94V-0.

Gasket: Silicon

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP51-88F2

WATERPROOF IP68 RATED PLASTIC LOCK TYPE RJ45 (8P8C)
PCB MOUNT JACK FOR PANEL THICKNESS 1~3MM

NOTE: MATES WITH WATERPROOF CAP
P/N WP51-CAP01

WATERPROOF IP68 RATED PLASTIC LOCK TYPE RJ45 JACK WITH 8 PIN R/A HEADER

MATERIALS:

Plastic Housing: High Temp. Thermoplastic
Flammability Rating UL94V-0.

Contacts: Phosphor Bronze.

Plating: Gold Plating Over Nickel In Contact.

Tin Plating Over Nickel In Solder Area.

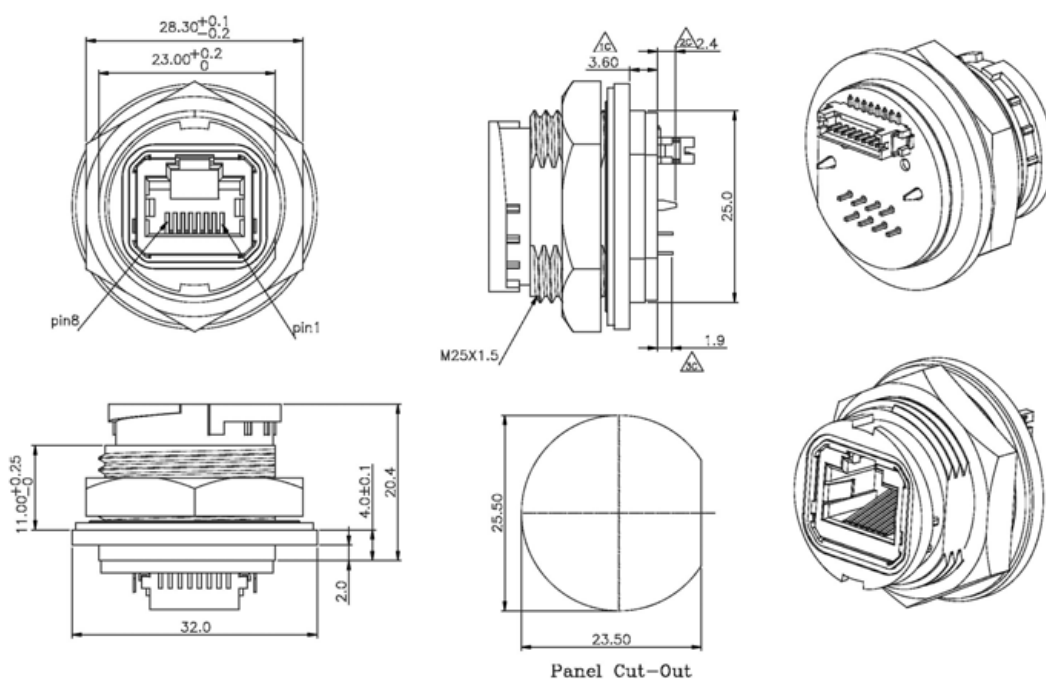
Shielded: Brass With Nickel Plated.

Nut: Engineering Thermoplastic Flammability Rating UL94V-0.

Gasket: Silicon

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP51-88F3

WATERPROOF IP68 RATED PLASTIC LOCK TYPE
RJ45 (8P8C) JACK WITH 1.25MM PITCH 1x8 PIN
RIGHT ANGLE HEADER FOR PANEL THICKNESS 1~3MM

NOTE: MATES WITH WATERPROOF CAP
P/N WP51-CAP01

WATERPROOF IP68 RATED CAT. 6 PLASTIC LOCK TYPE RJ45 KEYSTONE JACK

MATERIALS:

Plastic Housing: High Temp. Thermoplastic
Flammability Rating UL94V-0.

Contacts: Phosphor Bronze.

Contacts Plating: Gold Plating Over Nickel In Contact.

IDC Pin: Brass.

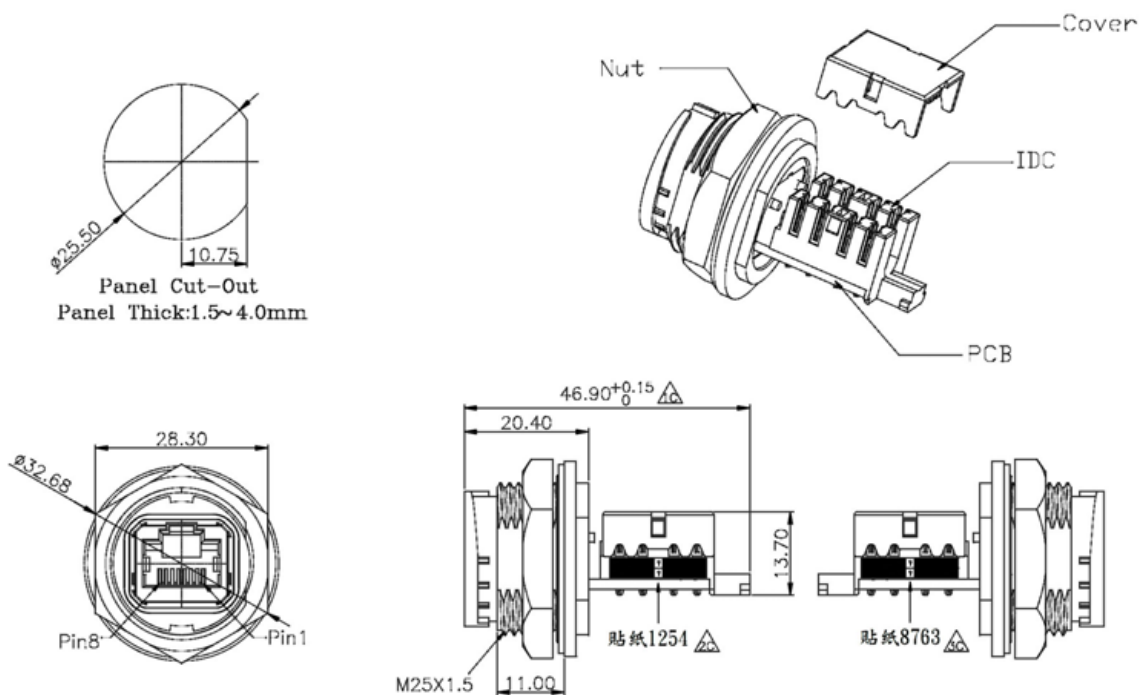
IDC Pin Plating: Tin Plating Over Nickel.

Gasket: Silicon

Specification: Cat. 6

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP51-06KS

WATERPROOF IP68 RATED CAT. 6 PLASTIC LOCK
TYPE RJ45 (8P8C) KEYSTONE JACK FOR CABLE
ASSEMBLY & PANEL THICKNESS 1~3MM

NOTE: MATES WITH WATERPROOF CAP
P/N WP51-CAP01

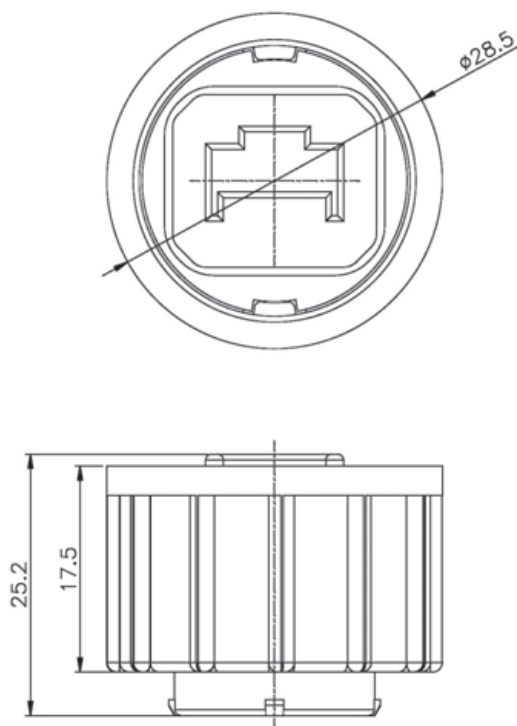
WATERPROOF IP68 RATED CAP FOR PLASTIC LOCK TYPE RJ45 JACK

MATERIALS:

Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

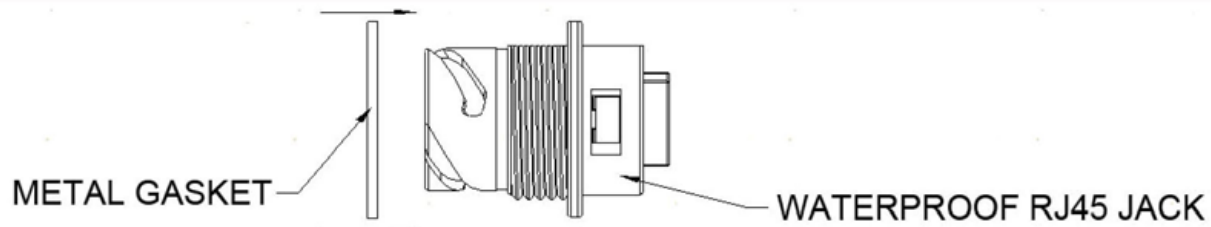
P/N WP51 - CAP01

WATERPROOF IP68 RATED CAP FOR PLASTIC
LOCK TYPE RJ45 (8P8C) JACK

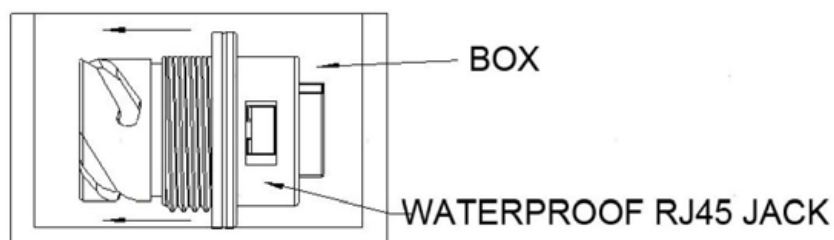
NOTE: MATES WITH WATERPROOF RJ45 JACK
P/N WP51-88F2, WP51-88F3 & WP51-06KS

ASSEMBLY INSTRUCTION FOR WP53M SERIES WATERPROOF RJ45 JACK

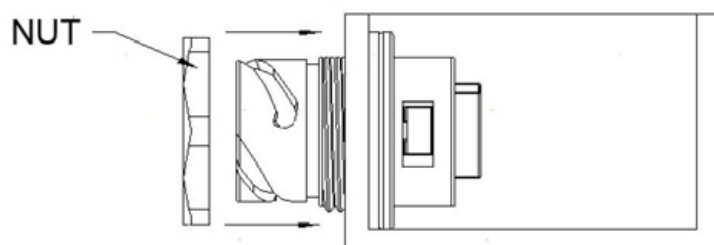
1. Put metal gasket on RJ45 jack.



2. Insert assembled RJ45 jack from box inside into the hole.



3. Put the nut on the RJ45 jack and screw it tightly.



WP53M SERIES WATERPROOF RJ45 JACKS:

P/N W P 5 3 M - 8 8 F 1

(SEE PAGE P1104!)

P/N W P 5 3 M - 5 E F 2

(SEE PAGE P1105!)

P/N W P 5 3 M - 5 E F 3

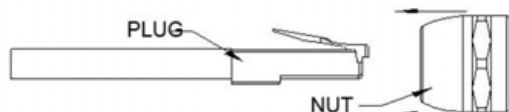
(SEE PAGE P1106!)

P/N W P 5 3 M - 5 E K S

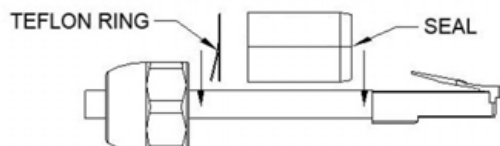
(SEE PAGE P1107!)

ASSEMBLY INSTRUCTION FOR WP53M SERIES WATERPROOF RJ45 JACK & PLUG SET

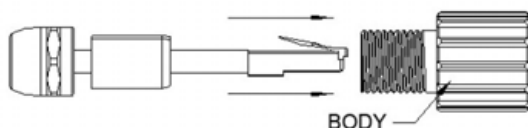
1. Insert assembled RJ45 plug into nut.



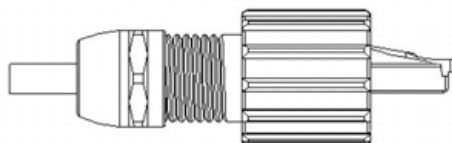
2. Put teflon ring & seal with opening on the assembled cable.
(Two openings should be not in the same place.)



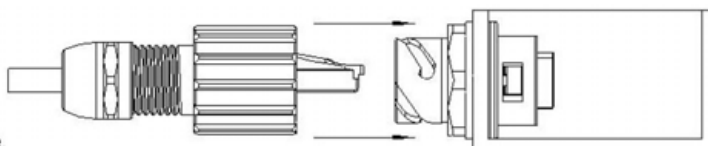
3. Insert plug, teflon ring & seal into body and screw the nut tightly.



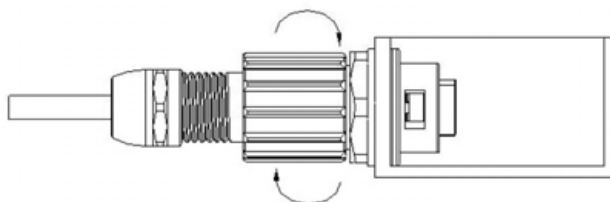
4. It shows the already assembled cable cover.



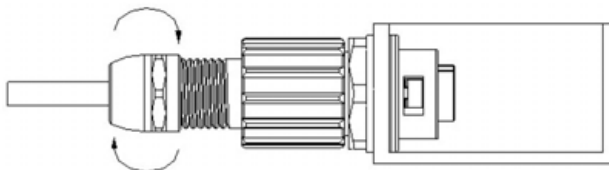
5. Insert RJ45 plug into waterproof box.



6. Screw the cable side cover into RJ45 jack tightly.



7. Screw the nut tightly.



WP53M SERIES WATERPROOF RJ45 JACK & PLUG SETS:

RJ45 JACKS

P/N W P 5 3 M - 8 8 F 1

(SEE PAGE P1104!)

P/N W P 5 3 M - 5 E F 2

(SEE PAGE P1105!)

P/N W P 5 3 M - 5 E F 3

(SEE PAGE P1106!)

P/N W P 5 3 M - 5 E K S

(SEE PAGE P1107!)

RJ45 PLUG COVER

P/N W P 5 3 M - C O V E R 1

(SEE PAGE P1103!)

WATERPROOF IP68 RATED METAL LOCK TYPE RJ45 CABLE SIDE COVER

MATERIALS:

Gasket: Silicone

Plug Housing: Zn Alloy 3, Nickel Plated

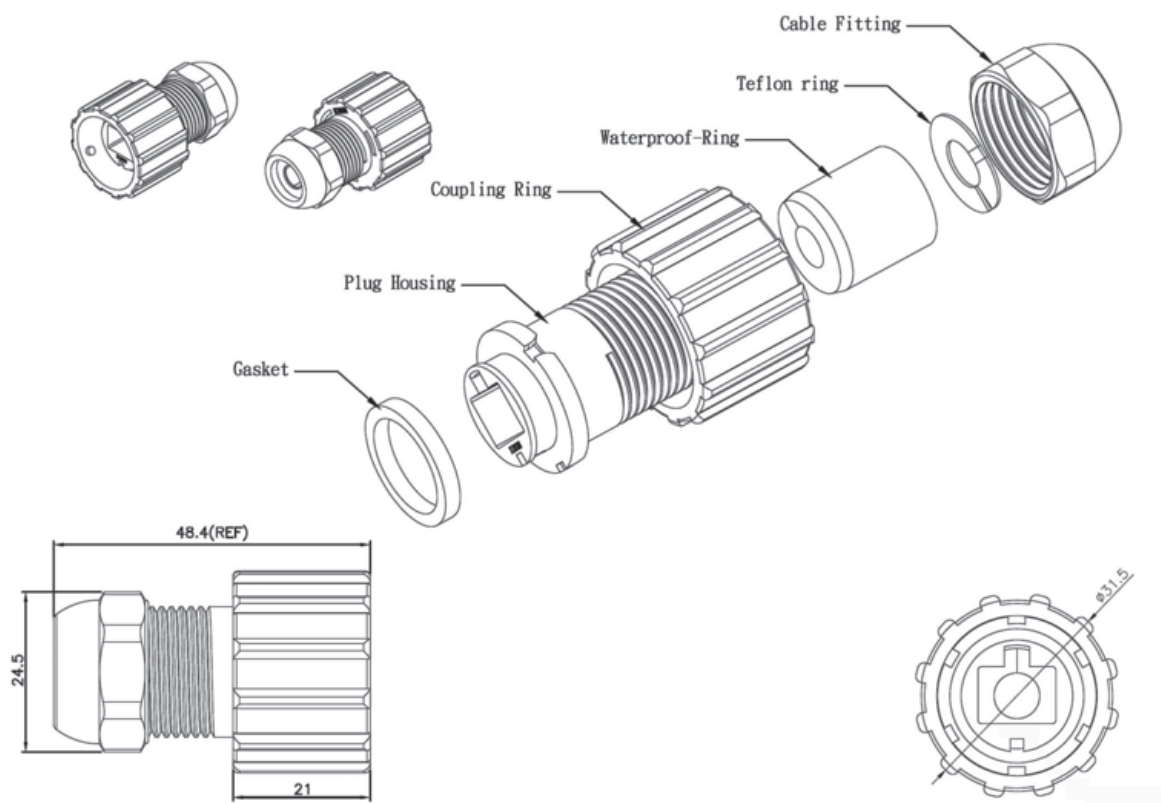
Coupling Ring: Zn Alloy 3, Nickel Plated

Waterproof-Ring: Silicone

Cable Fitting: Copper Alloy, Nickel Plated

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP53M-COVER1

WATERPROOF IP68 RATED METAL
LOCK TYPE RJ45 CABLE SIDE COVER
FOR ETHERNET CABLE DIAMETER
RANGE $\Phi 7 \sim \Phi 5.5 \text{MM}$

NOTE: CABLE ASSEMBLY INSTRUCTION SEE PAGE P1102!

WATERPROOF IP68 RATED METAL LOCK TYPE RJ45 PCB MOUNT JACK

MATERIAL AND FINISH:

Receptacle Housing: Zn Alloy 3,Nickel Plated.

Panel Nut: Coper Alloy,Nickel Plated

Panel Gasket: Silicone

RJ45 Jack Metal Shell: Coper Alloy,Nickel Plated

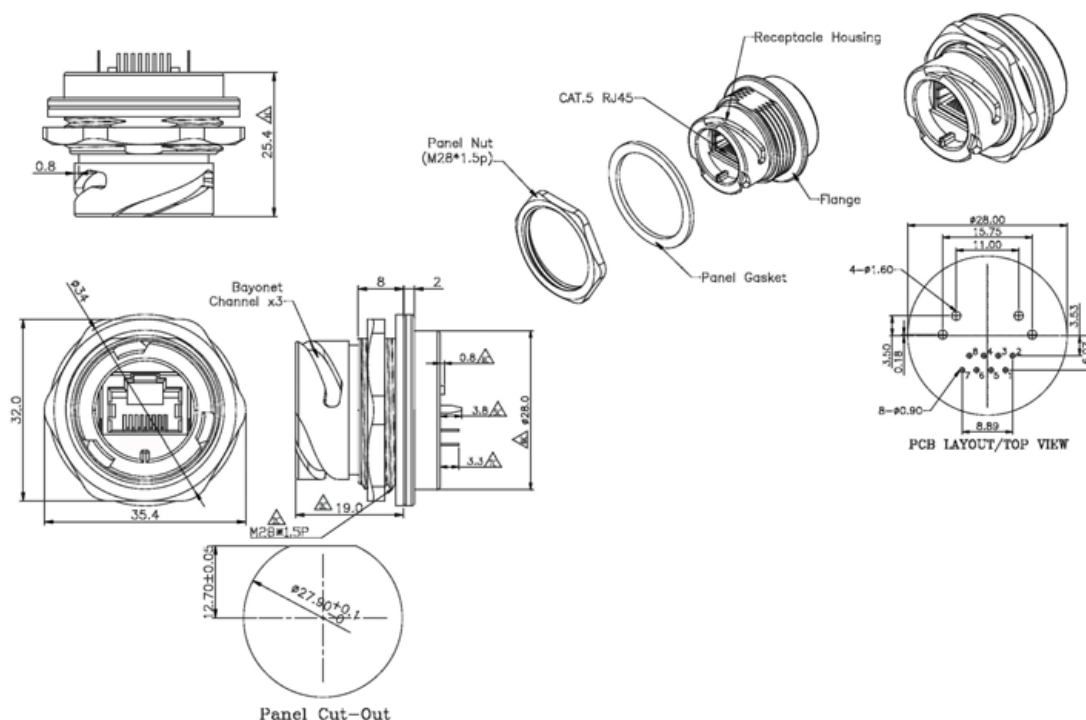
RJ45 Jack Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

RJ45 Jack Contact: Phosphor Bronze,Finish: Gold Over Nickel.

Color: Black

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP53M - 88 F 1

WATERPROOF IP68 RATED METAL LOCK TYPE RJ45 (8P8C)
PCB MOUNT JACK FOR FRONT MOUNTED TO A MAXIMUM
PANEL THICKNESS OF 3.2MM.

NOTE1: MATES WITH WATERPROOF CAP
P/N WP53M-CAP02

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1101!

WATERPROOF IP68 RATED CAT. 5e METAL LOCK TYPE RJ45 JACK WITH PCB

MATERIAL AND FINISH:

Receptacle Housing: Zn Alloy 3,Nickel Plated.

Panel Nut: Coper Alloy,Nickel Plated

Panel Gasket: Silicone

RJ45 Jack Metal Shell: Coper Alloy,Nickel Plated

RJ45 Jack Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

RJ45 Jack Contact: Phosphor Bronze,Finish: Gold Over Nickel.

Color: Black

***RoHS & REACH compliant.**

Unit: mm

ELECTRICAL SPECIFICATIONS:

Meet EIA / TIA-568-B.2 Cat.5e Specification

Contact Resistance: 20 mOhm max.

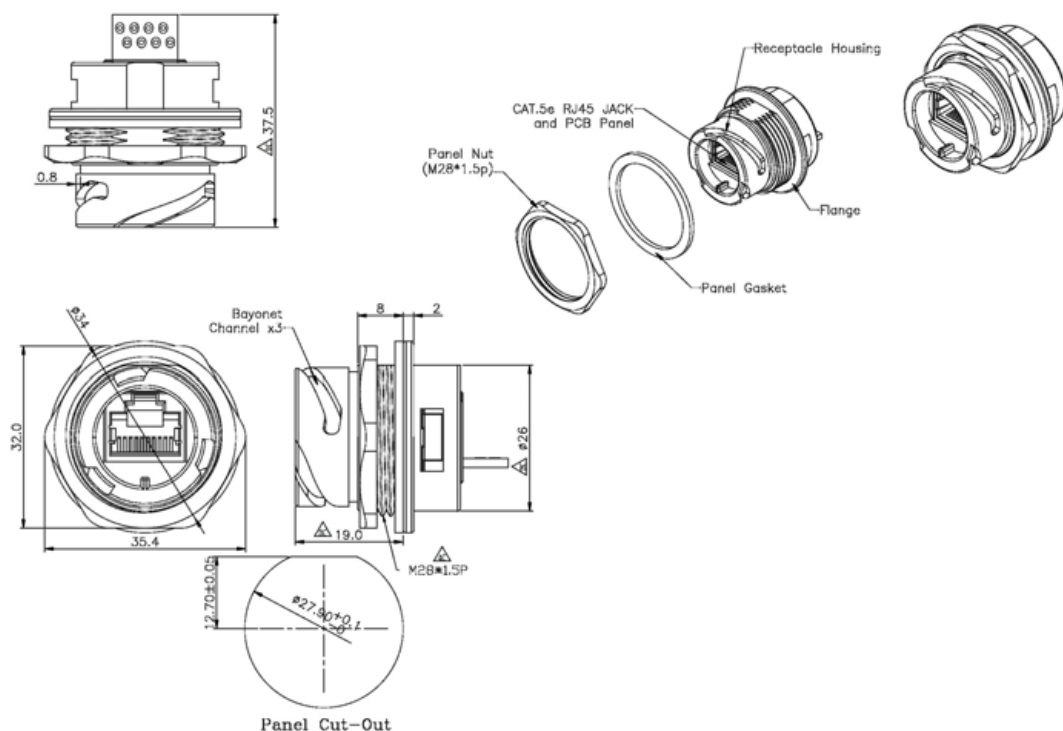
Insulation Resistance: 500 MOhm min @100V DC.

Current Rating: 1.5A max.

Voltage Rating: 100VDC

Dvv: 1000V DC/60s min Contact to Contact, 1500V DC/60s
Contact to Metal Shell.

Operating Temperature: 0°C To + 70°C



ORDERING INFORMATION:

P/N WP53M - 5EF2

WATERPROOF IP68 RATED CAT. 5e METAL LOCK TYPE
RJ45 (8P8C) JACK WITH PCB FOR FRONT MOUNTED TO
A MAXIMUM PANEL THICKNESS OF 3.2MM.

NOTE1: MATES WITH WATERPROOF CAP
P/N WP53M-CAP02

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1101!

WATERPROOF IP68 RATED CAT. 5e METAL LOCK TYPE RJ45 INLINE COUPLER JACK

MATERIAL AND FINISH:

Receptacle Housing: Zn Alloy 3,Nickel Plated

Panel Nut: Coper Alloy,Nickel Plated

Panel Gasket: Silicone

RJ45 Jack Metal Shell: Coper Alloy,Nickel Plated

RJ45 Jack Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0

RJ45 Jack Contact: Phosphor Bronze,Finish: Gold Over Nickel

Color: Black

***RoHS & REACH compliant.**

Unit: mm

ELECTRICAL SPECIFICATIONS:

Meet EIA / TIA-568-B.2 Cat. 5e Specification

Contact Resistance: 20 mOhm max.

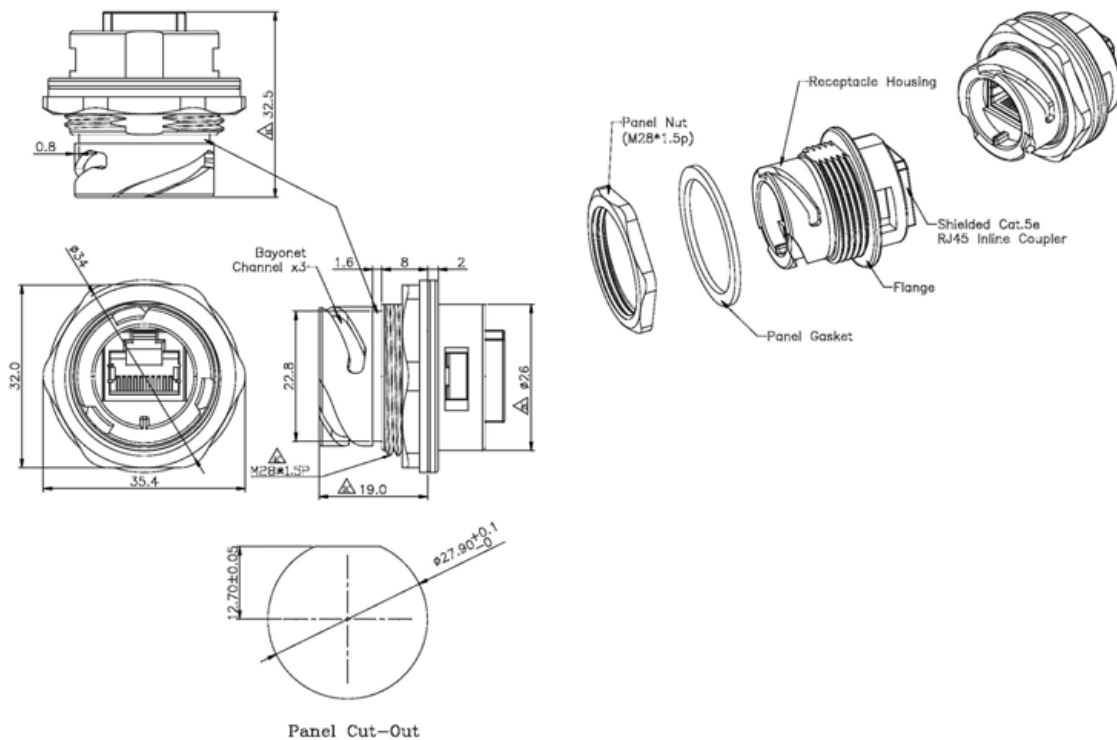
Insulation Resistance: 500 MOhm min @100V DC.

Current Rating: 1.5A max.

Voltage Rating: 100VDC

Dwv: 1000V DC/60s min Contact to Contact, 1500V DC/60s
Contact to Metal Shell.

Operating Temperature: 0°C To + 70°C



ORDERING INFORMATION:

P/N WP53M - 5EFF

WATERPROOF IP68 RATED CAT. 5e METAL LOCK TYPE
RJ45 (8P8C) INLINE COUPLER JACK FOR FRONT MOUNTED
TO A MAXIMUM PANEL THICKNESS OF 3.2MM.

NOTE1: MATES WITH WATERPROOF CAP
P/N WP53M-CAP02

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1101!

WATERPROOF IP68 RATED CAT. 5e METAL LOCK TYPE RJ45 KEYSTONE JACK

MATERIAL AND FINISH:

Receptacle Housing: Zn Alloy 3,Nickel Plated.

Panel Nut: Coper Alloy,Nickel Plated

Panel Gasket: Silicone

RJ45 Jack Metal Shell: Coper Alloy,Nickel Plated

RJ45 Jack Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

RJ45 Jack Contact: Phosphor Bronze,Finish: Gold Over Nickel.

Color: Black

***RoHS & REACH compliant.**

Unit: mm

ELECTRICAL SPECIFICATIONS:

Meet EIA / TIA-568-B.2 Cat.5e Specification

Contact Resistance: 20 mOhm max.

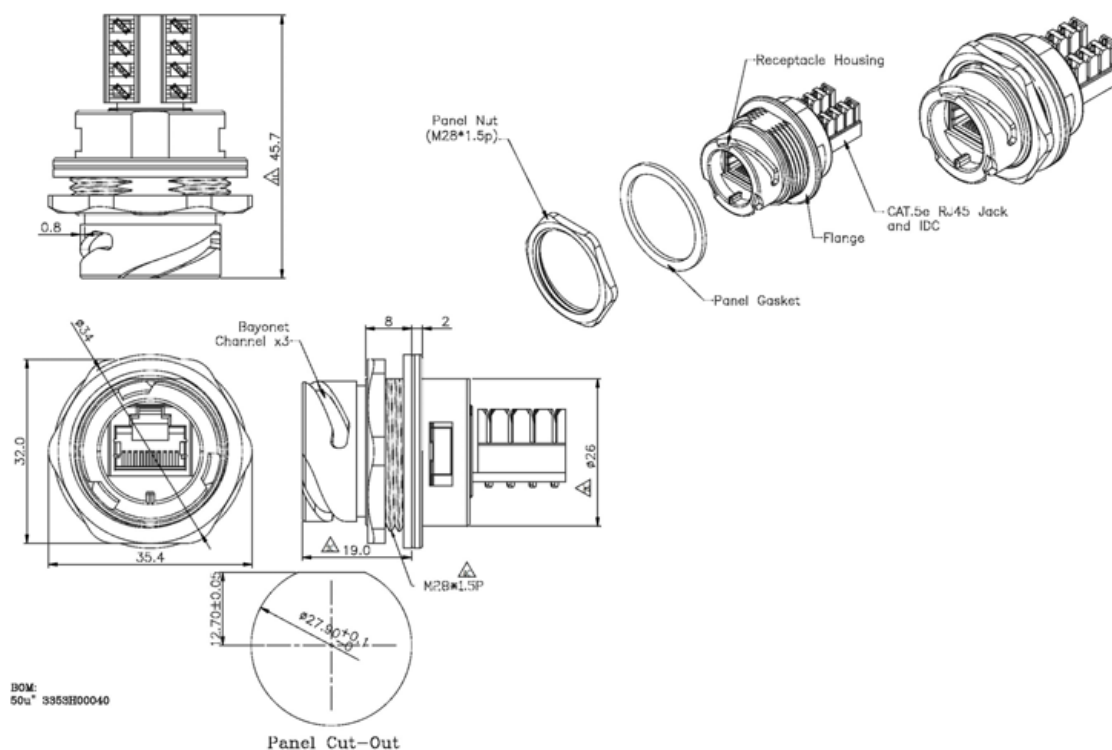
Insulation Resistance: 500 MOhm min @100V DC.

Current Rating: 1.5A max.

Voltage Rating: 100VDC

Dwv: 1000V DC/60s min Contact to Contact, 1500V DC/60s
Contact to Metal Shell.

Operating Temperature: 0°C To + 70°C



ORDERING INFORMATION:

P/N WP53M - 5 E K S

WATERPROOF IP68 RATED CAT. 5e METAL LOCK
TYPE RJ45 (8P8C) KEYSTONE JACK FOR FRONT
MOUNTED TO A MAXIMUM PANEL THICKNESS
OF 3.2MM

NOTE1: MATES WITH WATERPROOF CAP

P/N WP53M-CAP02

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1101!

WATERPROOF IP68 RATED CAP WITH CHAIN FOR METAL LOCK TYPE RJ45 JACK

MATERIALS:

Connecting Ring: Stainless Steel

Screw: Stainless Steel

Chain Buckle: Stainless Steel

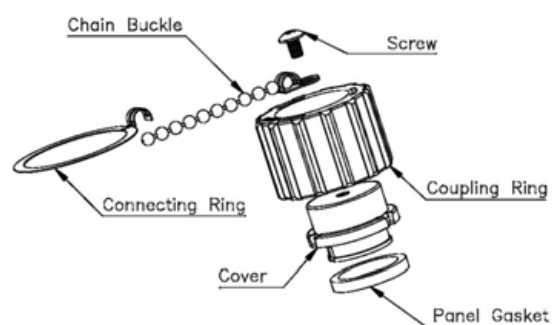
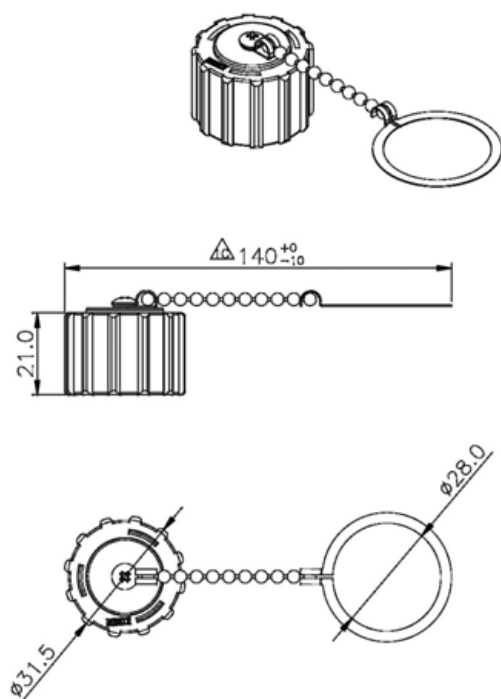
Panel Gasket: Silicon

Coupling Ring: Zn Alloy 3, Nickel Plated

Cover: Zn Alloy 3, Nickel Plated

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

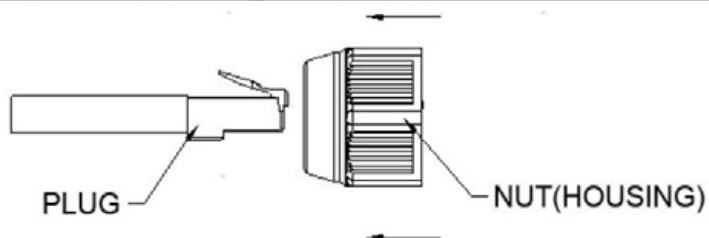
P/N WP53M - CAP02

WATERPROOF IP68 RATED METAL CAP
WITH CHAIN FOR METAL LOCK TYPE
RJ45 (8P8C) JACK

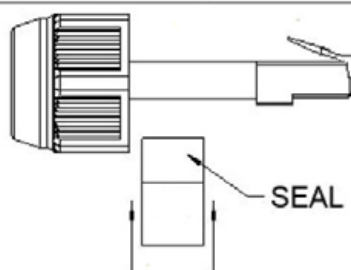
NOTE: MATES WITH WATERPROOF RJ45 JACK P/N WP53M-88F1, WP53M-5EF2,
WP53M-5EFF & WP53M-5EKS.

ASSEMBLY INSTRUCTION FOR WP52 SERIES WATERPROOF RJ45 PLUG

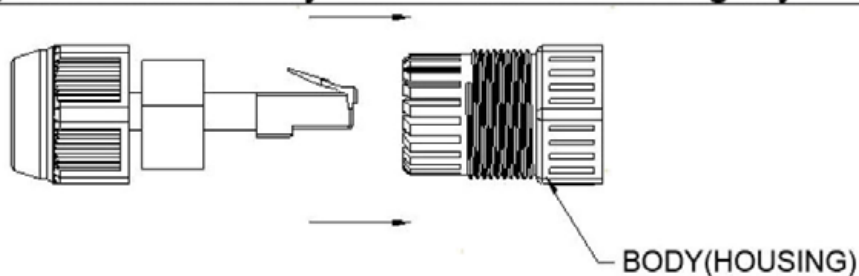
1. Insert assembled RJ45 plug into nut.



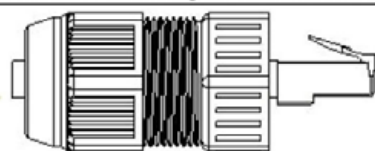
2. Put seal with opening on the assembled cable.



3. Insert plug & seal into body and screw the nut tightly.



4. It shows the already assembled cable cover.



WP52 SERIES WATERPROOF RJ45 PLUG COVERS:

P/N WP52-COVER1

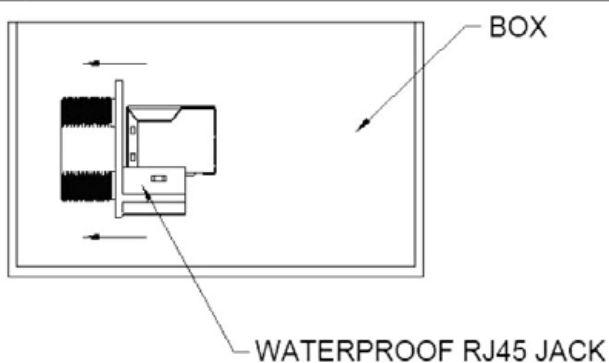
(SEE PAGE P1204!)

P/N WP52-COVER2

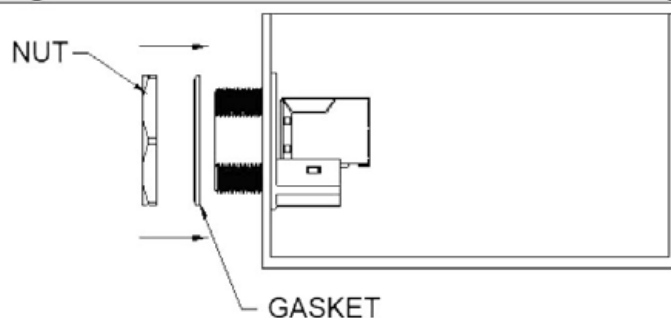
(SEE PAGE P1205!)

ASSEMBLY INSTRUCTION FOR WP52 SERIES WATERPROOF RJ45 JACK

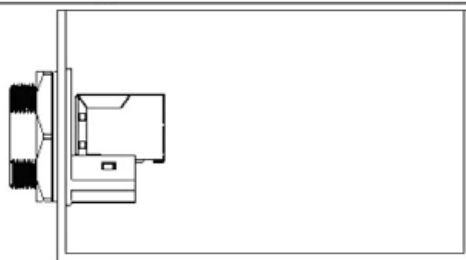
1. Insert waterproof jack from box inside into the hole.



2. Put gasket and screw the nut on RJ45 jack tightly.



3. It shows the already assembled RJ45 jack.



WP52 SERIES WATERPROOF RJ45 JACKS:

P/N WP52-88F1

(SEE PAGE P1206!)

P/N WP52-88F2

(SEE PAGE P1207!)

P/N WP52-88F3

(SEE PAGE P1208!)

P/N WP52-88F4

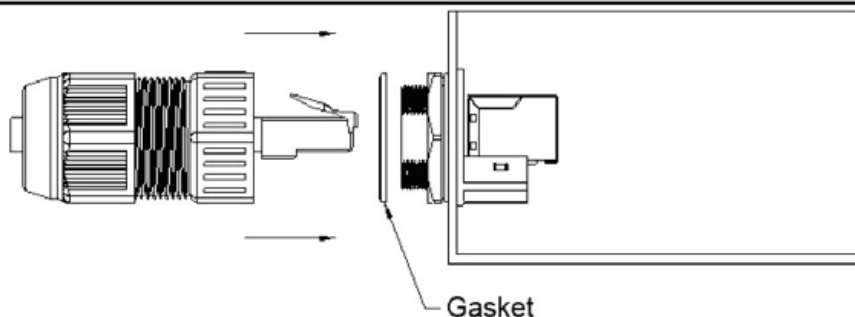
(SEE PAGE P1209!)

P/N WP52-5EKS

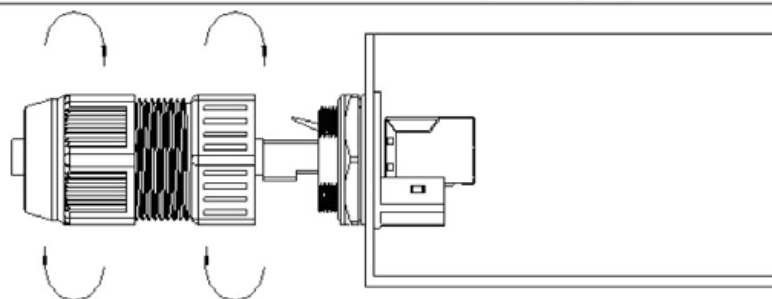
(SEE PAGE P1210!)

ASSEMBLY INSTRUCTION FOR WP52 SERIES WATERPROOF RJ45 JACK & PLUG SET

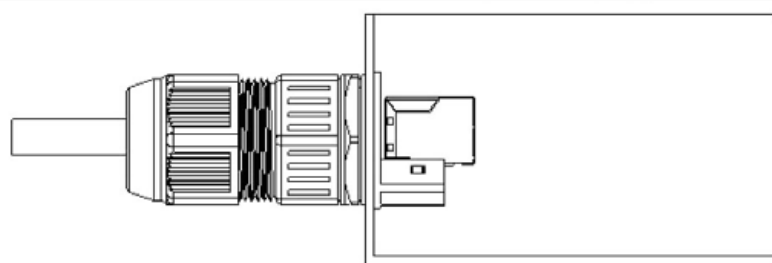
1. Put gasket on the RJ45 jack and insert plug into waterproof box.



2. Screw the cable side cover into RJ45 jack tightly.



3. It shows the already assembled RJ45 jack & plug set.



WP52 SERIES WATERPROOF RJ45 JACK & PLUG SETS:

RJ45 JACKS

P/N W P 5 2 - 8 8 F 1

(SEE PAGE P1206!)

P/N W P 5 2 - 8 8 F 2

(SEE PAGE P1207!)

P/N W P 5 2 - 8 8 F 3

(SEE PAGE P1208!)

P/N W P 5 2 - 8 8 F 4

(SEE PAGE P1209!)

P/N W P 5 2 - 5 E K S

(SEE PAGE P1210!)

RJ45 PLUG COVERS

P/N W P 5 2 - C O V E R 1

(SEE PAGE P1204!)

P/N W P 5 2 - C O V E R 2

(SEE PAGE P1205!)

WATERPROOF IP68 RATED PLASTIC SCREW TYPE RJ45 CABLE SIDE COVER LENGTH= 51.1MM

MATERIALS:

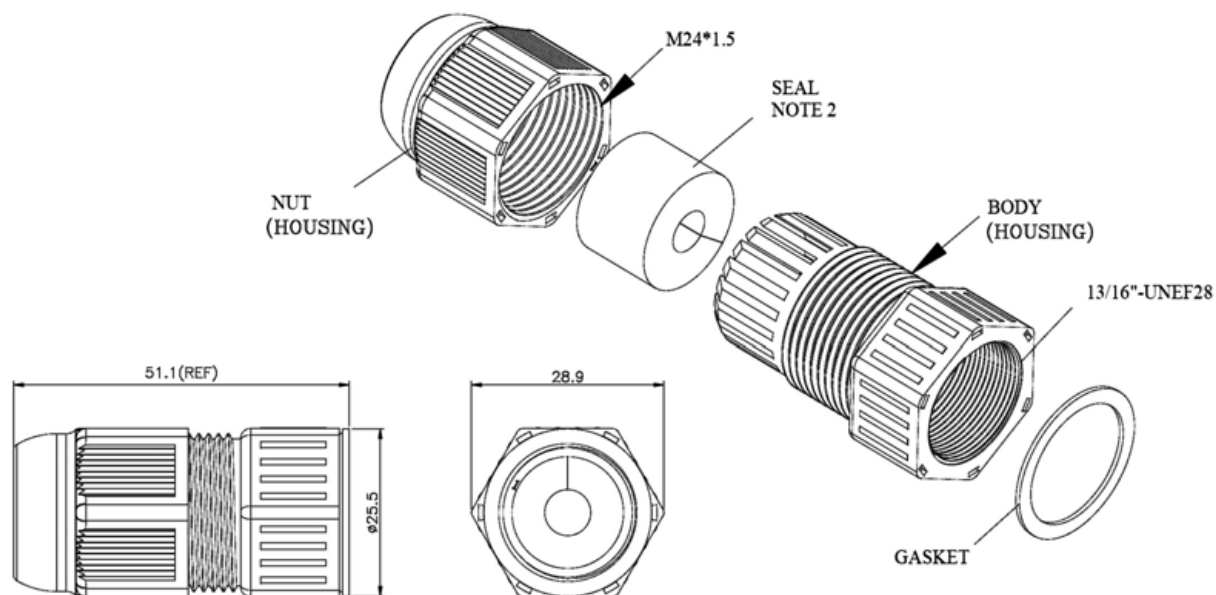
Housing: Engineering Thermoplastic
UL94V-0, Color:Black.

Seal: Silicon, Color:Red.

Gasket: Silicon, Color:Red.

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52 - COVER 1

WATERPROOF IP68 RATED PLASTIC
SCREW TYPE RJ45 CABLE SIDE COVER
FOR ETHERNET CABLE DIAMETER
RANGE $\Phi 7 \sim \Phi 5.5 \text{MM}$

NOTE: CABLE ASSEMBLY INSTRUCTION SEE PAGE P1201 & P1203!

WATERPROOF IP68 RATED PLASTIC SCREW TYPE RJ45 CABLE SIDE COVER LENGTH= 49.6MM

MATERIALS:

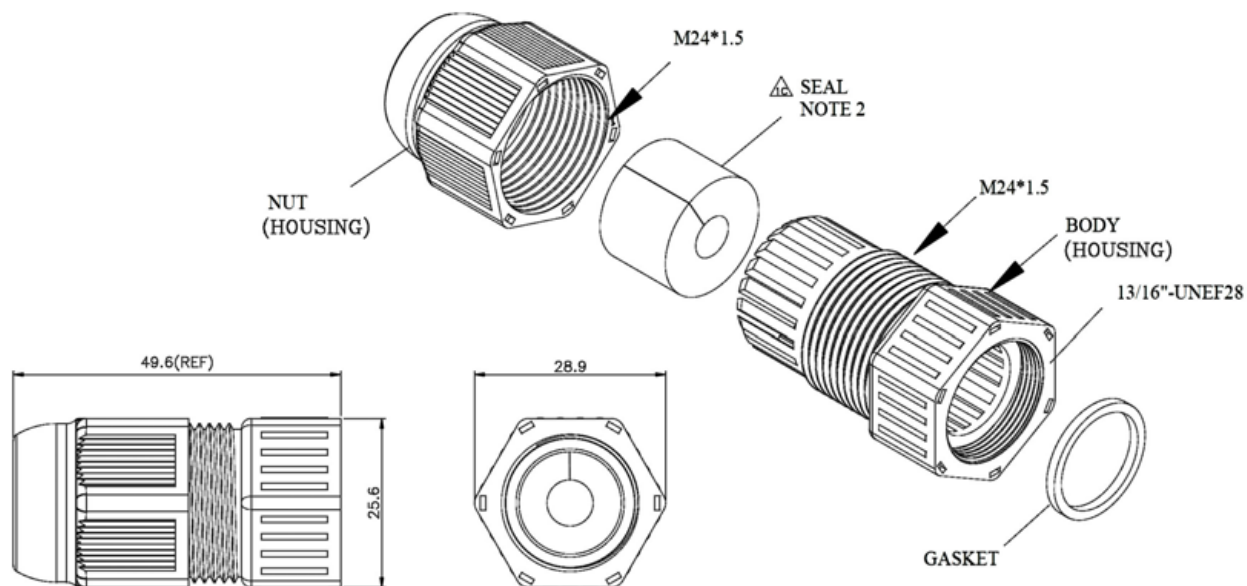
Housing: Engineering Thermoplastic
UL94V-0, Color:Black.

Seal: Silicon, Color:Red.

Gasket: Silicon, Color:Red.

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52-COVER2

WATERPROOF IP68 RATED PLASTIC
SCREW TYPE RJ45 CABLE SIDE COVER
FOR ETHERNET CABLE DIAMETER
RANGE $\Phi 7 \sim \Phi 5.5 \text{MM}$

NOTE: CABLE ASSEMBLY INSTRUCTION SEE PAGE P1201 & P1203!

WATERPROOF IP68 RATED PLASTIC SCREW TYPE PANEL MOUNT RJ45 JACK

MATERIALS:

Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

Contacts: Phosphor Bronze.

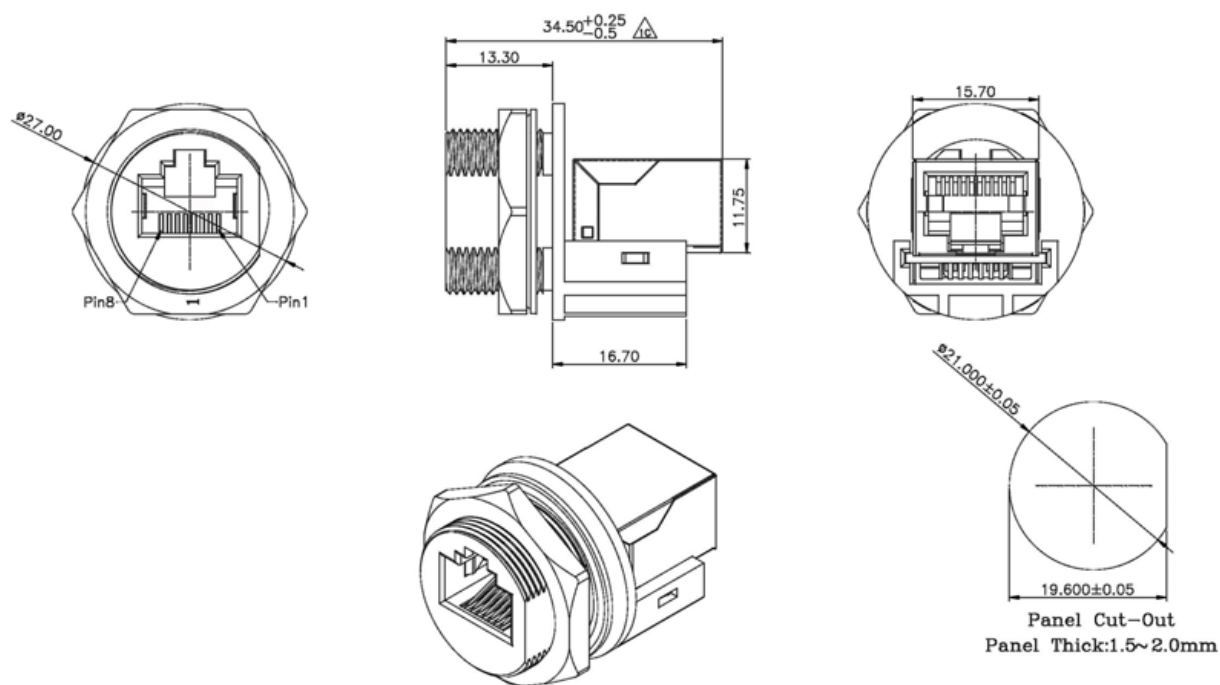
Plating: Gold Plating Over Nickel In Contact.

Nut: Engineering Thermoplastic Flammability Rating UL94V-0.

Gasket: Silicon

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52-88F1

WATERPROOF IP68 RATED PLASTIC SCREW TYPE PANEL
MOUNT RJ45 (8P8C) JACK FOR PANEL THICKNESS 1.5~2.0MM

**NOTE1: MATES WITH WATERPROOF CAP P/N WP52-CAP02, WP52-CAP03,
WP52-CAP04 & WP52-CAP05**

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1202 & 1203!

WATERPROOF IP68 RATED PLASTIC SCREW TYPE RJ45 JACK FOR PANEL THICKNESS 1.5~6.0 MM

MATERIALS:

Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

Contacts: Phosphor Bronze.

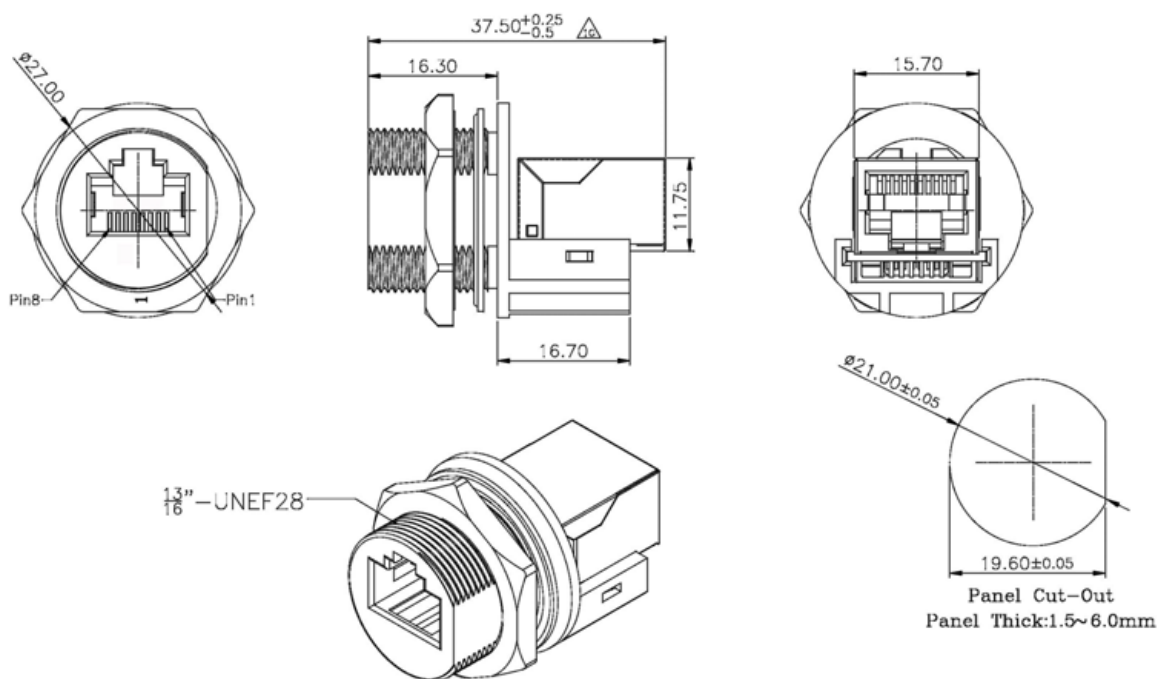
Plating: Gold Plating Over Nickel In Contact.

Nut: Engineering Thermoplastic Flammability Rating UL94V-0.

Gasket: Silicon

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52-88F2

WATERPROOF IP68 RATED PLASTIC SCREW TYPE PANEL
MOUNT RJ45 (8P8C) JACK FOR PANEL THICKNESS 1.5~6.0MM

**NOTE1: MATES WITH WATERPROOF CAP P/N WP52-CAP02, WP52-CAP03,
WP52-CAP04 & WP52-CAP05**

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1202 & 1203!

WATERPROOF IP68 RATED PLASTIC SCREW TYPE PANEL MOUNT RJ45 COUPLER JACK

MATERIALS:

Housing & Nut: Engineering Thermoplastic Flammability Rating UL94V-0. Color: Black

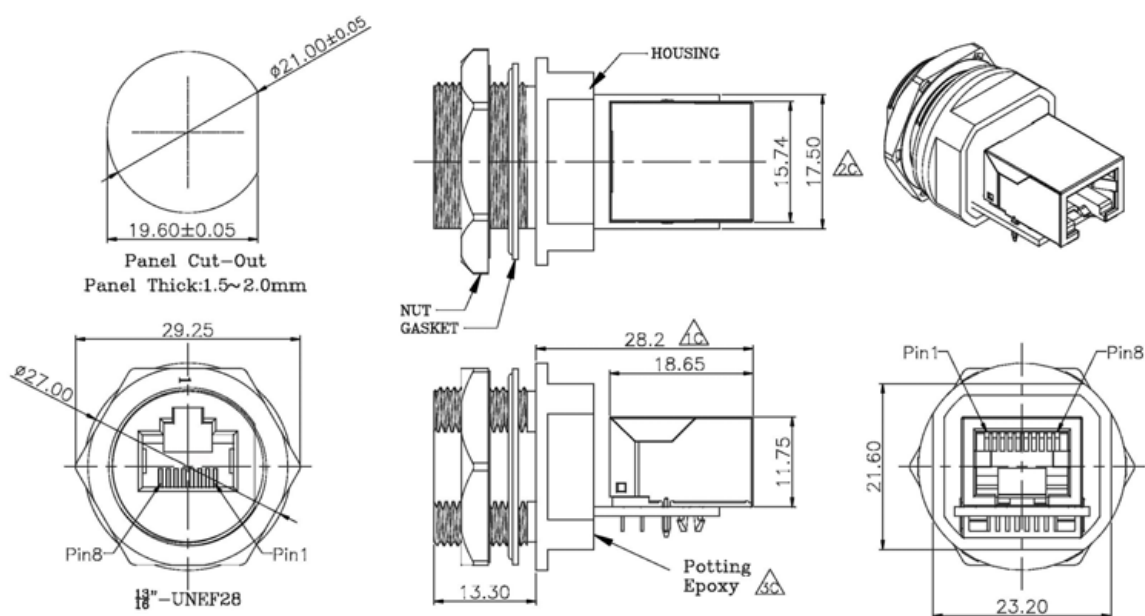
Gasket: Silicon, Color: Red

Contacts: Phosphor Bronze.

Finish: Gold Plating Over Nickel In Contact.

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52-88F3

WATERPROOF IP68 RATED PLASTIC SCREW TYPE RJ45 (8P8C)
COUPLER JACK FOR PANEL THICKNESS 1.5~2.0MM

NOTE1: MATES WITH WATERPROOF CAP P/N WP52-CAP02, WP52-CAP03,
WP52-CAP04 & WP52-CAP05

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1202 & P1203!

WATERPROOF IP68 RATED PLASTIC SCREW TYPE RJ45 JACK FOR PANEL THICKNESS 1.5~4.5MM

MATERIALS:

Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

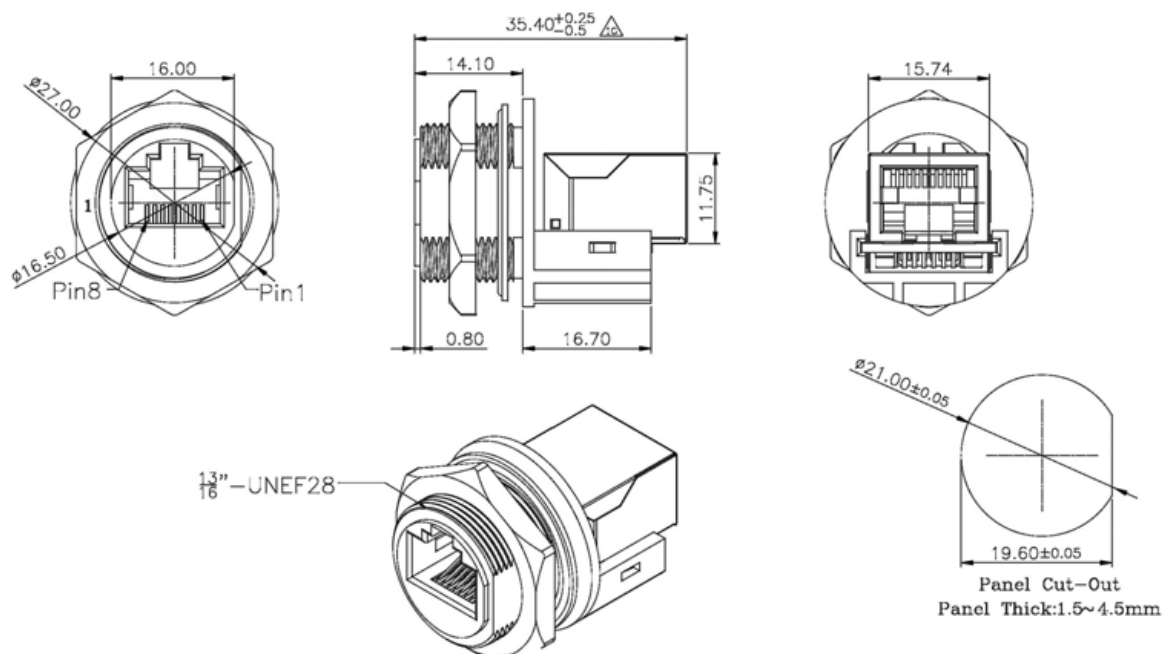
Contacts: Phosphor Bronze.

Plating: Gold Plating Over Nickel In Contact.

Nut: Engineering Thermoplastic Flammability Rating UL94V-0.

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52-88F4

WATERPROOF IP68 RATED PLASTIC SCREW TYPE PANEL
MOUNT RJ45 (8P8C) JACK FOR PANEL THICKNESS 1.5~4.5MM

**NOTE1: MATES WITH WATERPROOF CAP P/N WP52-CAP02, WP52-CAP03,
WP52-CAP04 & WP52-CAP05**

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1202 & P1203!

WATERPROOF IP68 RATED CAT. 5e PLASTIC SCREW TYPE RJ45 KEYSTONE JACK

MATERIAL:

Housing & Nut: Engineering Thermoplastic Flammability Rating UL94V-0. Color: Black

Gasket: Silicon, Color: Red

Contacts: Phosphor Bronze.

Finisf: Gold Plating Over Nickel In Contact.

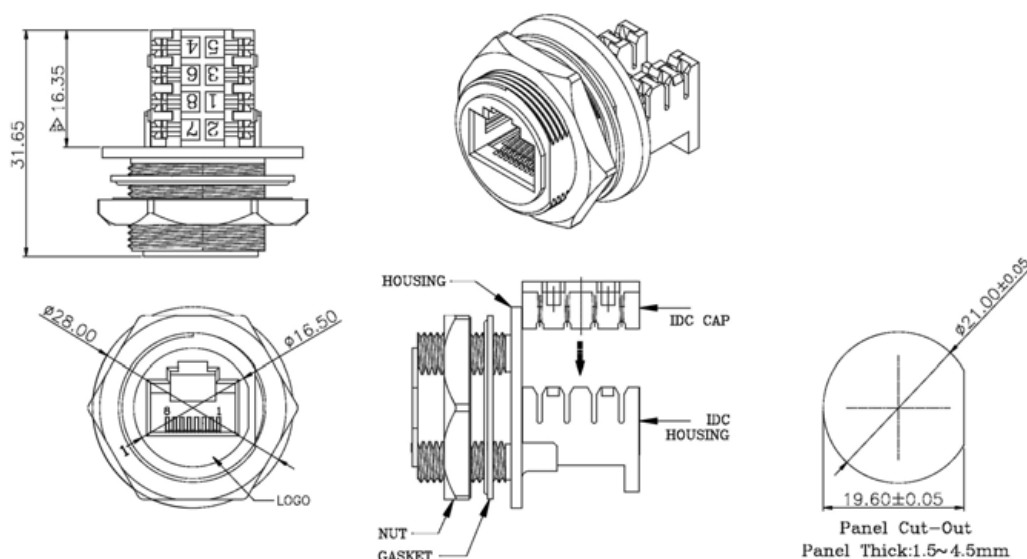
IDC Contact: Overall Tin.

Waterproof Rate: IP68, Mated With Cable Side.

Specfication: Cat. 5e

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52-5EKS

WATERPROOF IP68 RATED CAT. 5e PLASTIC SCREW
TYPE RJ45 (8P8C) KEYSTONE JACK FOR CABLE
ASSEMBLY & PANEL THICKNESS 1.5~2.0MM

NOTE1: MATES WITH WATERPROOF CAP P/N WP52-CAP02, WP52-CAP03,
WP52-CAP04 & WP52-CAP05

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1202 & P1203!

WATERPROOF IP68 RATED PLASTIC SCREW TYPE RJ45 COUPLER JACK

MATERIALS:

Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

Contacts: Phosphor Bronze.

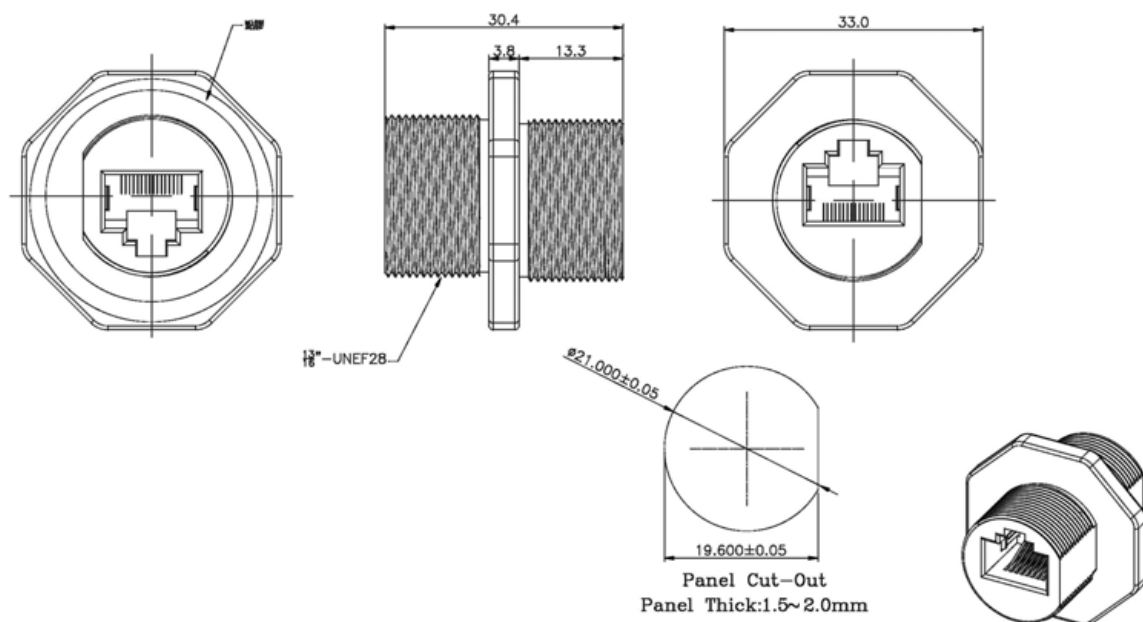
Plating: Gold Plating Over Nickel In Contact.

Ground Pader: Brass Plating Nickel Alloy.

Nut: Engineering Thermoplastic Flammability Rating UL94V-0.

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52-8F8F

WATERPROOF IP68 RATED PLASTIC SCREW TYPE
RJ45 (8P8C) FEMALE TO FEMALE COUPLER

NOTE: MATES WITH WATERPROOF CAP
P/N WP52-CAP03

WATERPROOF IP68 RATED CAT. 5e PLASTIC SCREW TYPE RJ45 COUPLER JACK

MATERIAL AND FINISH:

Plastic Housing: Engineering Thermoplastic,
Flammability Rating UL94V-0

Contacts: Phosphor Bronze

Plating: Gold Plating Over Nickel In Contact

Ground Pader: Brass Plating Nickel Alloy

Nut: Engineering Thermoplastic Flammability Rating UL94V-0

Gasket: Silicon

***RoHS & REACH compliant.**

Unit: mm

ELECTRICAL SPECIFICATIONS:

Meet EIA / TIA-568-B.2 Cat. 5e Specification

Contact Resistance: 20 mOhm max.

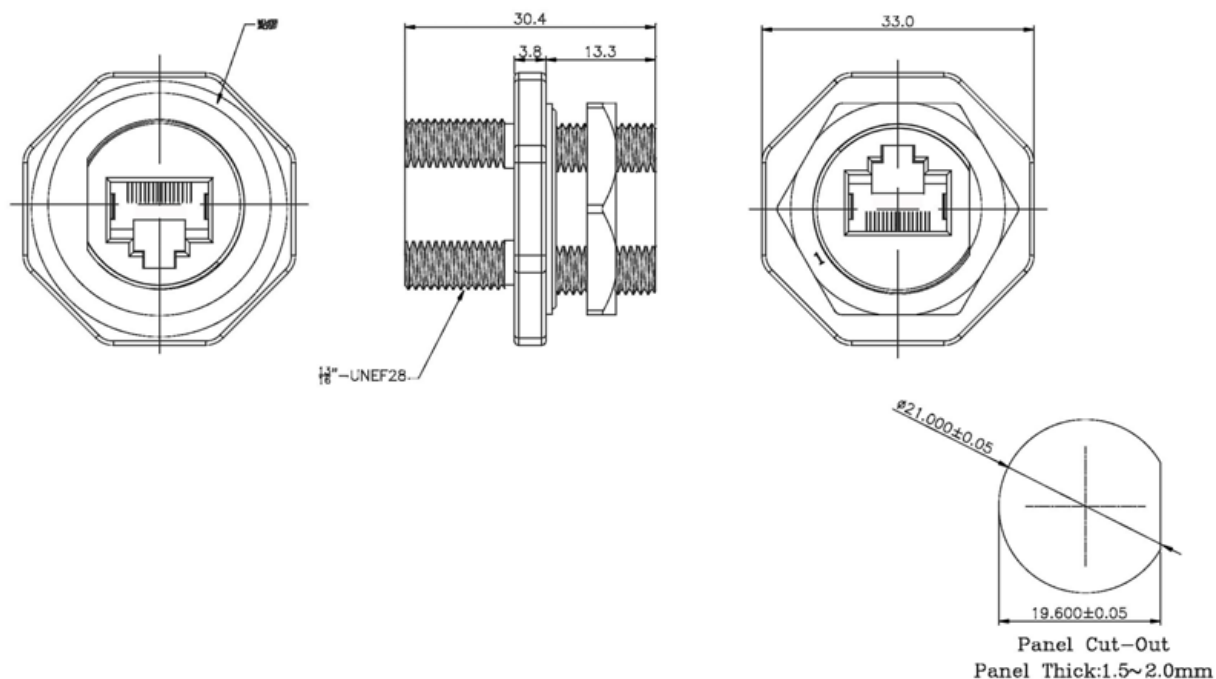
Insulation Resistance: 500 MOhm min @100V DC.

Current Rating: 1.5A max.

Voltage Rating: 100VDC

DWV: 1000V DC/60s min Contact to Contact, 1500V DC/60s
Contact to Metal Shell.

Operating Temperature: -40°C To + 85°C



ORDERING INFORMATION:

P/N WP52-5EFF

WATERPROOF IP68 RATED CAT. 5e PLASTIC
SCREW TYPE RJ45 (8P8C) FEMALE TO FEMALE
COUPLER

NOTE: MATES WITH WATERPROOF CAP
P/N WP52-CAP03

WATERPROOF IP68 RATED CAT. 6A PLASTIC SCREW TYPE RJ45 COUPLER JACK

MATERIAL:

Housing & Nut: Engineering Thermoplastic,
UL94V-0, Color: Black.

Contacts: Phosphor Bronze

Gasket: Silicon, Color: Red

Contact Finish: Gold Plating Over Nickel

***RoHS & REACH compliant.**

Unit: mm

ELECTRICAL SPECIFICATIONS:

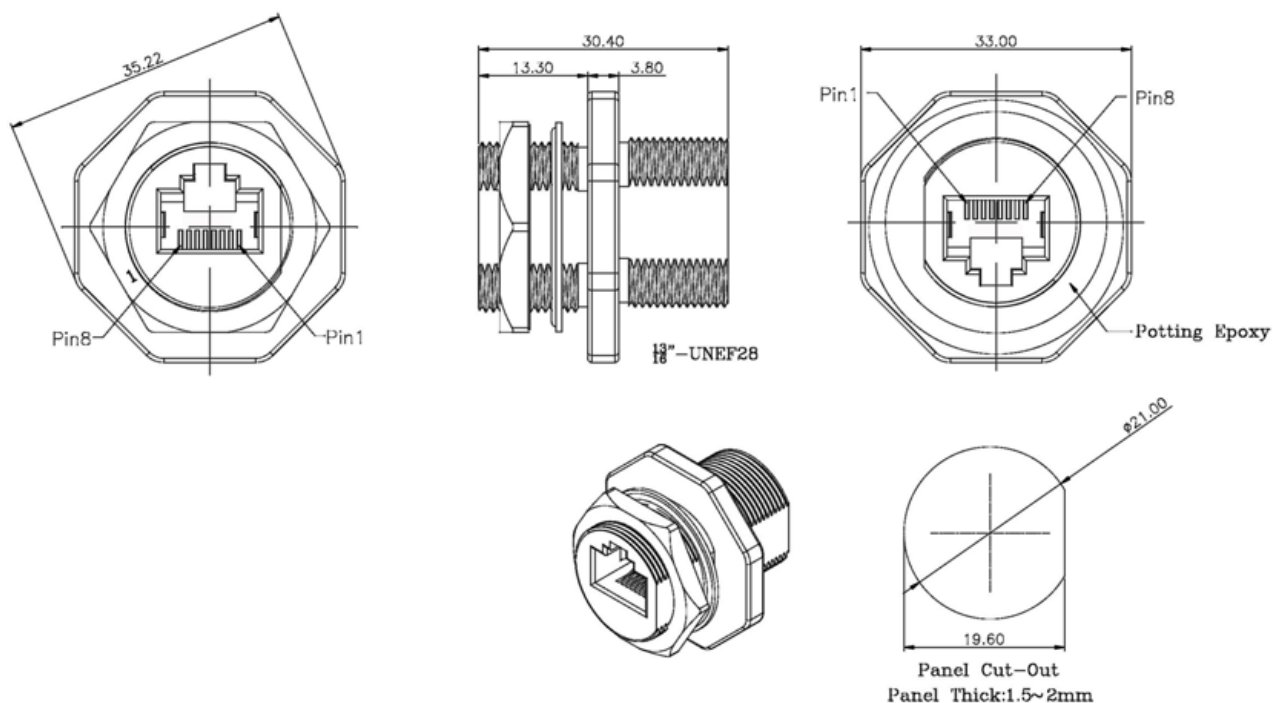
Meet EIA / TIA-568-B.2 Cat. 6A Specification

Contact Resistance: 100 mOhm max.

Insulation Resistance: 500 MOhm min @100V DC.

DWV: 1000V DC/60s min Contact to Contact

Operating Temperature: -40°C To + 80°C



ORDERING INFORMATION:

P/N WP52-6AFF

WATERPROOF IP68 RATED CAT. 6A PLASTIC
SCREW TYPE RJ45 (8P8C) FEMALE TO FEMALE
COUPLER

NOTE: MATES WITH WATERPROOF CAP
P/N WP52-CAP03

WATERPROOF IP68 RATED CAP WITH CHAIN FOR PLASTIC SCREW TYPE RJ45 JACK

MATERIALS:

Cover: Engineering Thermoplastic
UL94V-0, Color:Black.

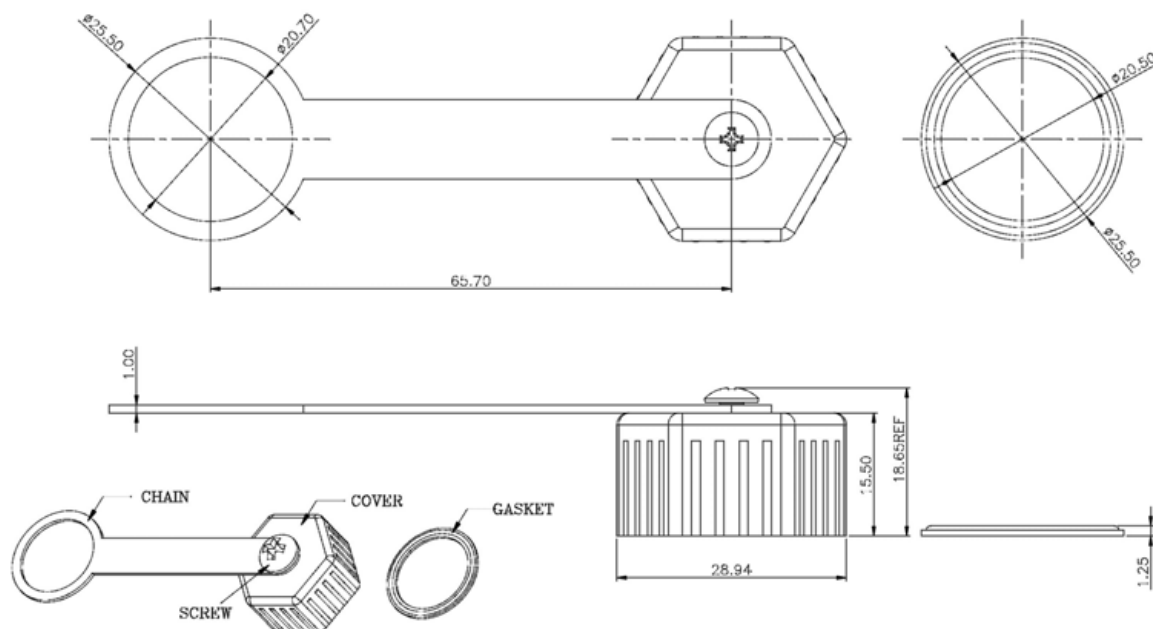
Chain: Silicon. Color: Red

Screw: Stainless

Gasket: Silicon. Color: Red

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52-CAP02

WATERPROOF IP68 RATED CAP WITH CHAIN
FOR PLASTIC SCREW TYPE RJ45 JACK

**NOTE: MATES WITH WATERPROOF RJ45 JACK P/N WP52-88F1, WP52-88F2,
WP52-88F3, WP52-88F4, WP52-5EKS**

WATERPROOF IP68 RATED CAP FOR PLASTIC SCREW TYPE RJ45 JACK

MATERIALS:

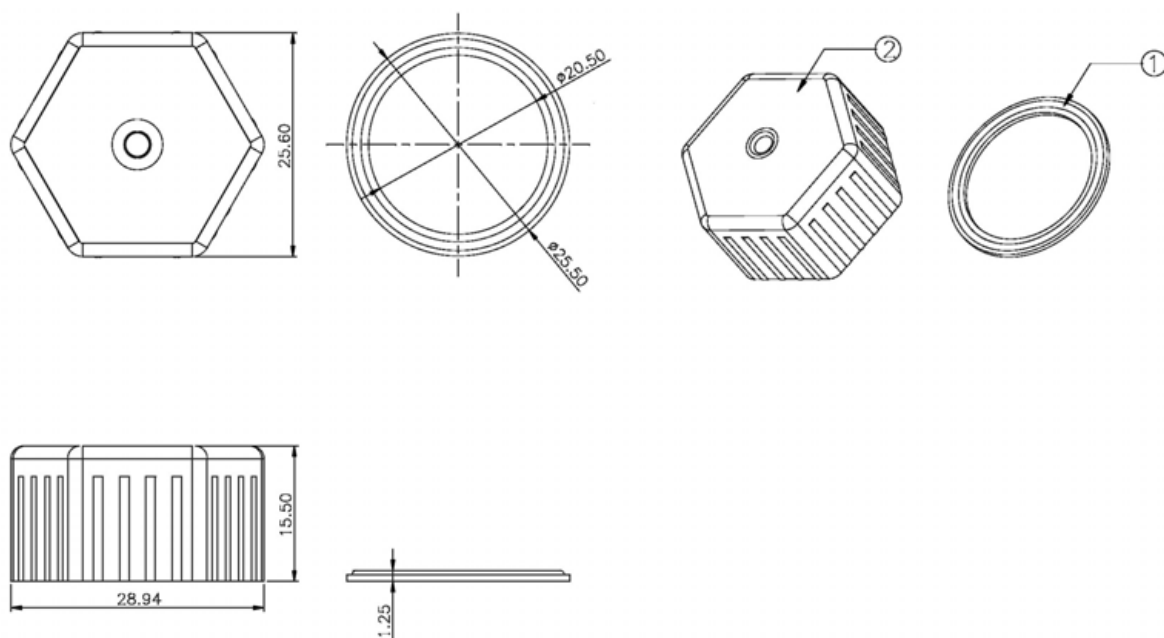
Cover: Engineering Thermoplastic
UL94V-0, Color:Black.

Gasket: Silicon. Color: Red

Waterproof Rate: IP68

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52-CAP03

WATERPROOF IP68 RATED CAP FOR PLASTIC
SCREW TYPE RJ45 (8P8C) JACK

**NOTE: MATES WITH WATERPROOF RJ45 JACK P/N WP52-88F1, WP52-88F2,
WP52-88F3, WP52-88F4, WP52-5EKS, WP52-5EFF, WP52-6AFF, WP52-8F8F**

WATERPROOF IP68 RATED CAP FOR PLASTIC SCREW TYPE RJ45 JACK

MATERIALS:

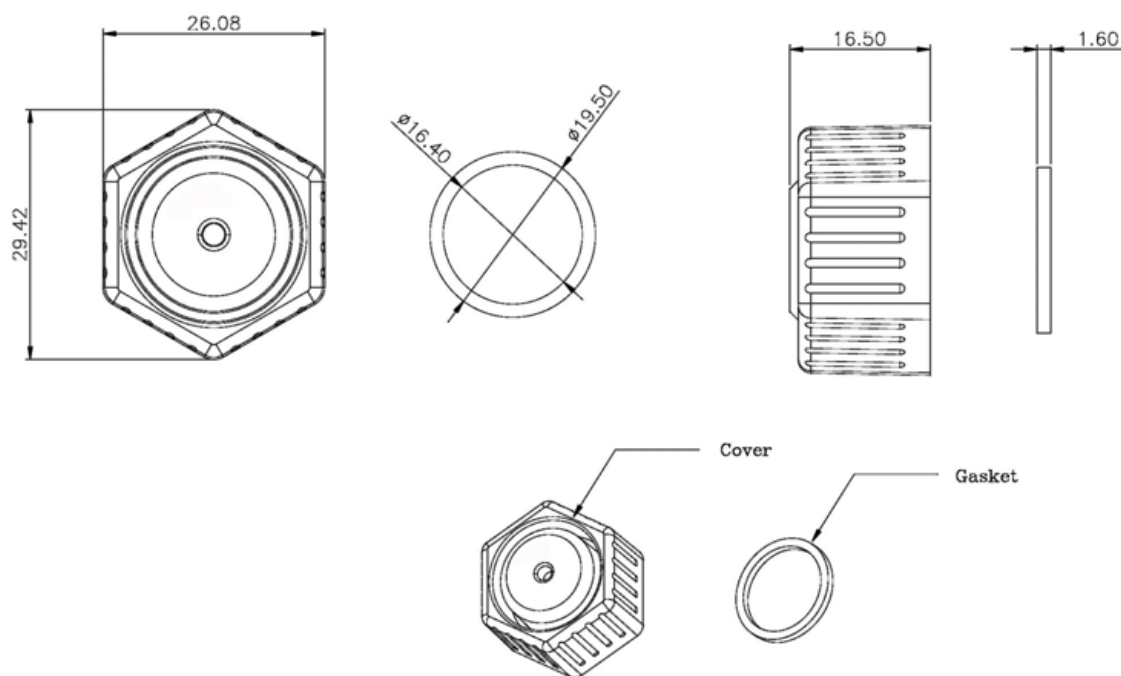
Cover: Engineering Thermoplastic
UL94V-0, Color:Black.

Gasket: Silicon

Waterproof Rate: IP68

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52-CAP04

WATERPROOF IP68 RATED CAP FOR
PLASTIC SCREW TYPE RJ45 JACK

**NOTE: MATES WITH WATERPROOF RJ45 JACK P/N WP52-88F1, WP52-88F2,
WP52-88F3, WP52-88F4 & WP52-5EKS**

WATERPROOF IP68 RATED CAP WITH CHAIN FOR PLASTIC SCREW TYPE RJ45 JACK

MATERIALS:

Cover: Engineering Thermoplastic
UL94V-0, Color: Black.

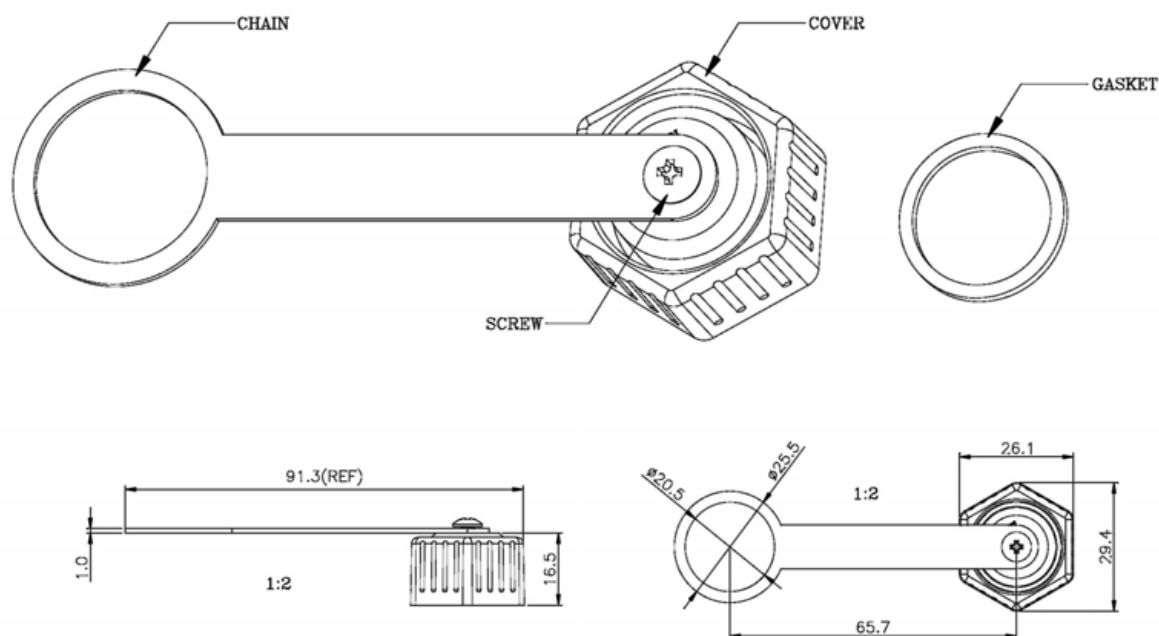
Chain: Silicon. Color: Red

Screw: Stainless

Gasket: Silicon. Color: Red

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP52-CAP05

WATERPROOF IP68 RATED CAP WITH CHAIN
FOR PLASTIC SCREW TYPE RJ45 JACK

**NOTE: MATES WITH WATERPROOF RJ45 JACK P/N WP52-88F1, WP52-88F2,
WP52-88F3, WP52-88F4, WP52-5EKS**

WATERPROOF IP68 RATED PLASTIC SCREW TYPE RJ45 CABLE SIDE COVER

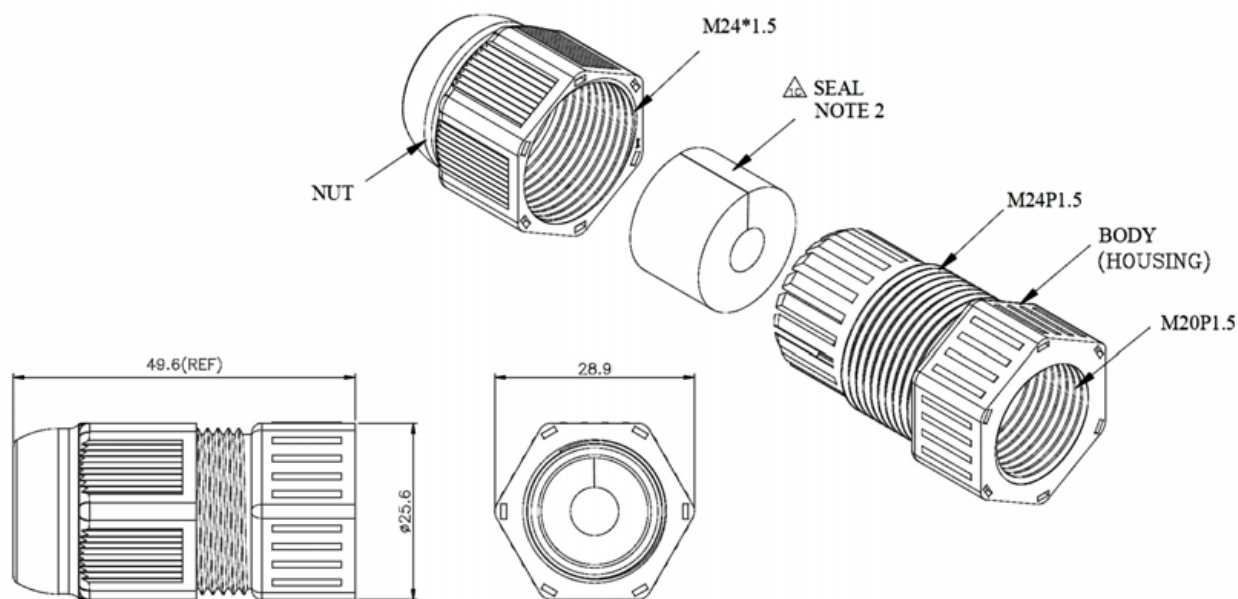
MATERIALS:

Housing: Engineering Thermoplastic
UL94V-0, Color:Black.

Seal: Silicon, Color:Red.

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP54-COVER1

WATERPROOF IP68 RATED PLASTIC
SCREW TYPE RJ45 CABLE SIDE COVER
FOR ETHERNET CABLE DIAMETER
RANGE $\varnothing 7 \sim \varnothing 5.5 \text{MM}$

WATERPROOF IP68 RATED CAT. 5e PLASTIC SCREW TYPE RJ45 COUPLER JACK

MATERIAL:

Housing & Nut: Engineering Thermoplastic,
UL94V-0, Color: Black.

Gasket: EPDN 70° Color: Black

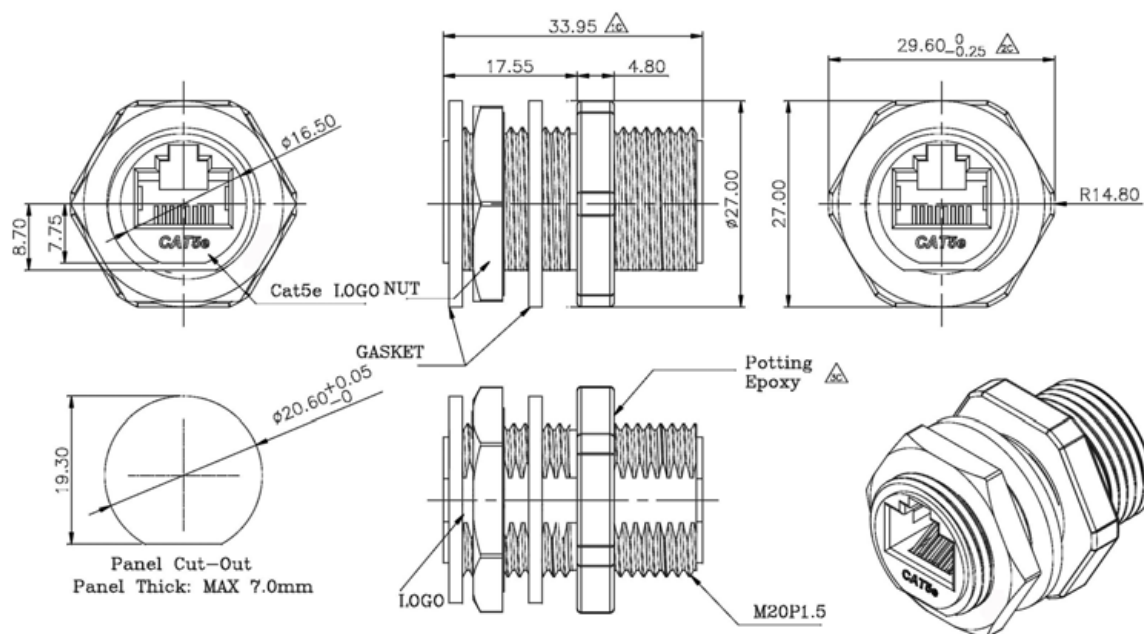
Contact: Phosphor Bronze

Contact Finish: Au 50u" Over Ni 40-60u" In Contact

Nut Torque Force Range: 12~15KG-CM

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP54-5EFF

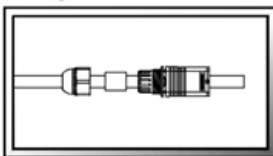
WATERPROOF IP68 RATED CAT. 5e PLASTIC
SCREW TYPE RJ45 (8P8C) FEMALE TO FEMALE
COUPLER FOR A MAXIMUM PANEL THICKNESS 7MM

ASSEMBLY INSTRUCTION FOR WP58 SERIES WATERPROOF RJ45 PLUG

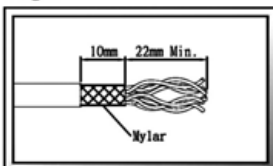
Specification:

- RJ45 TYPE
- IP Rating: IP68
- Flammability Class: UL94-V0
- ANSI/TIA/EIA-568-B.2 CAT.6A

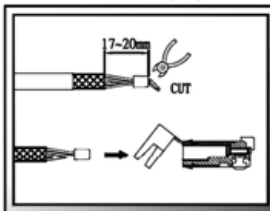
STEP: 1
Cable into nut, O-ring and housing.



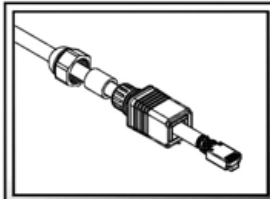
STEP: 2
Removal of the cladding in 32-mm length.



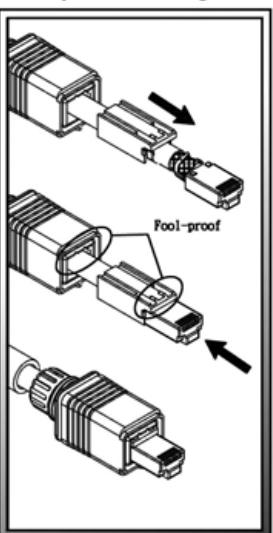
STEP: 3
Cored wire into the plug.



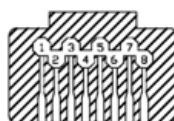
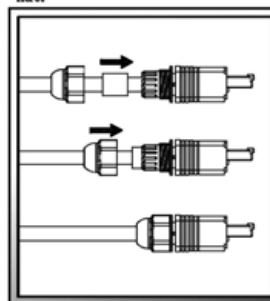
STEP: 4
Press into chips and wire with the wire tool.



STEP: 5
Assembly into the housing



STEP: 6
Insert the O-ring, and screw the nut.



Front View

WP58 SERIES WATERPROOF RJ45 PLUGS:

P/N WP58-6ACA

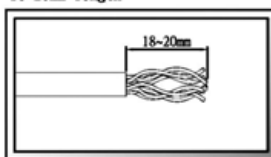
(SEE PAGE P1303!)

P/N WP58-6ACB

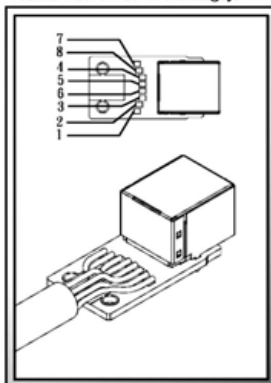
(SEE PAGE P1304!)

ASSEMBLY INSTRUCTION FOR WP58 SERIES WATERPROOF RJ45 JACK

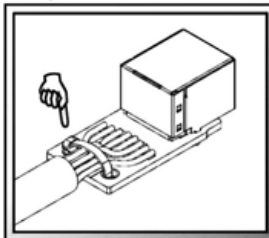
STEP: 1
Removal of the cladding to
18-20mm length



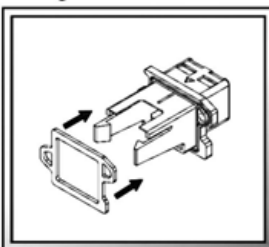
STEP: 2
Solder the cable accordingly.



STEP: 3
Cable tie through the two holes
firmly.



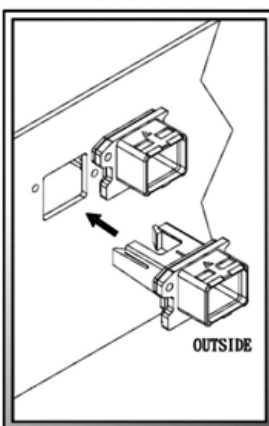
STEP: 4
The gasket onto the panel rear
housing.



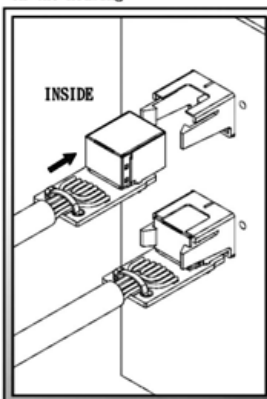
Specification:

- RJ45 TYPE
- IP Rating: IP68
- Flammability Class: UL94-V0
- ANSI/TIA/EIA-568-B.2 CAT.5e

STEP: 5
Tightening torque for panel
connector 0.3-0.5 N·m



STEP: 6
Put the RJ Jack assembly
on the housing



WP58 SERIES WATERPROOF RJ45 JACKS:

P/N WP58-01BX

(SEE PAGE P1305!)

P/N WP58-02BX

(SEE PAGE P1306!)

WATERPROOF IP68 RATED CAT. 6A PUSH-PULL TYPE RJ45 PLUG FOR $\Phi 8.0\sim 8.5\text{MM}$ CABLE

Pos.	Part Name	Material
1	Cable Inner	Polycarbonate + GF20%
2	Cable Outer	Polycarbonate + GF20%
3	Cable Nut	Polycarbonate
4	RJ45 Insert	Polycarbonate
5	RJ45 Plug(AWG22~23)	---
6	Inner O-Ring	NBR + MoS2
7	Cable O-Ring	Silicon

SPECIFICATIONS

Ultraviolet Test: Continuous 720 Hours

Mating Cycles: 750 min

Temperature Range: $-40^{\circ}\text{C}\sim 80^{\circ}\text{C}$

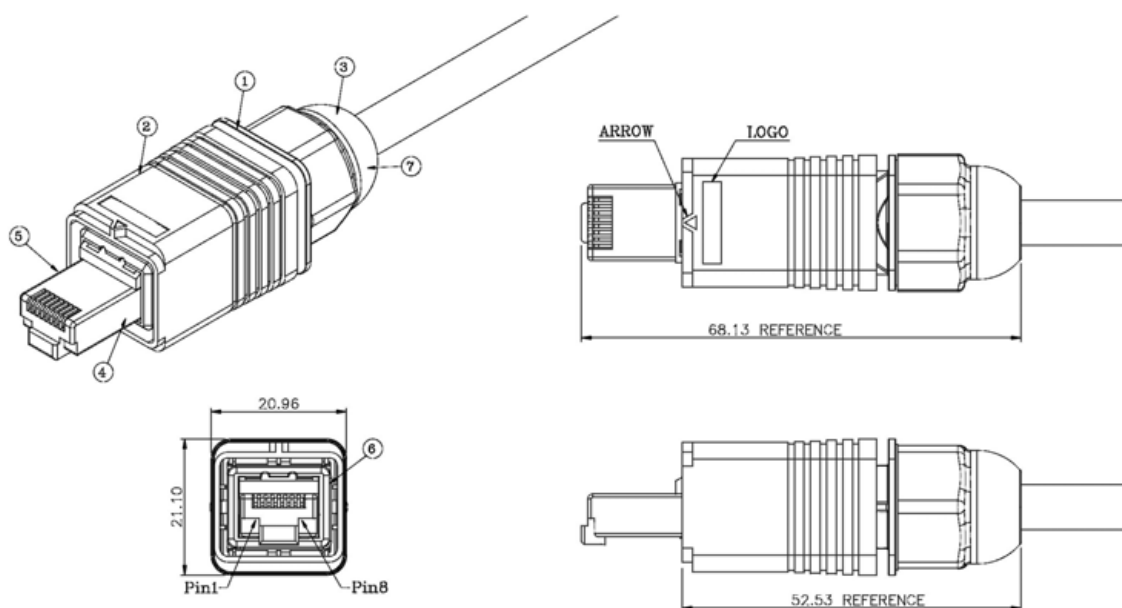
RJ45 Plug: Cat 6A (For AWG 22~23)

Waterproof Rate: IP68

Air Leak Test Spec: 1000mbar/150s/ $<10\text{mbar}$

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP58-6ACA

WATERPROOF IP68 RATED CAT. 6A PUSH-PULL TYPE
RJ45 PLUG FOR APPLICABLE ETHERNET CABLE DIAMETER
RANGE $\Phi 8.0\sim\Phi 8.5\text{MM}$

NOTE1: IF FOR $\Phi 7.0\text{MM}$ CABLE, USE P/N WP58-6ACB.

NOTE2: CABLE ASSEMBLY INSTRUCTION SEE PAGE P1301!

WATERPROOF IP68 RATED CAT. 6A PUSH-PULL TYPE RJ45 PLUG FOR Ø7.00MM CABLE

Pos.	Part Name	Material
1	Cable Inner	Polycarbonate + GF20%
2	Cable Outer	Polycarbonate + GF20%
3	Cable Nut	Polycarbonate
4	RJ45 Insert	Polycarbonate
5	RJ45 Plug	---
6	Inner O-Ring	NBR + MoS2
7	Cable O-Ring	Silicon

Loading Plan

1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

SPECIFICATIONS

Ultraviolet Test: Continuous 720 Hours

Mating Cycles: 750 min

Temperature Range: -40°C~ 80°C

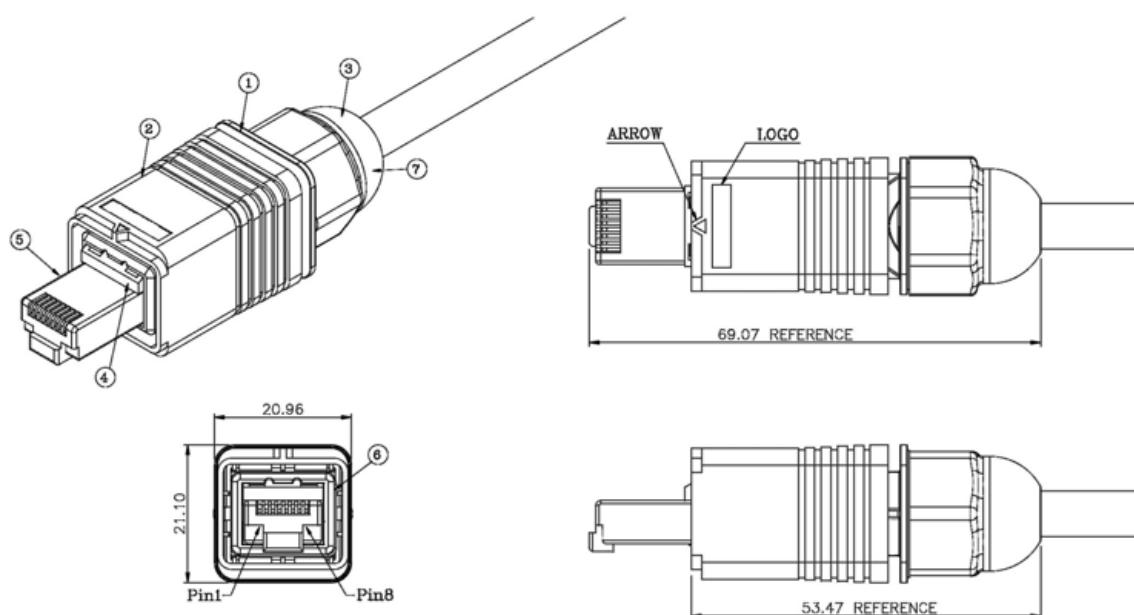
RJ45 Plug: Cat 6A

Waterproof Rate: IP68

Air Leak Test Spec: 1000mbar/150s/<10mbar

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP58-6ACB

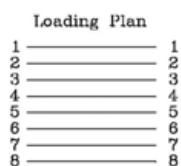
WATERPROOF IP68 RATED CAT. 6A PUSH-PULL TYPE
RJ45 PLUG FOR APPLICABLE ETHERNET CABLE DIAMETER
RANGE Ø7.00MM

NOTE1: IF FOR Ø8.0~8.5MM CABLE, USE P/N WP58-6ACA.

NOTE2: CABLE ASSEMBLY INSTRUCTION SEE PAGE P1301!

WATERPROOF IP68 RATED PUSH-PULL TYPE PANEL MOUNT SINGLE RJ45 JACK

Pos.	Part Name	Material
1	RJ45 Receptacle	Polycarbonate + GF20%
2	Gasket	Silicone
3	RJ45 Jack	---
4	PCB	---



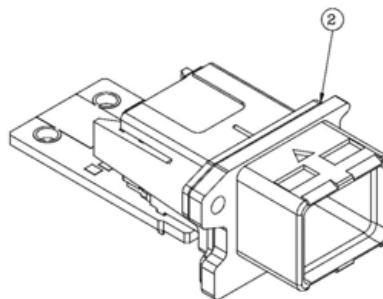
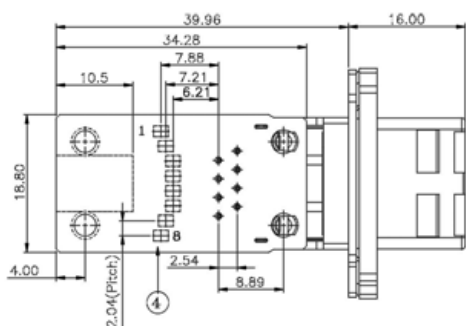
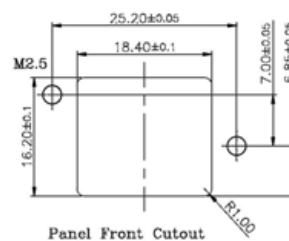
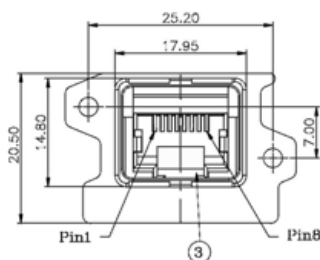
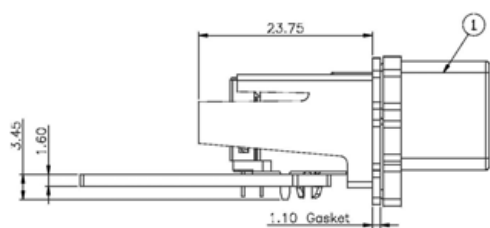
SPECIFICATIONS

Waterproof Rate: IP68

Air Leak Test Spec: 1000mbar/150s/<10mbar

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N WP58-01BX

WATERPROOF IP68 RATED PUSH-PULL TYPE
PANEL MOUNT SINGLE RJ45 JACK

NOTE1: MATES WITH WATERPROOF CAP
P/N WP58-CAP01 & P/N WP58-CAP02

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1302!

WATERPROOF IP68 RATED PUSH-PULL TYPE PANEL MOUNT DOUBLE RJ45 JACK

Pos.	Part Name	Material
1	RJ45 Receptacle	Polycarbonate + GF20%
2	RJ45 Jack	Silicone
3	RJ45 Jack	---
4	PCB	---

Loading Plan

1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

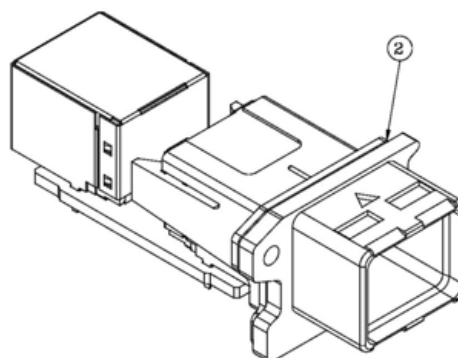
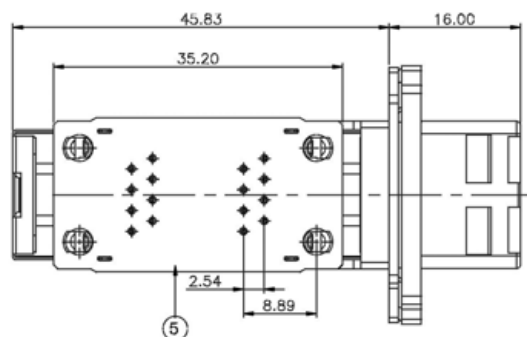
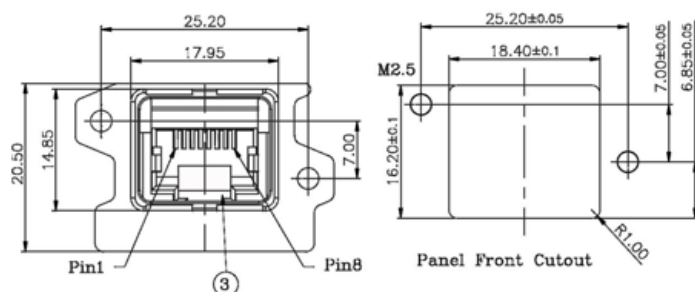
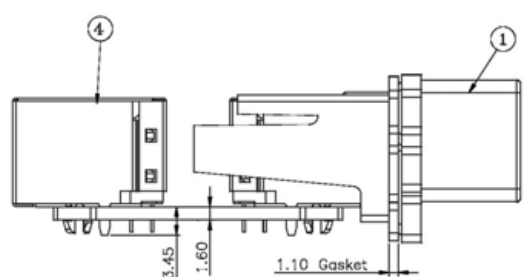
SPECIFICATIONS

Waterproof Rate: IP68

Air Leak Test Spec: 1000mbar/150s/<10mbar

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N WP58-02BX

WATERPROOF IP68 RATED PUSH-PULL TYPE
PANEL MOUNT DOUBLE RJ45 JACK

NOTE1: MATES WITH WATERPROOF CAP
P/N WP58-CAP01 & P/N WP58-CAP02

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1302!

WATERPROOF IP68 RATED CAP FOR PUSH-PULL TYPE RJ45 JACK

Pos.	Part Name	Material
1	Cap Inner	Polycarbonate + GF20%
2	Cap Outer	Polycarbonate + GF20%
3	Inner O-Ring	NBR + MoS2

SPECIFICATIONS

Mating Cycles: 750 Min

Waterproof Rate: IP68

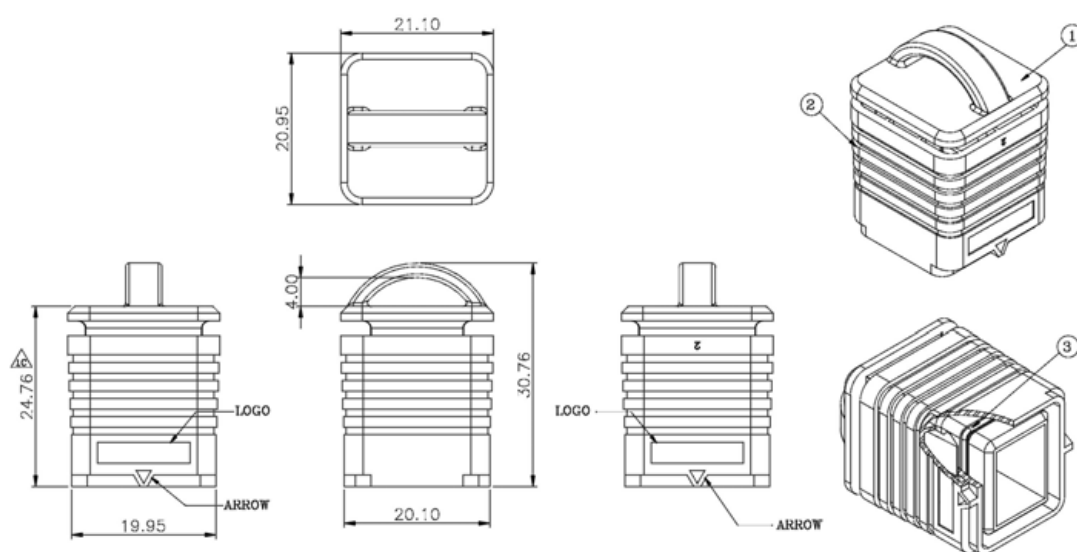
Temperature Range: -40°C~ 80°C

Ultraviolet Test: Continuous 720 Hours

Air Leak Test Spec: 1000mbar/150s/<10mbar

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP58-CAP01

WATERPROOF IP68 RATED CAP FOR PUSH-PULL TYPE
RJ45 (8P8C) JACK & OPTIC FIBER ADAPTOR

**NOTE: MATES WITH WATERPROOF RJ45 JACK P/N WP58-01BX,
WP58-02BX AND OPTIC FIBER ADAPTOR P/N WP58-LCBX,
WP58-LCBY**

WATERPROOF IP68 RATED CAP WITH CHAIN FOR PUSH-PULL TYPE RJ45 JACK

Pos.	Part Name	Material
1	Cap Inner	Polycarbonate + GF20%
2	Cap Outer	Polycarbonate + GF20%
3	Inner O-Ring	NBR + MoS2
4	Crimping Ring	SUS316
5	M2.5 Crimping Ring Tongue	SUS316
6	Nylon Cord	PA6

SPECIFICATIONS

Mating Cycles: 750 Min

Waterproof Rate: IP68

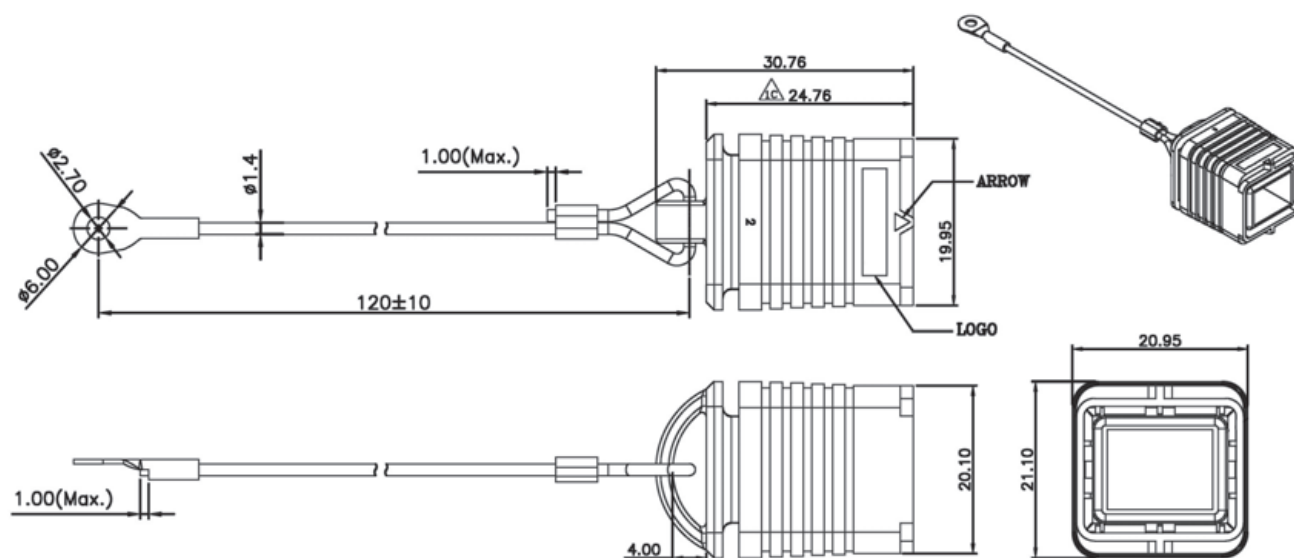
Temperature Range: -40°C~ 80°C

Ultraviolet Test: Continuous 720 Hours

Air Leak Test Spec: 1000mbar/150s/<10mbar

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

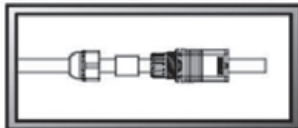
P/N WP58-CAP02

WATERPROOF IP68 RATED CAP WITH CHAIN FOR PUSH-PULL TYPE RJ45 (8P8C) JACK & OPTIC FIBER ADAPTOR

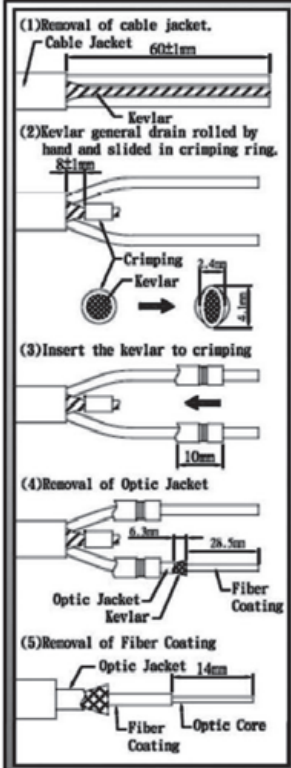
NOTE: MATES WITH WATERPROOF RJ45 JACK P/N WP58-01BX, WP58-02BX AND OPTIC FIBER ADAPTOR P/N WP58-LCBX, WP58-LCBY

ASSEMBLY INSTRUCTION FOR WP58 SERIES WATERPROOF FIBER OPTIC PLUG

STEP: 1 Cable into nut, O-ring and housing



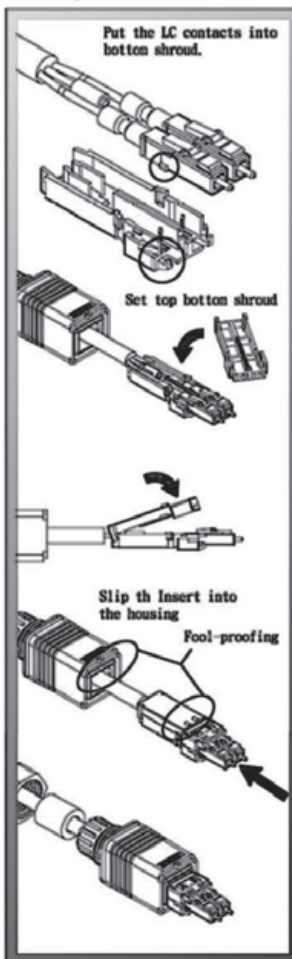
STEP: 2 Tension member crimping



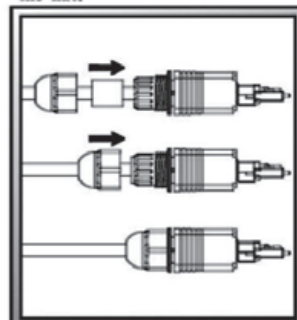
Specification:

- Fiber Optic LC 2.0mm(Simplex/Duplex) TYPE
- IP Rating: IP68
- Flammability Class: UL94-V0
- ANSI TIA/EIA-568-B.3

STEP: 3 Assembly of LC contact

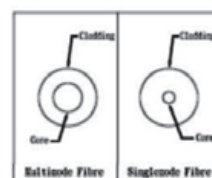


STEP: 4 Insert the O-ring and screw the nut.

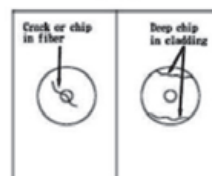


Polishing:

1. Begin with polish paper in grain size 12u. Polish the connector for 30 figure-8 strokes.
2. Repeat the process with 3u and 0.3u polish paper.
3. Check with a microscope for the ferrule endface.



Acceptable



Defective parts

WP58 SERIES WATERPROOF OPTIC FIBER PLUG:

P/N WP58-LCCA1

(SEE PAGE P1403!)

P/N WP58-LCCA2

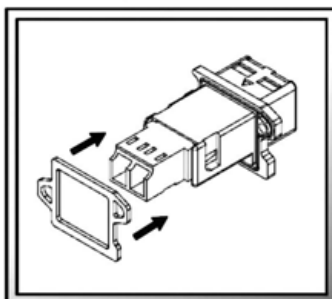
(SEE PAGE P1404!)

ASSEMBLY INSTRUCTION FOR WP58 SERIES WATERPROOF FIBER OPTIC ADAPTER

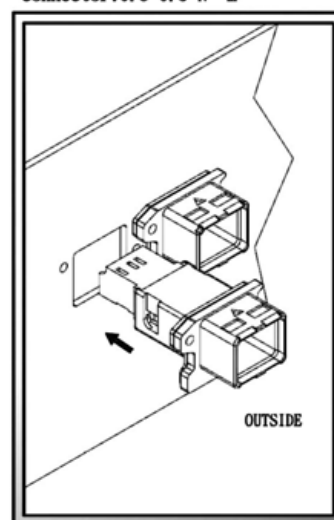
Specification:

- ◎Fiber Optic LC Adapter(Duplex) TYPE
- ◎IP Rating:IP68
- ◎Flammability Class:UL94-V0
- ◎ANSI/TIA/EIA-568-B.3

STEP: 1
Insert the gasket



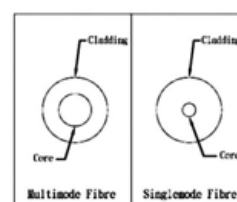
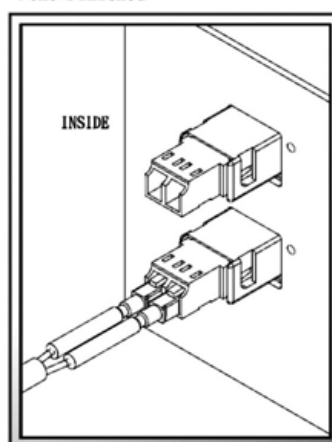
STEP: 2
Tightening torque for panel connector:0.3-0.5 N·m



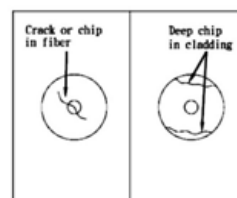
Polishing:

- 1.Begin with polish paper in grain size 12u.Polish the connector for 30 figure-8 strokes.
- 2.Repeat the process with 3u and 0.3u polish paper.
- 3.Check with a microscope for the ferrule endface.

STEP: 3
Done/Finished



Acceptable



Defective parts

WP58 SERIES WATERPROOF OPTIC FIBER ADAPTER:

P/N WP58-LCBX

(SEE PAGE P1405!)

P/N WP58-LC BY

(SEE PAGE P1406!)

WATERPROOF IP68 RATED PUSH-PULL TYPE SIMPLEX LC FIBER OPTIC CABLE CONNECTOR

Pos.	Part Name	Material
1	Cable Inner	Polycarbonate + GF20%
2	Cable Outer	Polycarbonate + GF20%
3	Cable Nut	Polycarbonate
4	Optic Insert A	Polycarbonate
5	Optic Insert B	Polycarbonate
6	Optic LC Plug	---
7	Inner O-Ring	NBR + MoS2
8	Cable O-Ring	Silicon

SPECIFICATIONS

Ultraviolet Test: Continuous 720 Hours

Mating Cycles: 750 Min

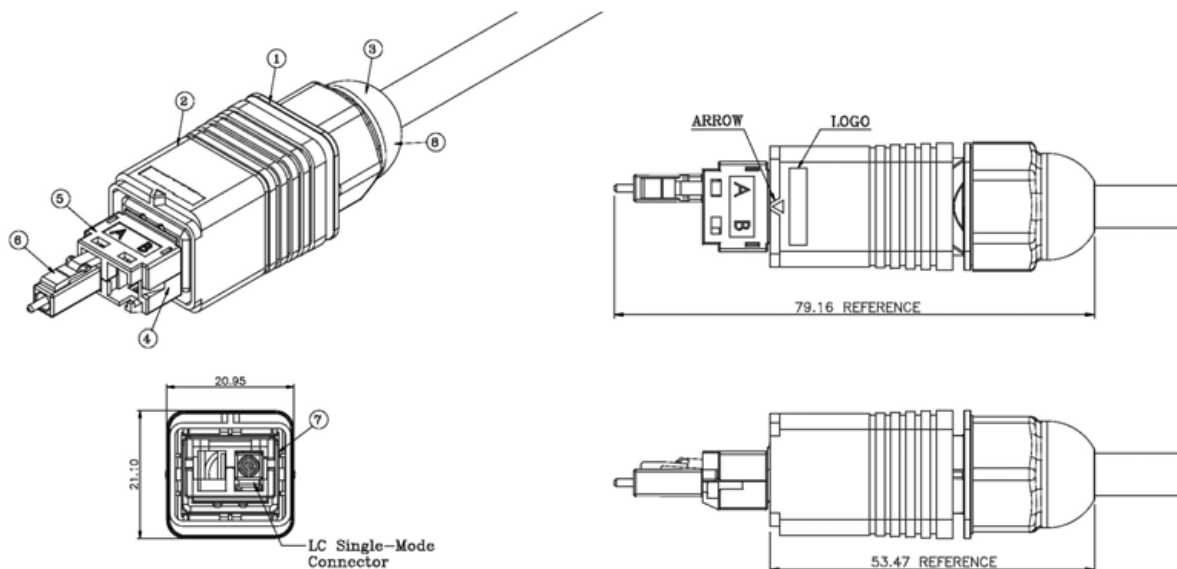
Temperature Range: -40°C~ 80°C

Waterproof Rate: IP68

Air Leak Test Spec: 1000mbar/150s/<10mbar

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP58-LCCA1

WATERPROOF IP68 RATED PUSH-PULL TYPE
SIMPLEX LC OPTIC FIBER CABLE CONNECTOR
FOR APPLICABLE ETHERNET CABLE DIAMETER
RANGE $\Phi 5.5 \sim \Phi 6.0$ MM

NOTE: CABLE ASSEMBLY INSTRUCTION SEE PAGE P1401!

WATERPROOF IP68 RATED PUSH-PULL TYPE DUPLEX LC FIBER OPTIC CABLE CONNECTOR

Pos.	Part Name	Material
1	Cable Inner	Polycarbonate + GF20%
2	Cable Outer	Polycarbonate + GF20%
3	Cable Nut	Polycarbonate
4	Optic Insert A	Polycarbonate
5	Optic Insert B	Polycarbonate
6	Optic LC Plug	---
7	Inner O-Ring	NBR + MoS2
8	Cable O-Ring	Silicon

SPECIFICATIONS

Ultraviolet Test: Continuous 720 Hours

Mating Cycles: 750 Min

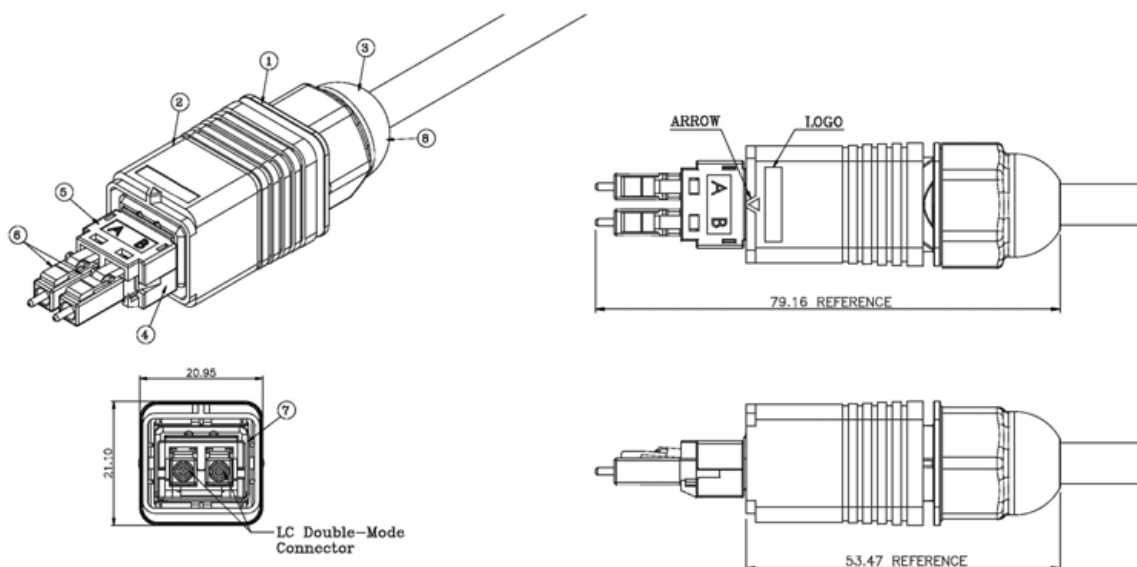
Temperature Range: -40°C~ 80°C

Waterproof Rate: IP68

Air Leak Test Spec: 1000mbar/150s/<10mbar

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP58-LCCA2

WATERPROOF IP68 RATED PUSH-PULL TYPE
DUPLEX LC OPTIC FIBER CABLE CONNECTOR
FOR APPLICABLE ETHERNET CABLE DIAMETER
RANGE $\Phi 5.5 \sim \Phi 6.0$ MM

NOTE: CABLE ASSEMBLY INSTRUCTION SEE PAGE P1401!

WATERPROOF IP68 RATED PUSH-PULL TYPE LC FIBER OPTIC PANEL MOUNT ADAPTOR TWO BLOCK TYPE

Pos.	Part Name	Material
1	Optic Receptacle	Polycarbonate + GF20%
2	Optic LC Adaptor + Dust Cap	---
3	Gasket	Silicone

SPECIFICATIONS

Ultraviolet Test: Continuous 720 Hours

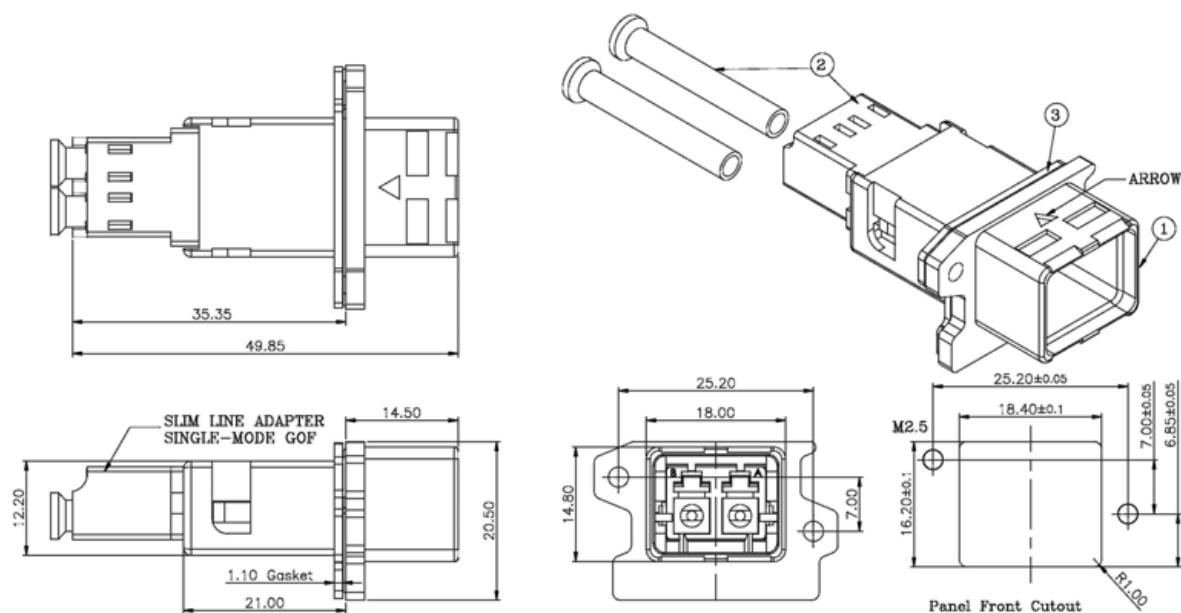
Temperature Range: -40°C~ 80°C

Waterproof Rate: IP68

Air Leak Test Spec: 1000mbar/150s/<10mbar

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP58-LCBX

WATERPROOF IP68 RATED PUSH-PULL TYPE
LC OPTIC FIBER PANEL MOUNT ADAPTOR TWO BLOCK TYPE

NOTE1: MATES WITH WATERPROOF CAP
P/N WP58-CAP01 & P/N WP58-CAP02

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1402!

WATERPROOF IP68 RATED PUSH-PULL TYPE LC FIBER OPTIC PANEL MOUNT ADAPTOR ONE BLOCK TYPE

Pos.	Part Name	Material
1	Optic Receptacle	Polycarbonate + GF20%
2	Optic LC Adaptor + Dust Cap	---
3	Gasket	Silicone

SPECIFICATIONS

Ultraviolet Test: Continuous 720 Hours

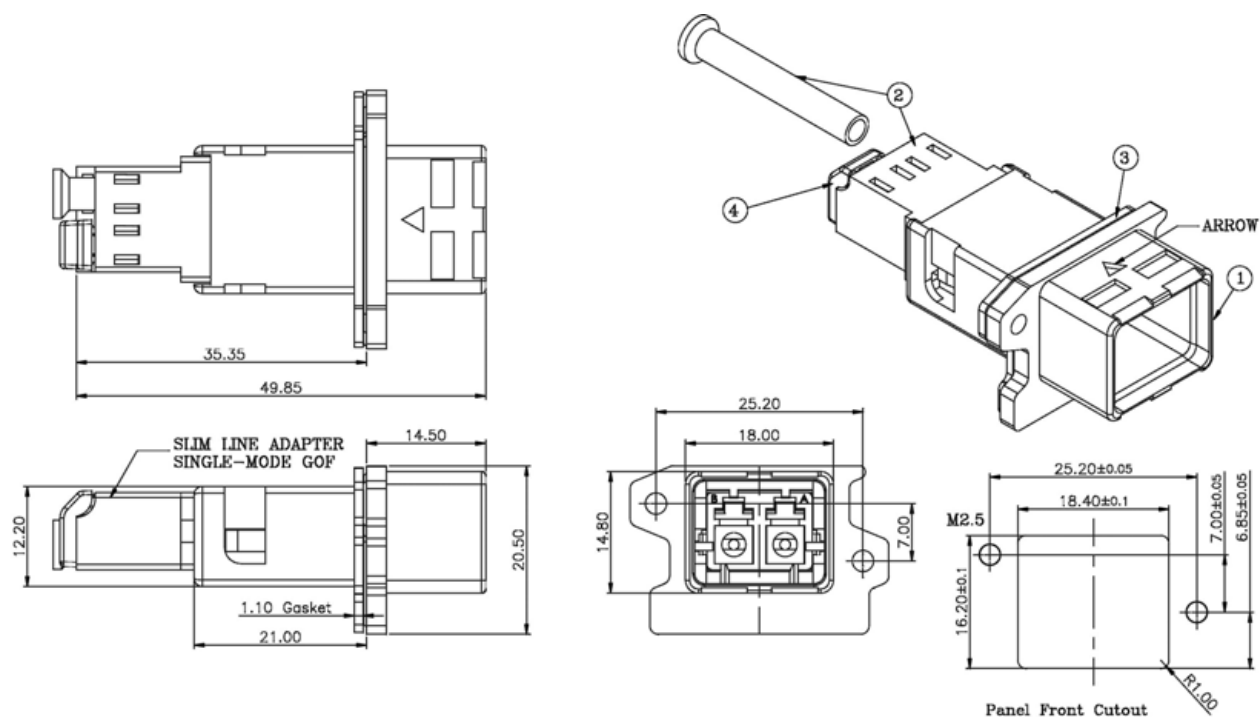
Temperature Range: -40°C~ 80°C

Waterproof Rate: IP68

Air Leak Test Spec: 1000mbar/150s/<10mbar

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N WP58-LCBY

WATERPROOF IP68 RATED PUSH-PULL TYPE
LC OPTIC FIBER PANEL MOUNT ADAPTOR
ONE BLOCK TYPE

NOTE1: MATES WITH WATERPROOF CAP
P/N WP58-CAP01 & P/N WP58-CAP02

NOTE2: ASSEMBLY INSTRUCTION SEE PAGE P1402!

WATERPROOF IP68 RATED PUSH-PULL TYPE LC FIBER OPTIC EXTENSION CORD ADAPTOR

Pos.	Part Name	Material
1	Adaptor Housing	---
2	Sleeves	---
3	Optic Extension Cord	PC+GF20%

SPECIFICATIONS

Ultraviolet Test: Continuous 720 Hours

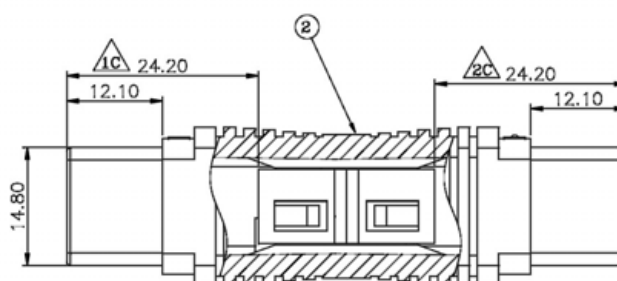
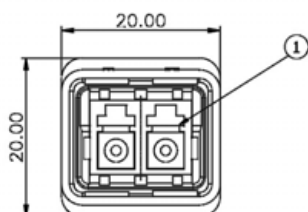
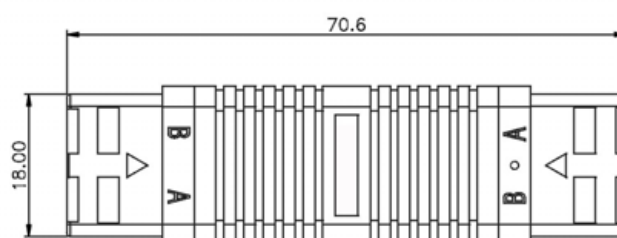
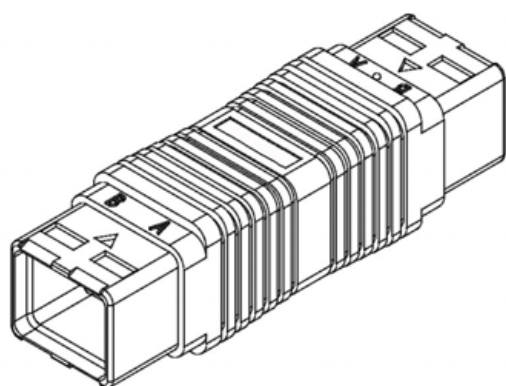
Temperature Range: -40°C~ 80°C

Waterproof Rate: IP68

Mating Cycles: 750min

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

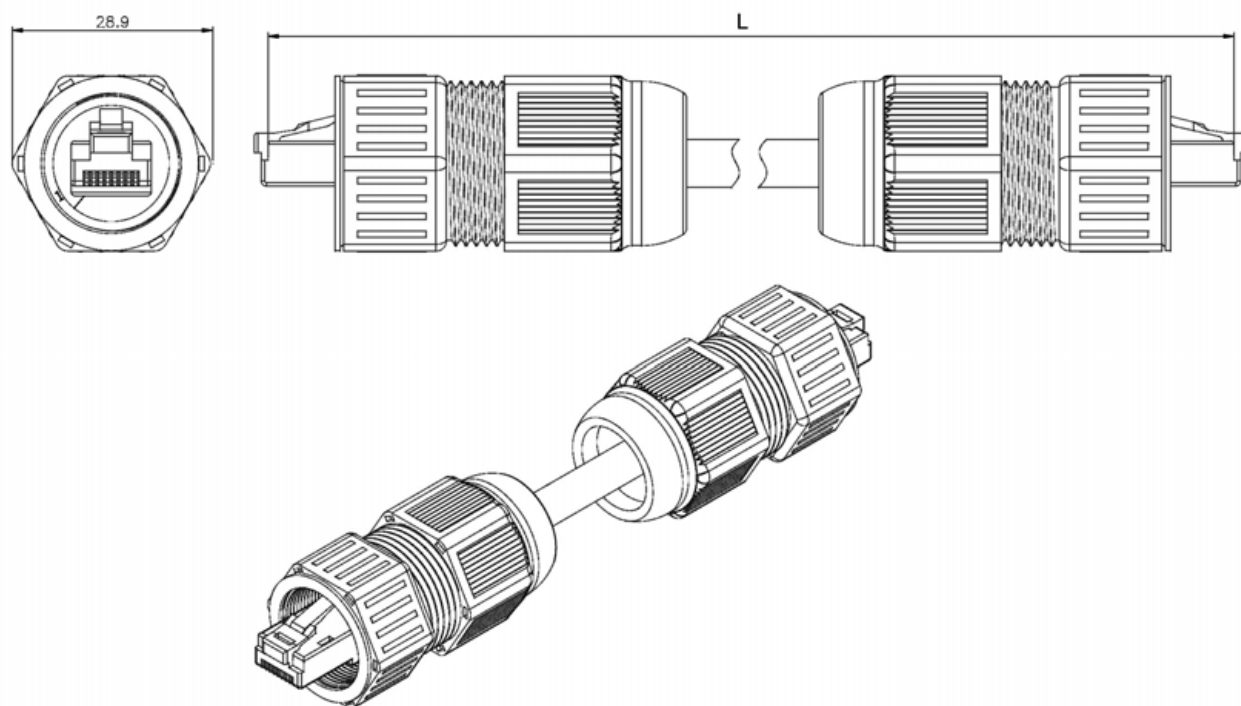
P/N WP58-LCFF

WATERPROOF IP68 RATED PUSH-PULL TYPE
LC OPTIC FIBER EXTENSION CORD ADAPTOR

WATERPROOF CABLE WITH IP68 RATED CAT. 5e RJ45 PLUG AT 2 ENDS

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P 5 2 A - $\frac{\text{xxx C M B}}{1 \quad 2}$

1. CABLE LENGTH L:

"183" L: 183 ± 3CM

"244" L: 244 ± 4CM

"427" L: 427 ± 6CM

"732" L: 732 ± 8CM

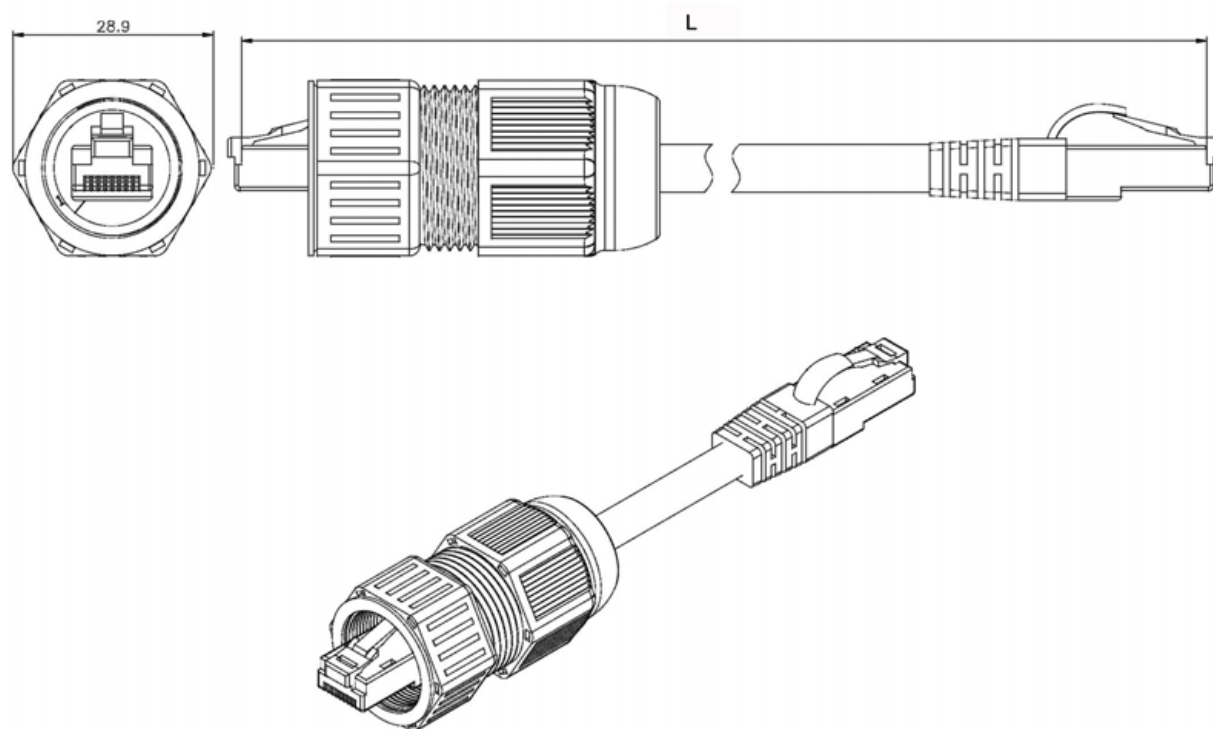
2. CABLE COLOR:

"B" BLACK

WATERPROOF CABLE WITH IP68 RATED CAT. 5e RJ45 PLUG TO NON-WATERPROOF RJ45 PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P 5 2 B - $\frac{\text{xxx C M x}}{1 \quad 2}$

1. CABLE LENGTH L:

"183" L: 183 ± 3CM

"244" L: 244 ± 4CM

"427" L: 427 ± 6CM

"732" L: 732 ± 8CM

2. CABLE COLOR:

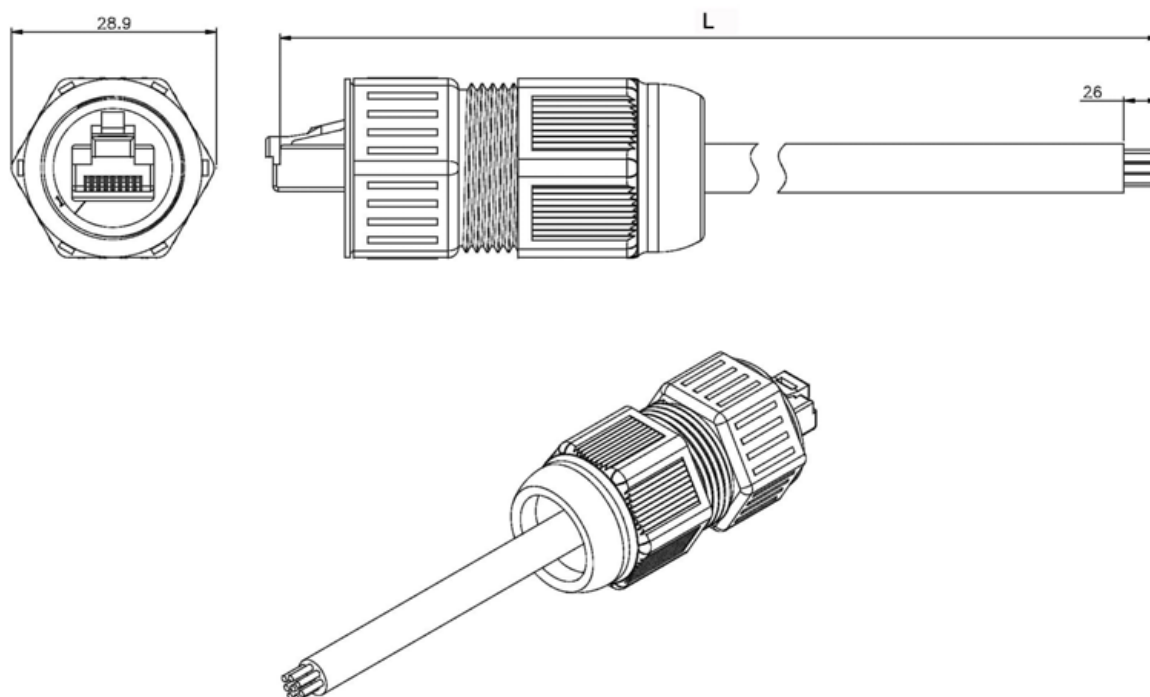
"B" BLACK (STANDARD)

"A" GRAY

WATERPROOF CABLE WITH IP68 RATED CAT. 5e RJ45 PLUG TO FLAYED END

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N KWP52C - $\frac{\text{xxxCM}}{1} \frac{\text{B}}{2}$

1. CABLE LENGTH L:

"183" L: 183 ± 3CM

"244" L: 244 ± 4CM

"427" L: 427 ± 6CM

"732" L: 732 ± 8CM

2. CABLE COLOR:

"B" BLACK

WATERPROOF CABLE WITH IP68 RATED RJ45 JACK TO 2.00MM PITCH 10 PIN HOUSING

MATERIALS:

Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

Contacts: Phosphor Bronze.

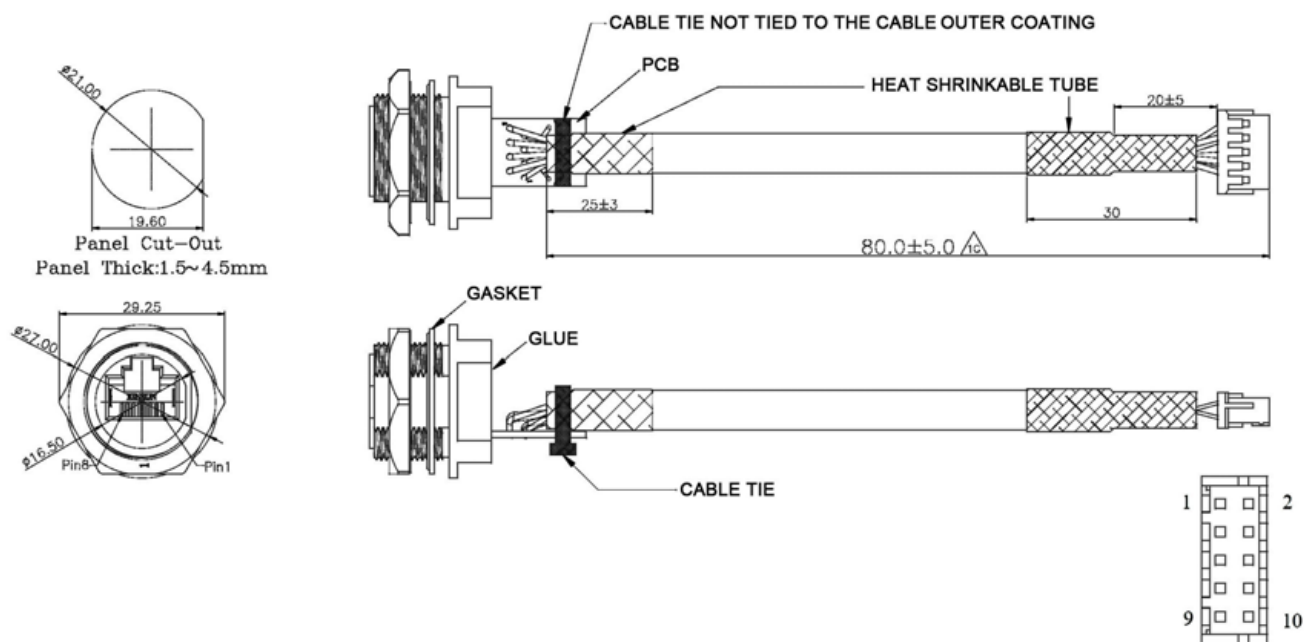
Plating: Gold Plating Over Nickel In Contact.

Nut: Engineering Thermoplastic Flammability Rating UL94V-0.

Gasket: Silicon

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N KWP52E - 008CM B
1 2

1. CABLE LENGTH:

"008" 8 ± 0.5CM

2. CABLE COLOR:

"B" BLACK

WATERPROOF CABLE WITH IP68 RATED RJ45 JACK + GROUNDING WIRE TO NON-WATERPROOF RJ45 PLUG

MATERIALS:

Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

Contacts: Phosphor Bronze.

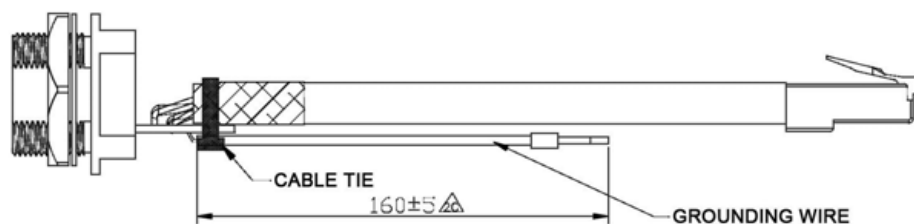
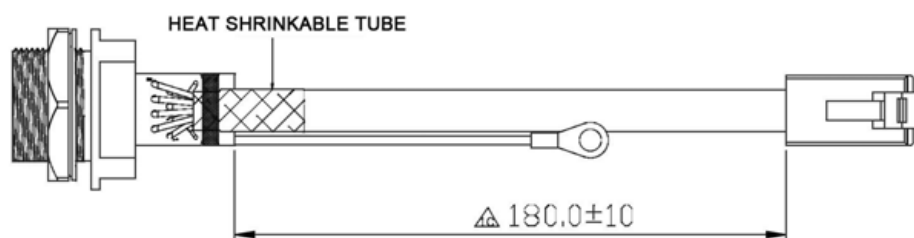
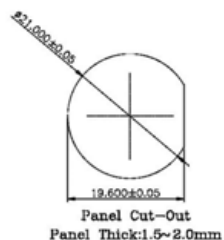
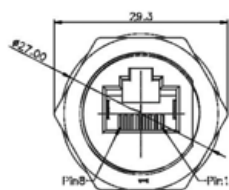
Plating: Gold Plating Over Nickel In Contact.

Nut: Engineering Thermoplastic Flammability Rating UL94V-0.

Gasket: Silicon

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N KWP52K - 018CM B
1 2

1. CABLE LENGTH:
"018" 18 ± 1CM
2. CABLE COLOR:
"B" BLACK

WATERPROOF CAT. 5e CABLE WITH IP68 RATED METAL SCREW TYPE RJ45 PLUG TO RJ45 MODULAR PLUG

MATERIALS:

Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

Contacts: Phosphor Bronze.

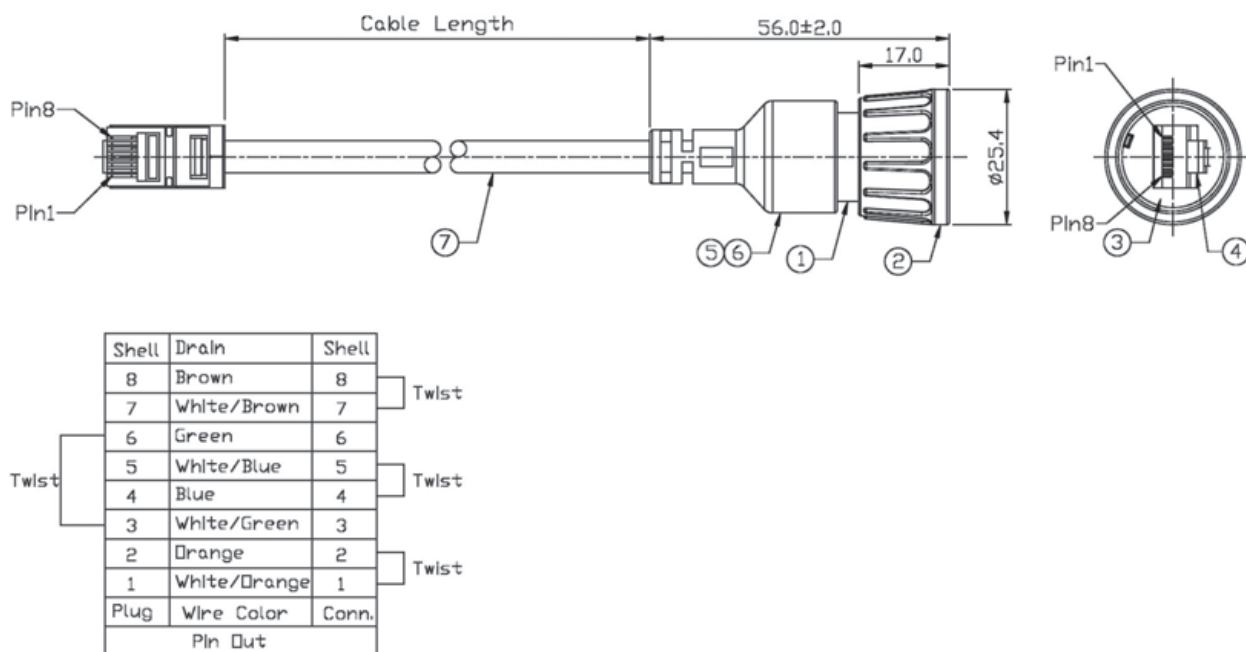
Plating: Gold Plating Over Nickel In Contact.

Nut: Engineering Thermoplastic Flammability Rating UL94V-0.

Gasket: Silicon

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N K W P 8 5 B - $\frac{x x M B}{1 \quad 2}$

1. CABLE LENGTH IN METERS:

"0.5M" L=500MM

"1M" L=1000MM

"2M" L=2000MM

OTHER LENGTHES ALSO AVAILABLE!

2. CABLE COLOR:

"B" BLACK

WATERPROOF CAT. 5e CABLE WITH IP67 RATED PLASTIC SCREW TYPE RJ45 PLUG TO RJ45 MODULAR PLUG

MATERIALS:

Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

Contacts: Phosphor Bronze.

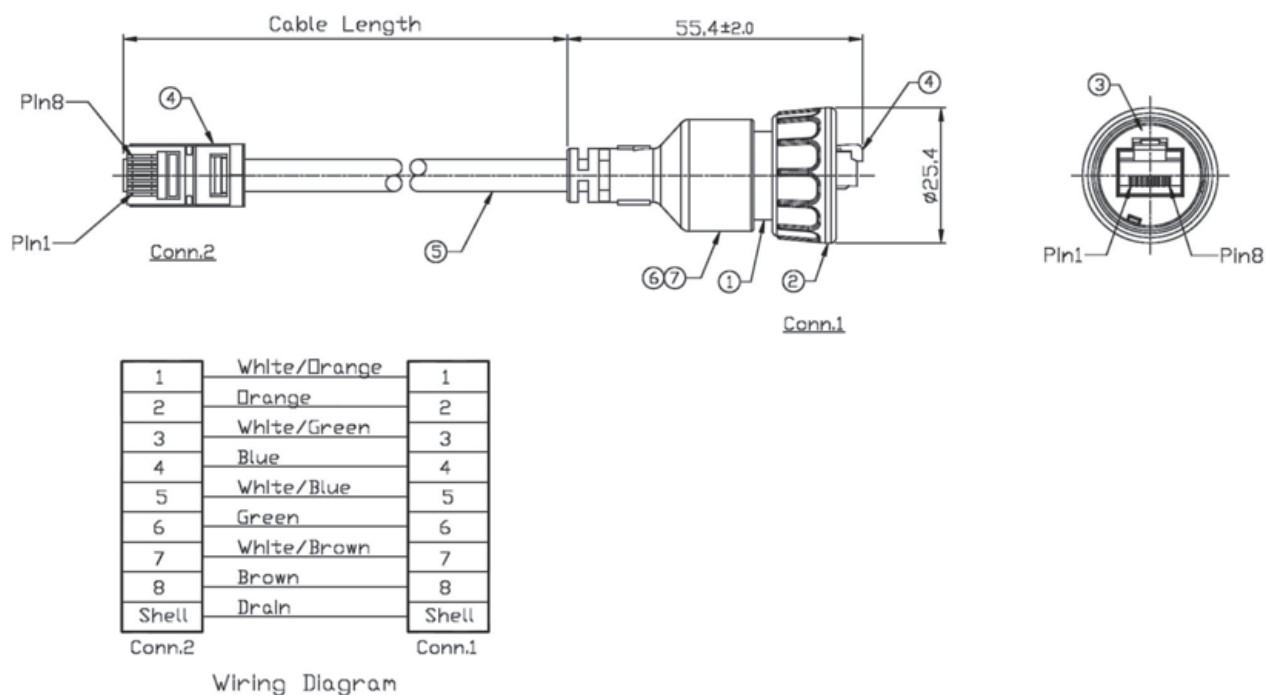
Plating: Gold Plating Over Nickel In Contact.

Nut: Engineering Thermoplastic Flammability Rating UL94V-0.

Gasket: Silicon

***RoHS & REACH compliant.**

Unit: mm



ORDERING INFORMATION:

P/N K W P 8 2 B - $\frac{xx}{1} \frac{M}{2} B$

1. CABLE LENGTH IN METERS:

"0.5M" L=500MM

"1M" L=1000MM

"2M" L=2000MM

OTHER LENGTHES ALSO AVAILABLE!

2. CABLE COLOR:

"B" BLACK

WATERPROOF CAT. 5e CABLE WITH IP67 RATED PLASTIC SCREW TYPE RJ45 PANEL MOUNT JACK TO OPEN END

MATERIALS:

Plastic Housing: Engineering Thermoplastic
Flammability Rating UL94V-0.

Contacts: Phosphor Bronze.

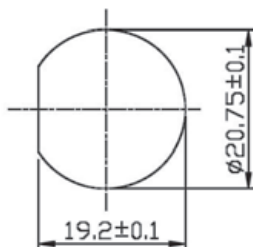
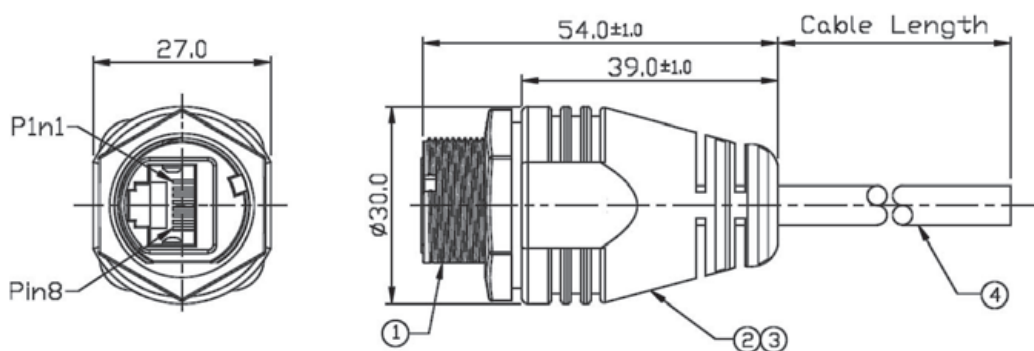
Plating: Gold Plating Over Nickel In Contact.

Nut: Engineering Thermoplastic Flammability Rating UL94V-0.

Gasket: Silicon

***RoHS & REACH compliant.**

Unit: mm



Recommend
Panel Cut-Out

Shell	Drain
8	Brown
7	White/Brown
6	Green
5	White/Blue
4	Blue
3	White/Green
2	Orange
1	White/Orange

Wiring Diagram

ORDERING INFORMATION:

P/N K W P 8 2 H - $\frac{x}{1} \frac{x}{2} M B$

1. CABLE LENGTH IN METERS:

"0.5M" L=500MM

"1M" L=1000MM

"2M" L=2000MM

OTHER LENGTHS ALSO AVAILABLE!

2. CABLE COLOR:

"B" BLACK

NOTE1: RECOMMEND PANEL THICKNESS 0.8~4.0MM

NOTE2: MATES WITH WATERPROOF CAP

P/N WP82-CAP02

WATERPROOF IP68 RATED METAL LOCK TYPE USB2.0 A TYPE PANEL MOUNT ADAPTOR

MATERIAL AND FINISH:

Receptacle Housing: Zn Alloy 3,Nickel Plated

Panel Nut: Coper Alloy,Nickel Plated

Panel Gasket: Silicone

Usb Overmold: ABS, Black

Usb Conn: Usba AF2.0

Durability: 1500 Mating Cycles

***RoHS & REACH compliant.**

Unit: mm

ELECTRICAL SPECIFICATIONS:

Meet USB2.0 Specification

Current Rating: 1.5 A max.

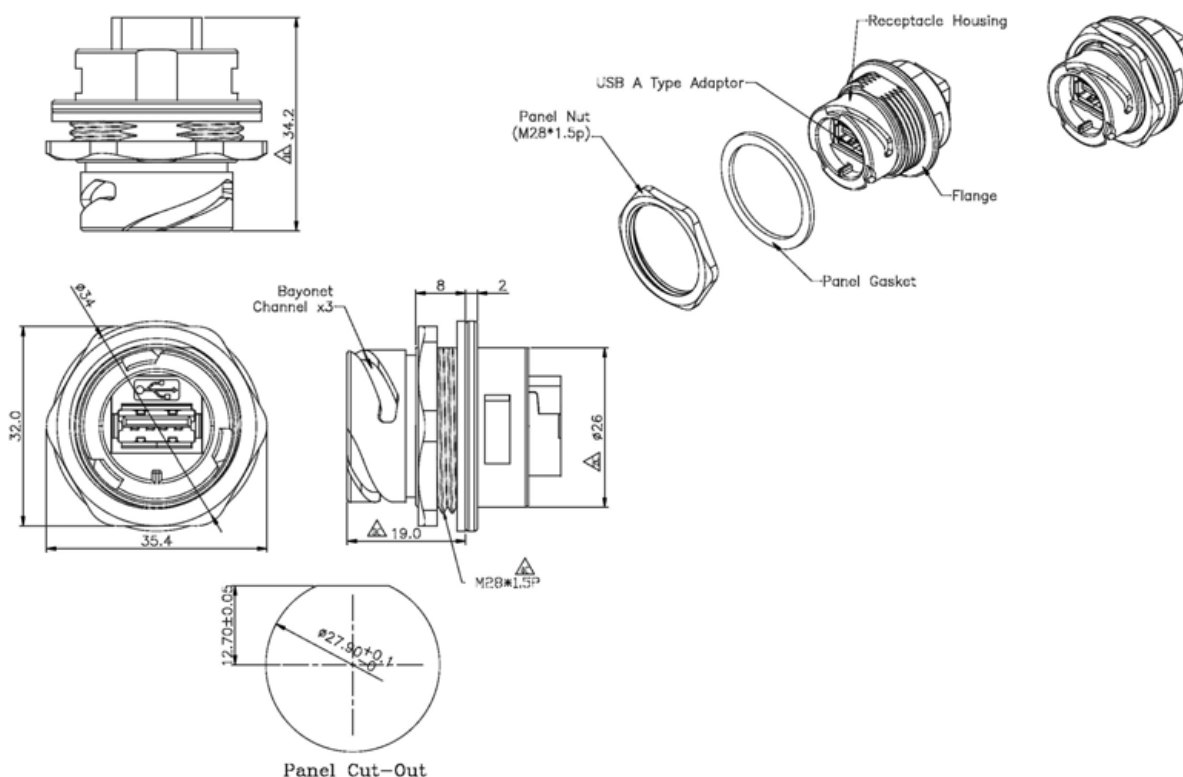
Insulation Resistance:1000 Megohms min.

Contact Resistance: 30 mOhm max.

Voltage Rating: 100VDC

Dwv: 500V AC/60s Pin To Pin;1000V AC/60s Pin To Shell.

Operating Temperature: -40°C To + 85°C



ORDERING INFORMATION:

P/N WP53M - U A F F

WATERPROOF IP68 RATED METAL LOCK TYPE
USB2.0 A TYPE PANEL MOUNT ADAPTOR FOR FRONT
MOUNTING TO A MAXIMUM PANEL THICKNESS
OF 3.2MM

NOTE: MATES WITH WATERPROOF CAP
P/N WP53M-CAP02

WATERPROOF IP67 RATED USB A TYPE LOCK PLATE MOUNT JACK

MATERIALS:

1.USB Connector:

Housing: PBT UL94V-0; Color: Black

Contact: Phosphor Bronze

Shell: Brass

2.Parts:

Extetal Housing: PBT UL94V-0; Color:Black

Nut: Pbt UL94V-0; Color:Black

Washer: Pbt UL94V-0; Color:Black

O-Ring: Silicon

3.Plating

Contact: Gold Palting On Contact Aera

Bright Tin On Solder Aera

Shell: Nickel Plating On Over All

Pin Header: Gold Palting

***RoHS & REACH compliant.**

Unit: mm

SPECIFICATION:

1.Electrical Specification:

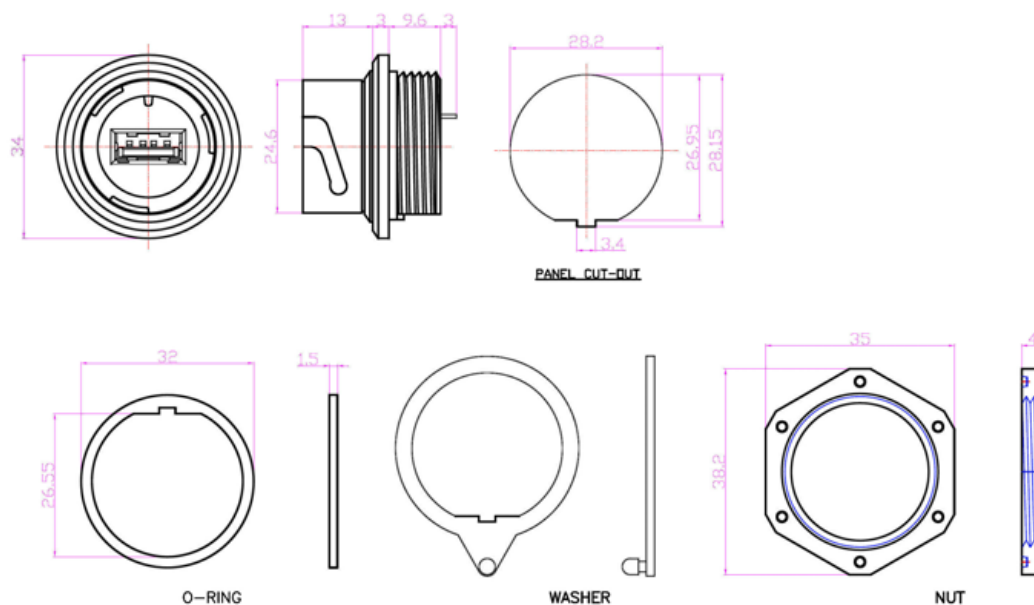
Rated Current: 1A

Rated Voltage: 30V

Water proof: IP67

2.Environmental:

Operating Temperature: -20°C ~ 85°C



ORDERING INFORMATION:

P/N W P 9 9 - U A F 1

WATERPROOF IP67 RATED PLASTIC TYPE
USB A TYPE LOCK PLATE MOUNT JACK

WATERPROOF WIREHARNESS CABLE WITH IP68 RATED USB2.0 A TYPE JACK TO 2.00MM PITCH 5 PIN HOUSING

NOTES:

Material: 1. Housing & Nut: Engineering Thermoplastic, UL94V-0. Color: Black.

2. Gasket: Silicon, Color: Red.

3. Contact: Phosphor Bronze.

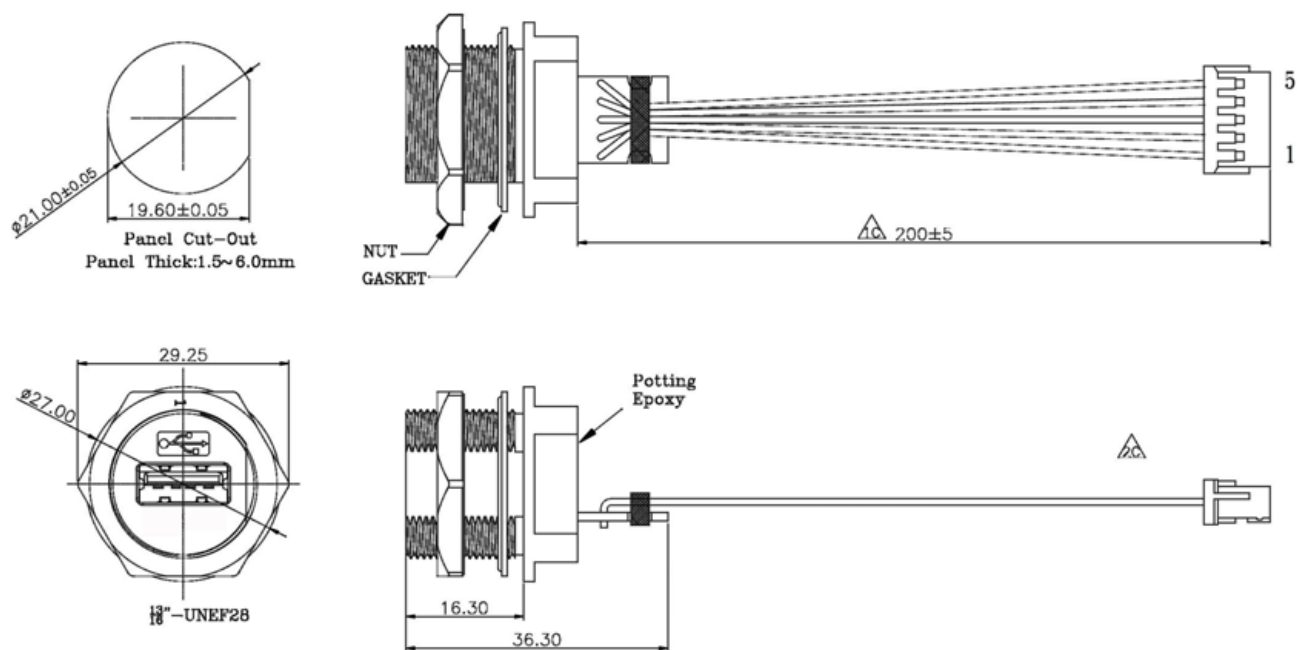
Finish: Contact: Gold Plating Over Nickel In Contact.

Durability: 1500 Mating Cycles.

***RoHS & REACH compliant.**

Unit: mm

1 Brown	Ground
2 Black	GND
3 Green	D+
4 White	D-
5 Red	VBUS



ORDERING INFORMATION:

P/N KWP52U - 020CM
1

1. CABLE LENGTH:

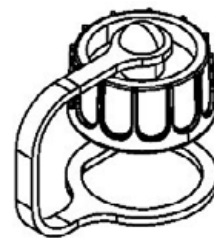
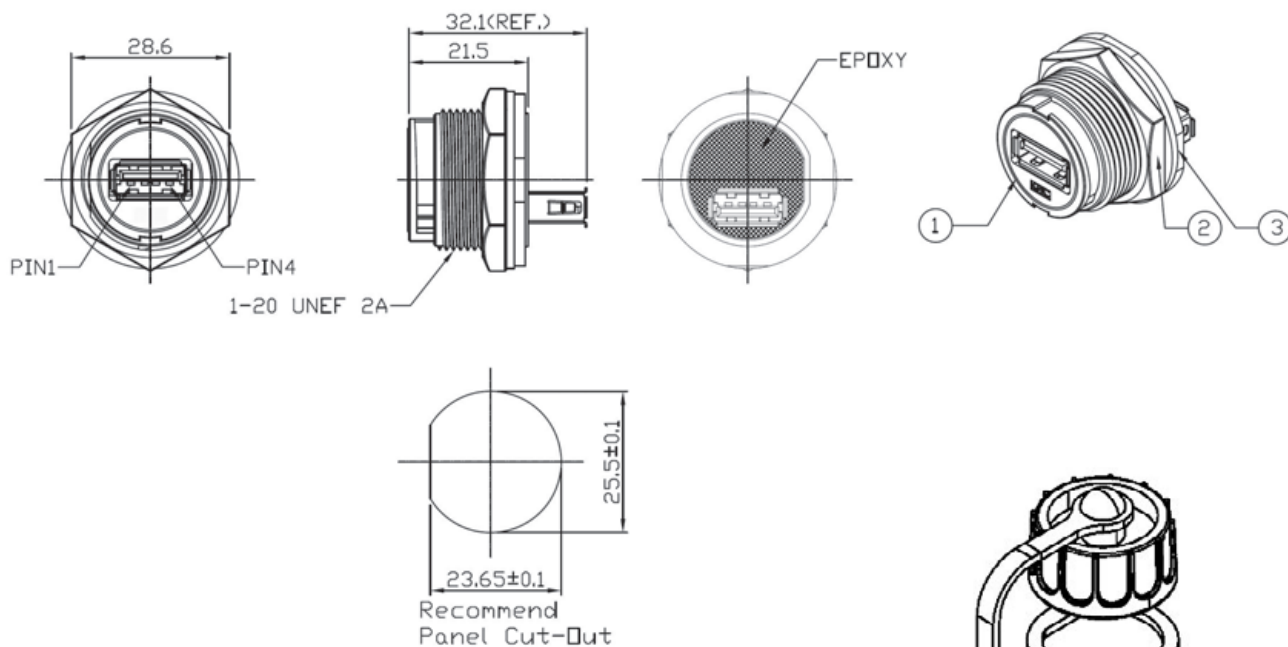
"020" 20 ± 0.5CM

WATERPROOF IP67 RATED PLASTIC LOCK USB A TYPE FEMALE TO FEMALE COUPLER

RECOMMENDED PANEL THICKNESS 0.8~6.0MM

*RoHS & REACH compliant.

Unit: mm



With rubber chain
WPUA-CAP01

ORDERING INFORMATION:

P/N W P U A - 4 F 4 F

WATERPROOF IP67 RATED PLASTIC LOCK USB A TYPE
4 PIN FEMALE TO FEMALE COUPLER

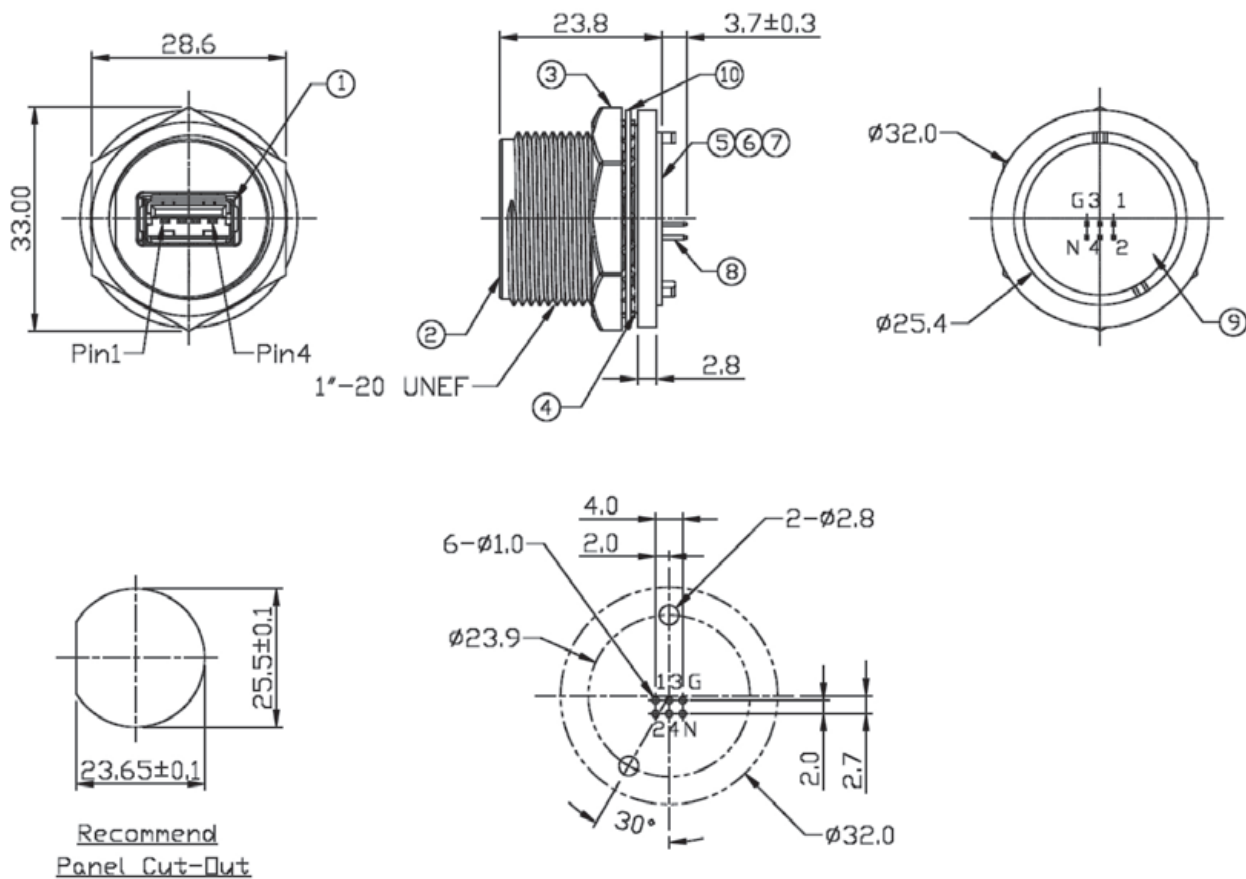
NOTE: MATES WITH CAP P/N WPUA-CAP01

WATERPROOF IP68 RATED METAL SCREW USB A TYPE JACK

RECOMMENDED PANEL THICKNESS 0.8~8.0MM

*RoHS & REACH compliant.

Unit: mm



Recommend
Panel Cut-Out

Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N W P U A - 0 4 F 3

WATERPROOF IP68 RATED METAL SCREW USB A TYPE
4 PIN PANEL MOUNT JACK

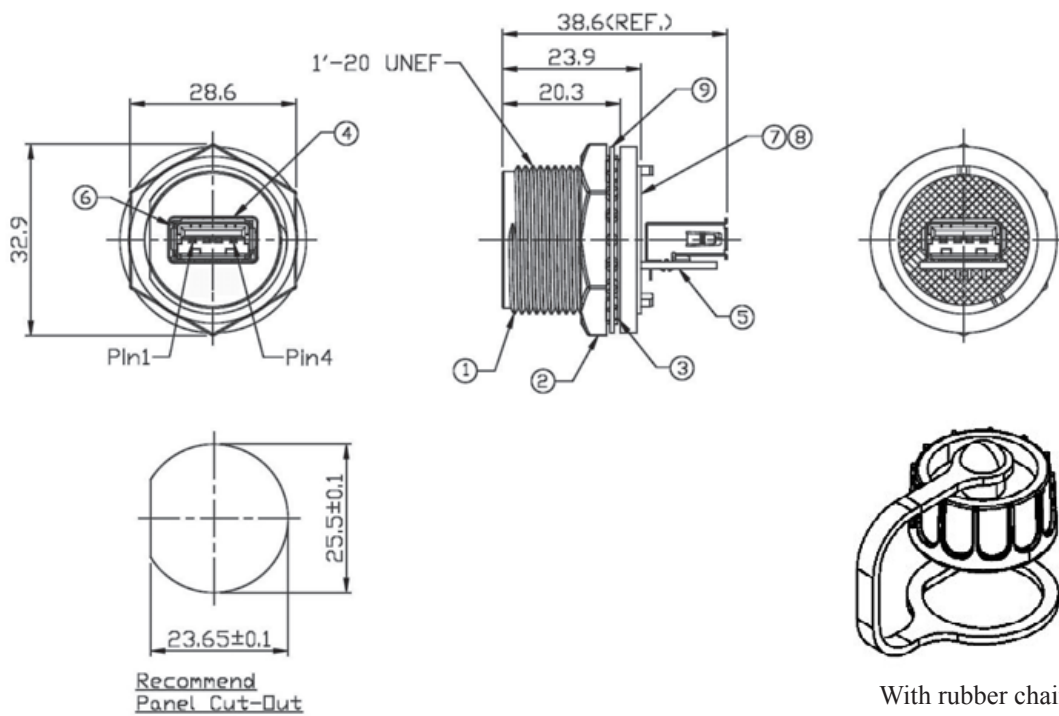
NOTE: MATES WITH CAP P/N WPUA-CAP02

WATERPROOF IP68 RATED METAL SCREW USB A TYPE PANEL MOUNT JACK

RECOMMENDED PANEL THICKNESS 0.8~8.0MM

*RoHS & REACH compliant.

Unit: mm



With rubber chain
WPUA-CAP02

ORDERING INFORMATION:

P/N W P U A - 0 4 F 1

WATERPROOF IP68 RATED METAL SCREW USB A TYPE
4 PIN PANEL MOUNT FEMALE CONNECTOR

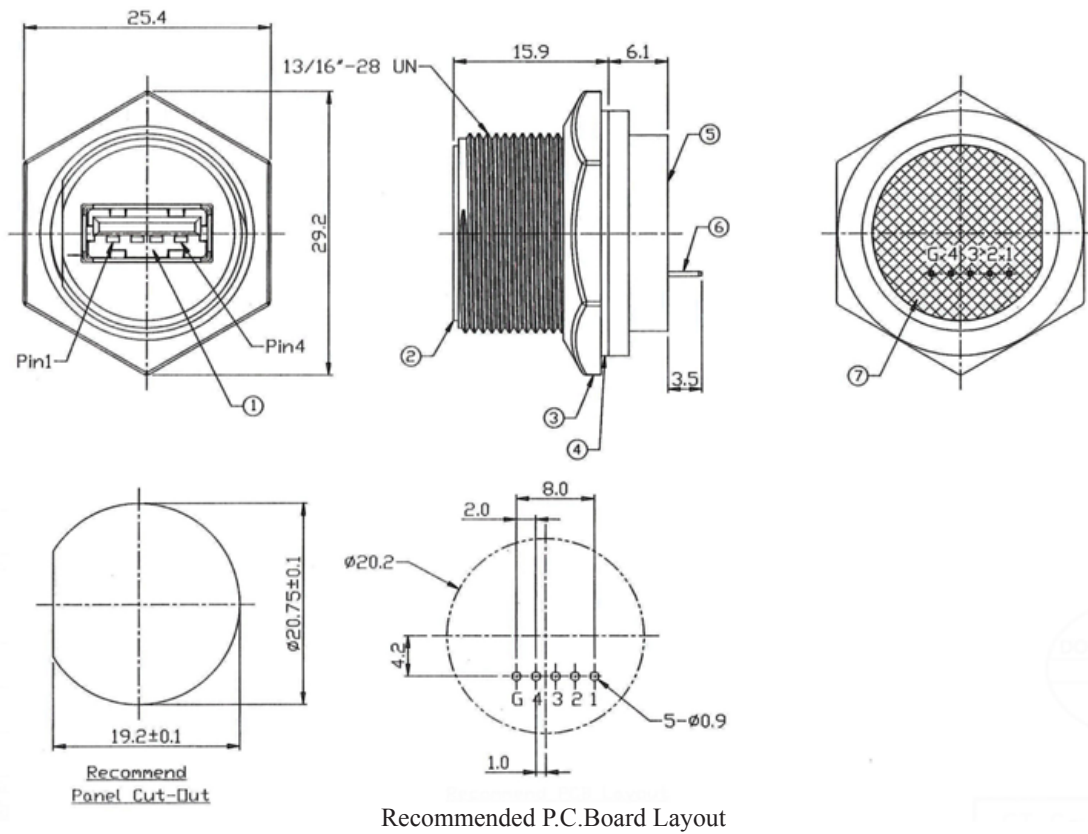
NOTE: MATES WITH CAP P/N WPUA-CAP02

WATERPROOF IP67 RATED PLASTIC SCREW USB A TYPE PANEL MOUNT DIP JACK

RECOMMENDED PANEL THICKNESS 0.8~6.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N W P U A - 0 4 F 2

WATERPROOF IP67 RATED PLASTIC SCREW USB A TYPE
4 PIN PANEL MOUNT PCB MOUNT FEMALE CONNECTOR

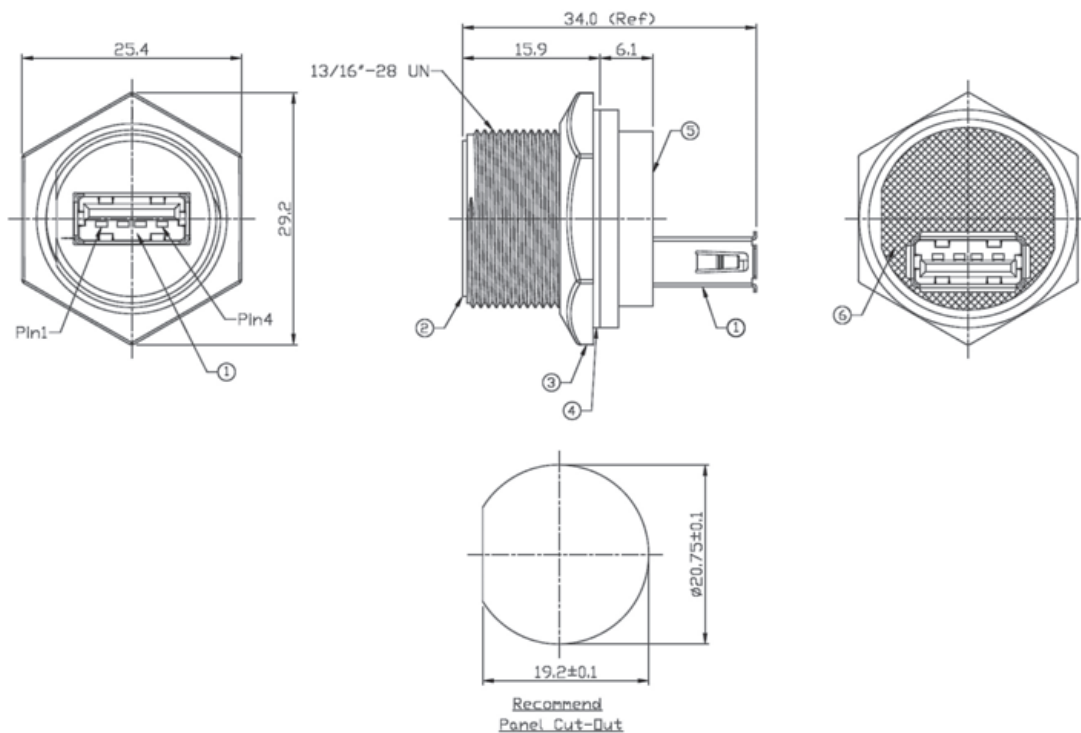
NOTE: MATES WITH WATERPROOF CAP P/N WPUA-CAP03

WATERPROOF IP67 RATED USB A TYPE PLASTIC SCREW FEMALE TO FEMALE COUPLER

RECOMMENDED PANEL THICKNESS 0.8~6.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N W P U A - 4 G 4 G

WATERPROOF IP67 RATED PLASTIC SCREW USB A TYPE
4 PIN FEMALE TO FEMALE COUPLER

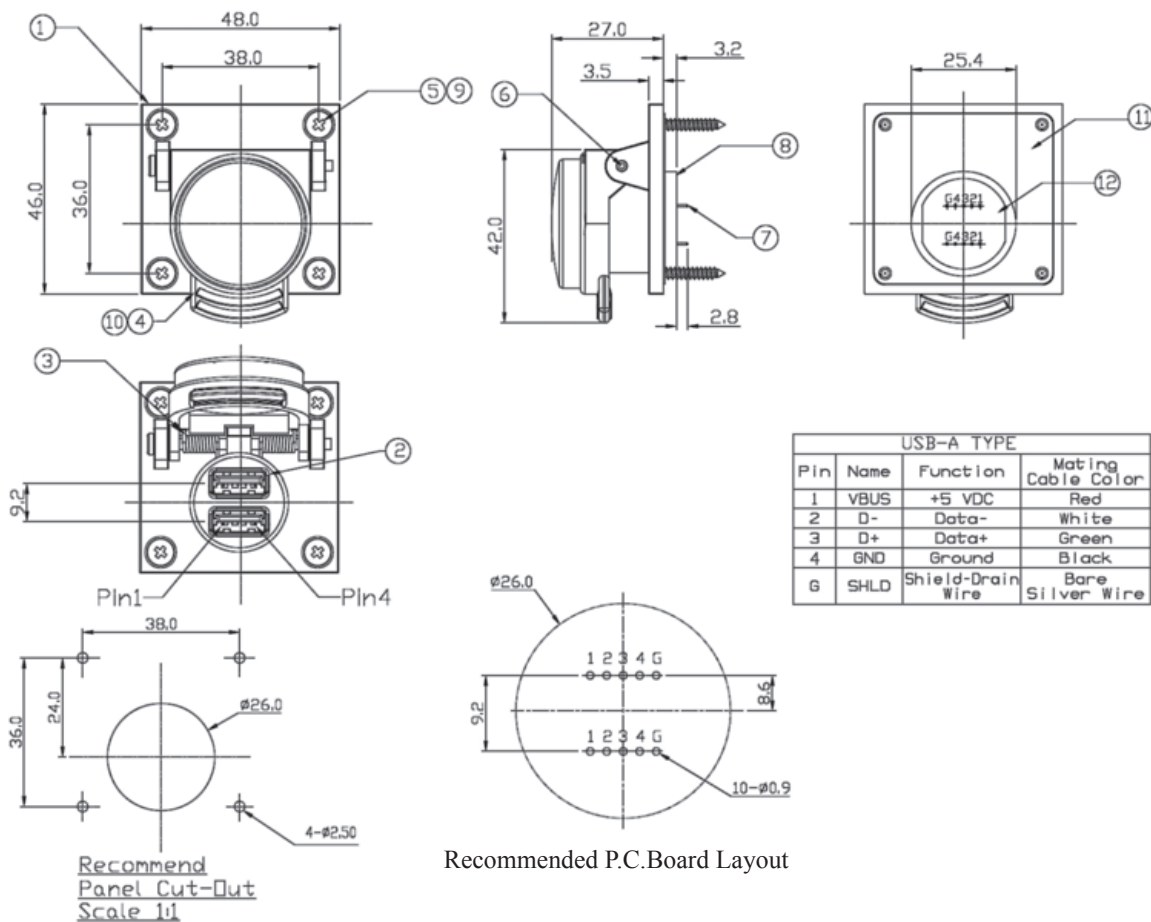
NOTE: MATES WITH WATERPROOF CAP P/N WPUA-CAP03

WATERPROOF IP65 RATED DUAL PORT USB A TYPE DIP TYPE JACK WITH CAP

RECOMMENDED PANEL THICKNESS 0.8~3.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

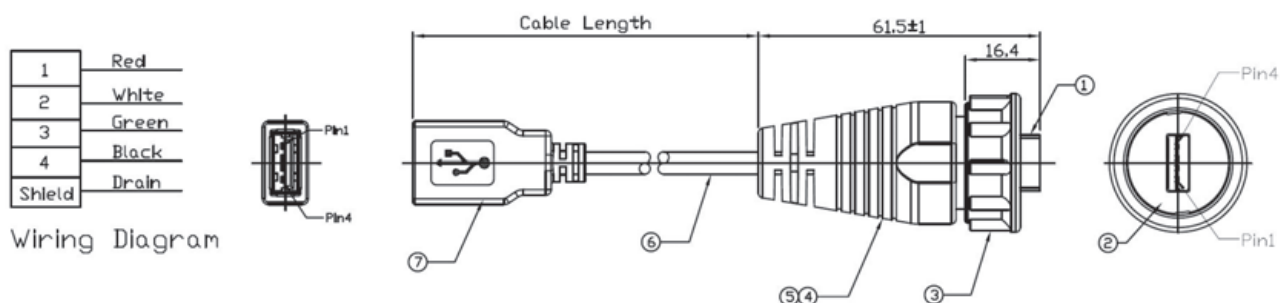
P/N W P U A - 0 8 F C

WATERPROOF IP65 RATED PANEL SQUARE FLANGE DUAL PORT
USB A TYPE 8 PIN PCB MOUNT FEMALE CONNECTOR WITH CAP

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK USB A TYPE PLUG TO USB A TYPE JACK

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UA64 - xx M B

1. CABLE ASSEMBLY TYPE:

"UA64" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
USB A TYPE 4 PIN PLUG TO USB A TYPE FEMALE CONNECTOR

2. CABLE LENGTH IN METERS:

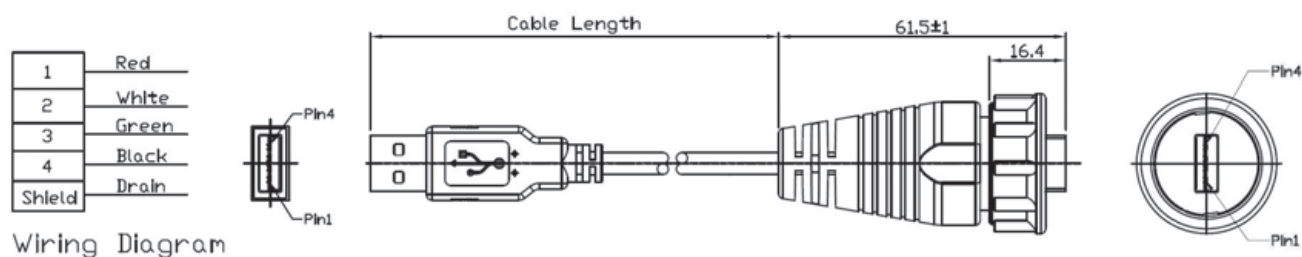
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUA-4F4F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK USB A TYPE PLUG TO USB A TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UA 6 3 - x x M B

1 2

1. CABLE ASSEMBLY TYPE:

"UA63" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
USB A TYPE 4 PIN PLUG TO USB A TYPE MALE CONNECTOR

2. CABLE LENGTH IN METERS:

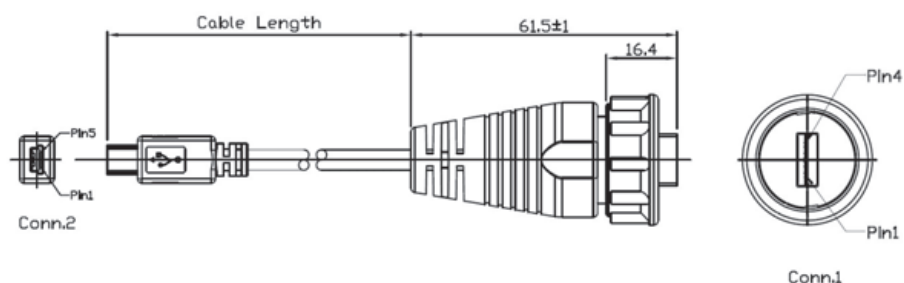
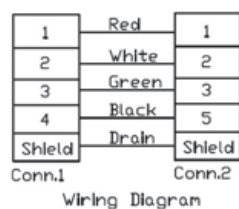
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUA-4F4F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK USB A TYPE PLUG TO MINI USB B TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UA66 - xx M B

1 2

1. CABLE ASSEMBLY TYPE:

"UA66" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
USB A TYPE 4 PIN PLUG TO MINI USB B TYPE MALE CONNECTOR

2. CABLE LENGTH IN METERS:

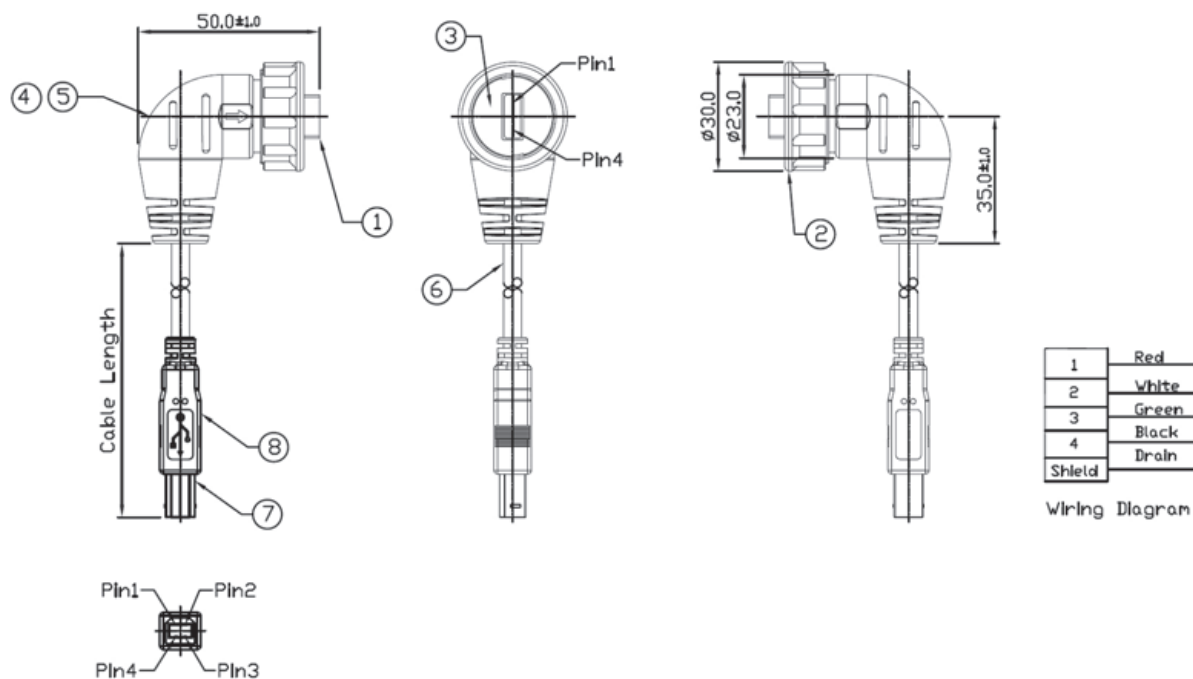
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUA-4F4F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK RIGHT ANGLE USB A TYPE PLUG TO USB B TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N KWP UA70 - xx M B

1. CABLE ASSEMBLY TYPE:

"UA70" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
RIGHT ANGLE USB A TYPE 4 PIN PLUG TO USB B TYPE PLUG

2. CABLE LENGTH IN METERS:

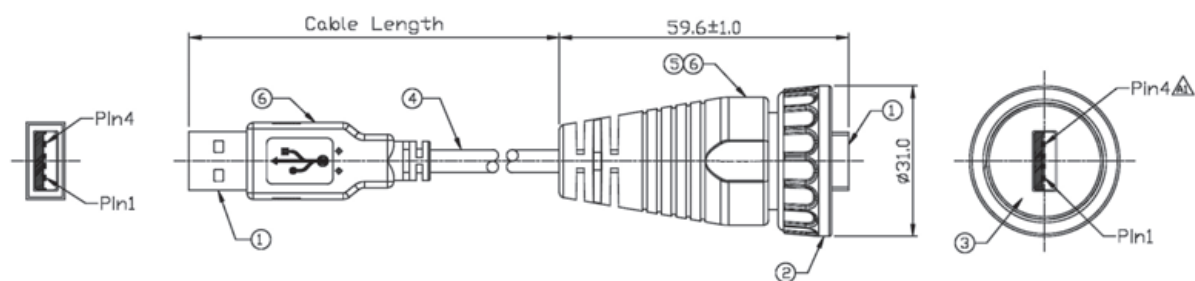
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUA-4F4F

WATERPROOF CABLE WITH IP68 RATED METAL SCREW USB A TYPE PLUG TO USB A TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



1	Red
2	White
3	Green
4	Black
Shell	Drain

Wiring Diagram

ORDERING INFORMATION:

P/N K W P UA58- x x M B

1. CABLE ASSEMBLY TYPE:

"UA58" WATERPROOF IP68 RATED METAL SCREW OVER-MOLDED
USB A TYPE 4 PIN PLUG TO NON-WATERPROOF USB A TYPE PLUG

2. CABLE LENGTH IN METERS:

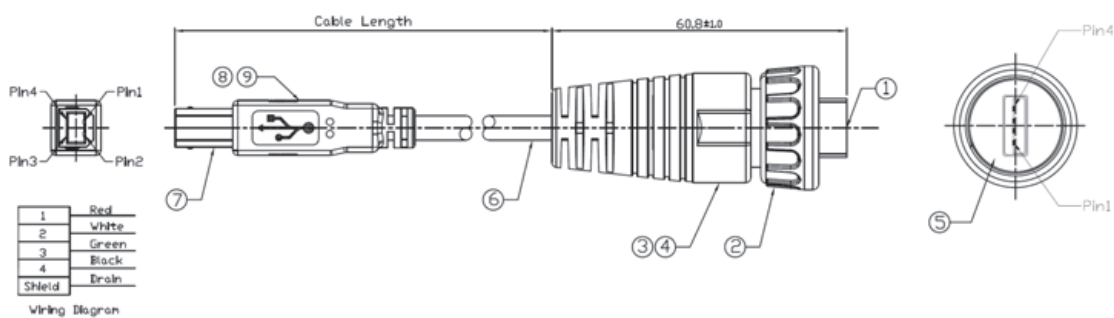
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUA-04F1 & WPUA-04F3

WATERPROOF CABLE WITH IP67 RATED PLASTIC SCREW USB A TYPE PLUG TO USB B TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UA72- x x M B

1. CABLE ASSEMBLY TYPE:

"UA72" WATERPROOF IP67 RATED PLASTIC SCREW OVER-MOLDED
USB A TYPE 4 PIN PLUG TO USB B TYPE MALE CONNECTOR

2. CABLE LENGTH IN METERS:

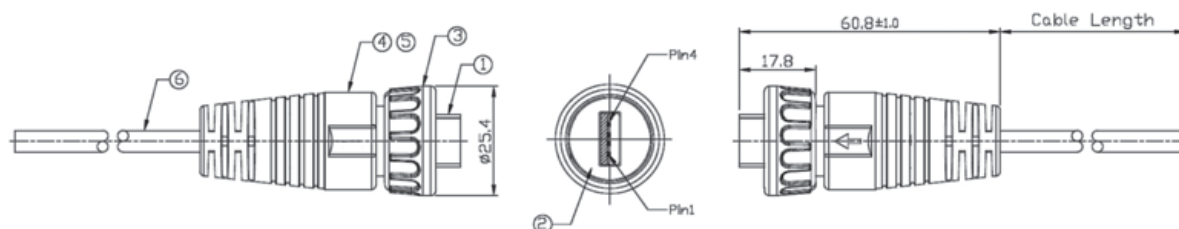
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUA-04F2 & WPUA-4G4G

WATERPROOF CABLE WITH IP67 RATED PLASTIC SCREW USB A TYPE PLUG TO OPEN END

*RoHS & REACH compliant.

Unit: mm



1	Red
2	White
3	Green
4	Black
Shell	Drain

Wiring Diagram

ORDERING INFORMATION:

P/N K W P UA71- xx M B

1. CABLE ASSEMBLY TYPE:

"UA71" WATERPROOF IP67 RATED PLASTIC SCREW OVER-MOLDED
USB A TYPE 4 PIN PLUG TO OPEN END

2. CABLE LENGTH IN METERS:

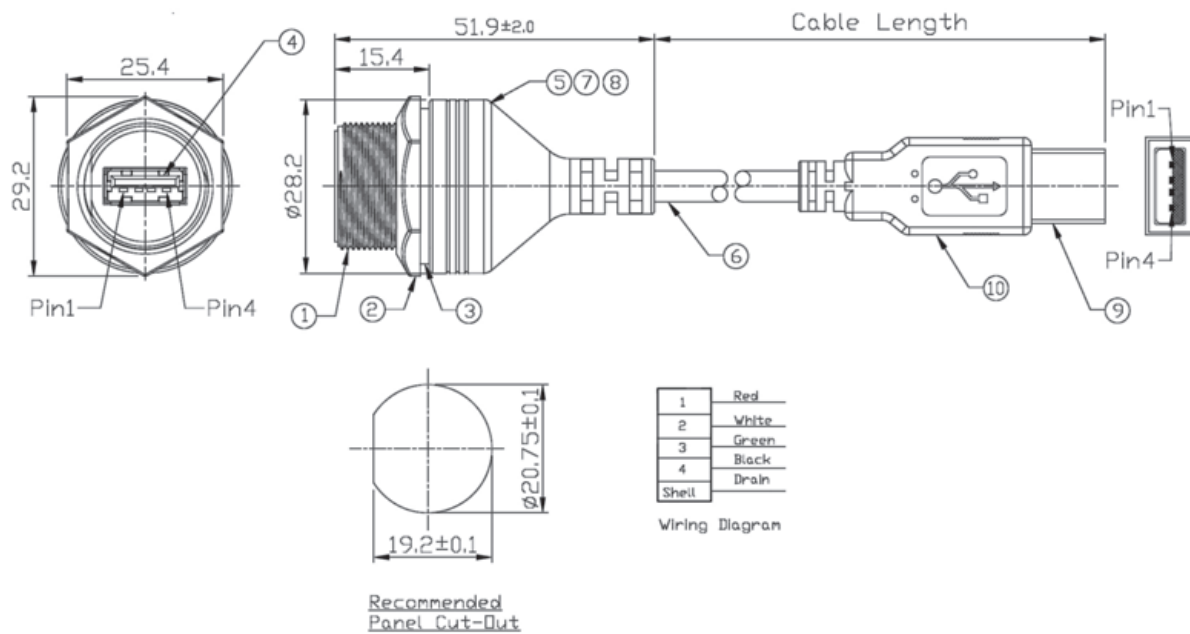
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUA-04F2 & WPUA-4G4G

WATERPROOF CABLE WITH IP67 RATED PLASTIC SCREW USB A TYPE PLUG TO USB A TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UA51- 1 2 M B

1. CABLE ASSEMBLY TYPE:

"UA51" WATERPROOF IP67 RATED PLASTIC SCREW OVER-MOLDED
USB A TYPE 4 PIN FEMALE CONNECTOR TO USB A TYPE PLUG

2. CABLE LENGTH IN METERS:

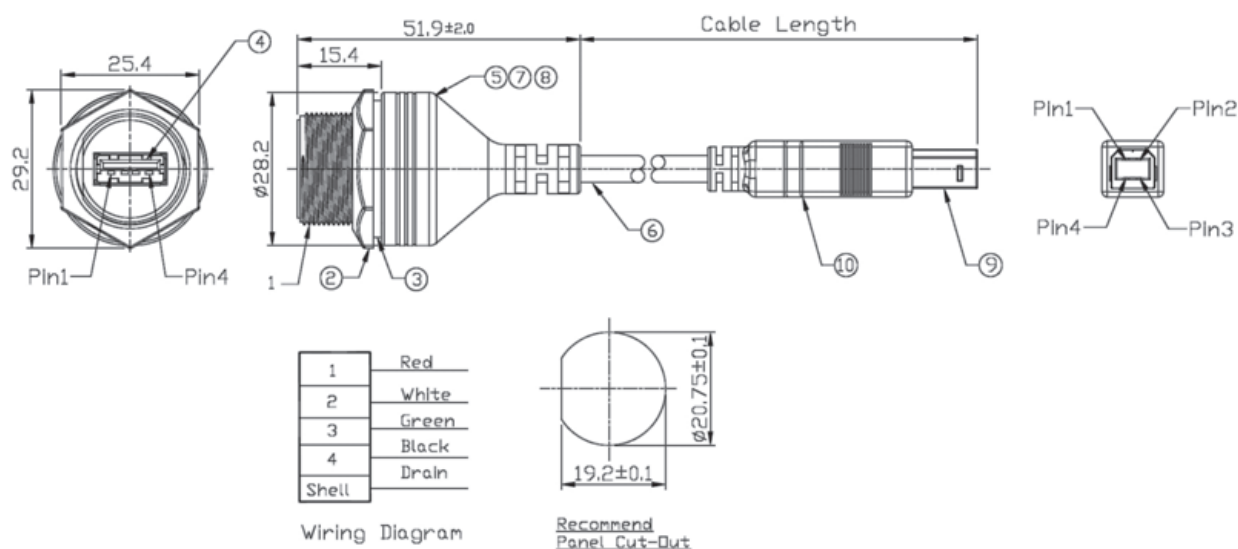
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUA-CAP03

WATERPROOF CABLE WITH IP67 RATED PLASTIC SCREW USB A TYPE JACK TO USB B TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UA52-xxMB
1 2

1. CABLE ASSEMBLY TYPE:

"UA52" WATERPROOF IP67 RATED PLASTIC SCREW OVER-MOLDED
USB A TYPE 4 PIN FEMALE CONNECTOR TO USB B TYPE PLUG

2. CABLE LENGTH IN METERS:

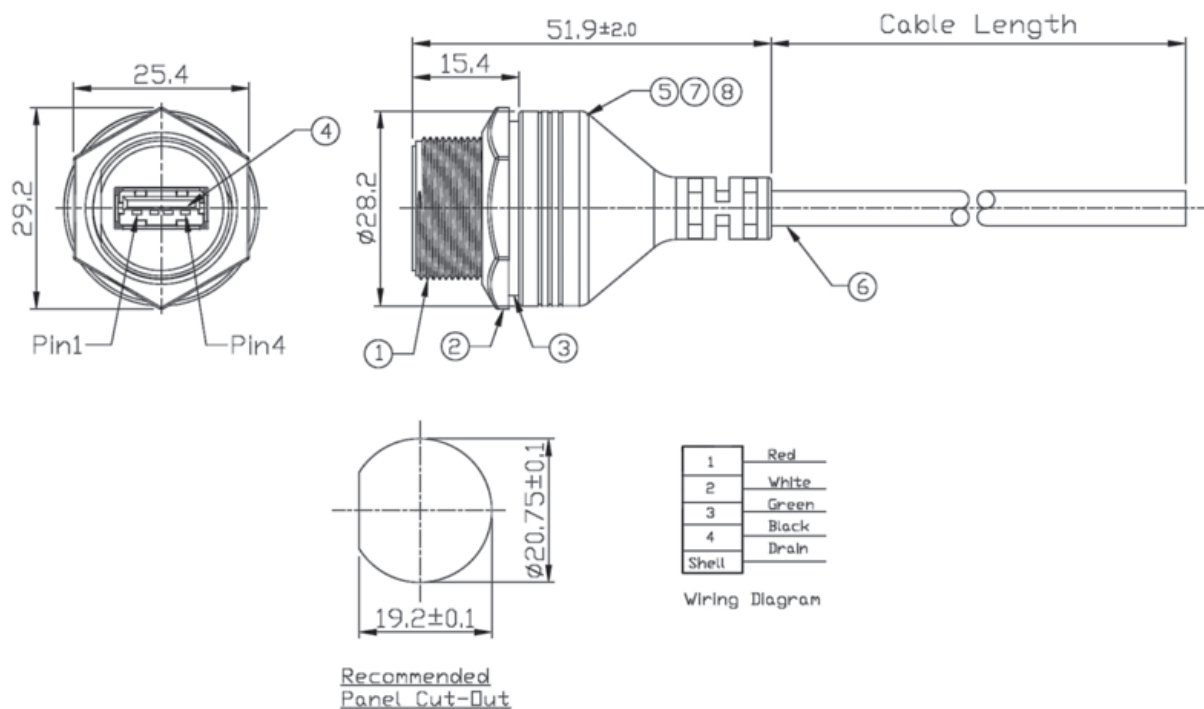
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUA-CAP01

WATERPROOF CABLE WITH IP67 RATED PLASTIC SCREW USB A TYPE JACK TO OPEN END

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UA73- x x M B

1. CABLE ASSEMBLY TYPE:

"UA73" WATERPROOF IP67 RATED PLASTIC SCREW OVER-MOLDED
USB A TYPE 4 PIN FEMALE CONNECTOR TO OPEN END

2. CABLE LENGTH IN METERS:

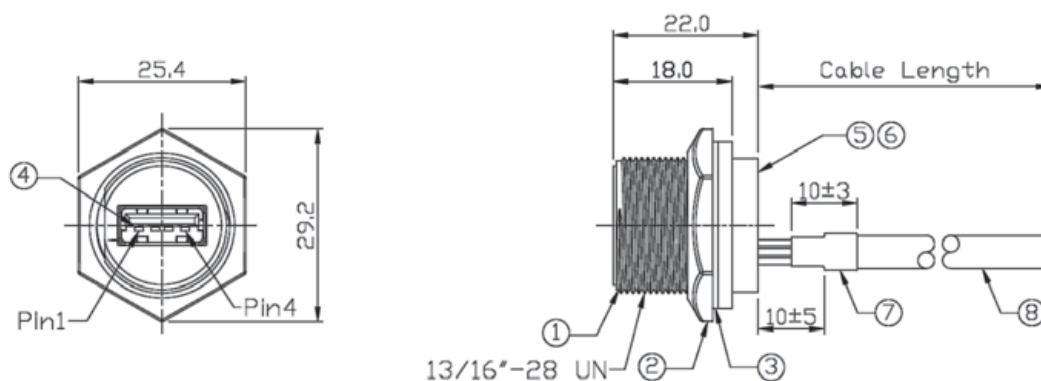
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUA-CAP03

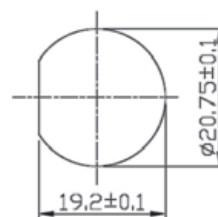
WATERPROOF CABLE WITH IP67 RATED PLASTIC SCREW USB A TYPE PANEL MOUNT JACK TO OPEN END

*RoHS & REACH compliant.

Unit: mm



Wiring Diagram



Recommend
Panel Cut-Out

ORDERING INFORMATION:

P/N K W P UA74- x x M B

1. CABLE ASSEMBLY TYPE:

"UA74" WATERPROOF IP67 RATED PLASTIC SCREW USB A TYPE
4 PIN PANEL MOUNT FEMALE CONNECTOR TO OPEN END

2. CABLE LENGTH IN METERS:

1M, 2M, 2.5M, 3M,...etc.

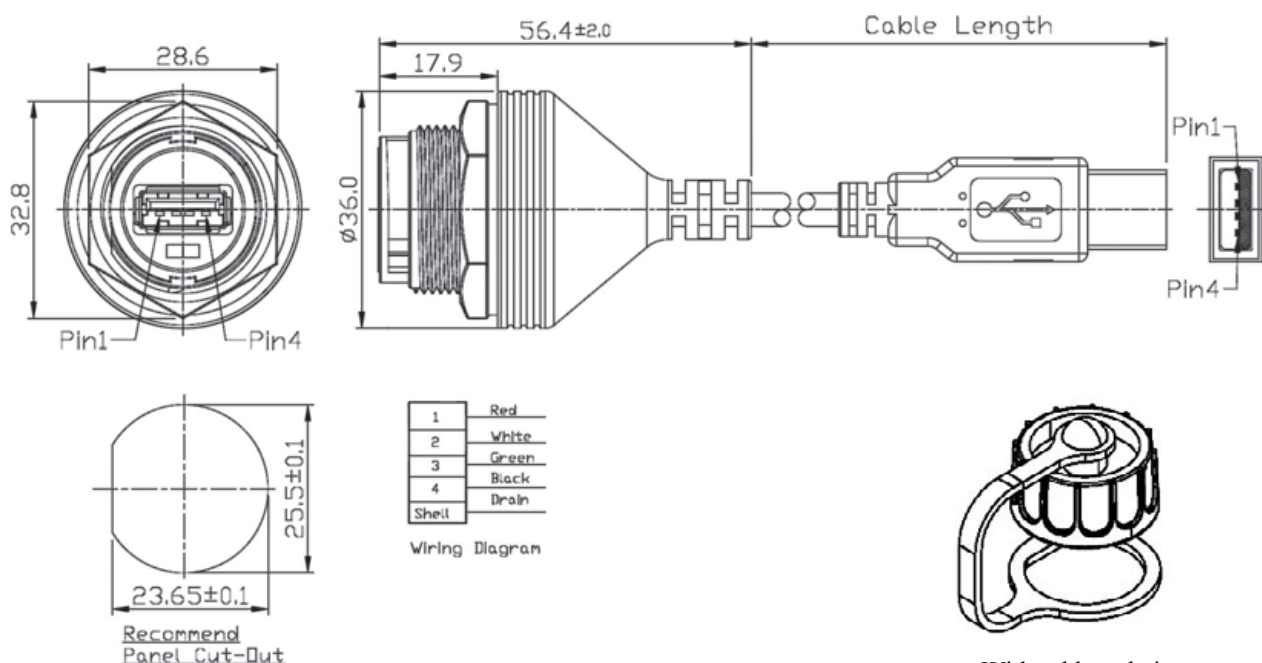
NOTE: MATES WITH CAP P/N WPUA-CAP03

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK USB A TYPE PANEL MOUNT JACK TO USB A TYPE PLUG

NOTES:

1. Waterproof Rate: IP67
2. Recommend Panel: 0.8 to 5.0 mm
3. Recommend Torque: 6~7 Kgf-cm
4. Mating Cap P/N: WPUA-CAP01
5. RoHS & REACH Compliance
6. Cable: 28AWG*1P+24AWG*2C
- *RoHS & REACH compliant.

Unit: mm



With rubber chain
WPUA-CAP01

ORDERING INFORMATION:

P/N K W P UA59 - xx M B

1. CABLE ASSEMBLY TYPE:

"UA59" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
USB A TYPE 4 PIN JACK TO USB A TYPE PLUG

2. CABLE LENGTH IN METERS:

1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUA-CAP01

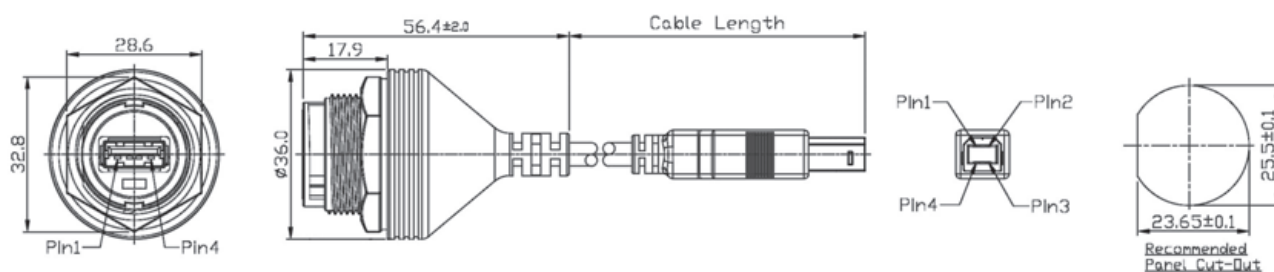
WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK USB A TYPE PANEL MOUNT JACK TO USB B TYPE PLUG

NOTES:

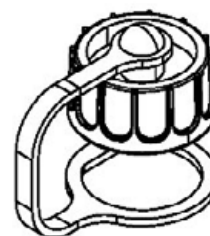
1. Waterproof Rate: IP67
2. Recommend Panel: 0.8 to 5.0 mm
3. Recommend Torque: 6~7 Kgf-cm
4. Mating Cap P/N: WPUA-CAP01
5. RoHS & REACH Compliance
6. Cable: 28AWG*1P+24AWG*2C

*RoHS & REACH compliant.

Unit: mm



Wiring Diagram



With rubber chain
WPUA-CAP01

ORDERING INFORMATION:

P/N K W P UA61 - xx M B

1. CABLE ASSEMBLY TYPE:

"UA61" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
USB A TYPE 4 PIN JACK TO USB B TYPE PLUG

2. CABLE LENGTH IN METERS:

1M, 2M, 2.5M, 3M,...etc.

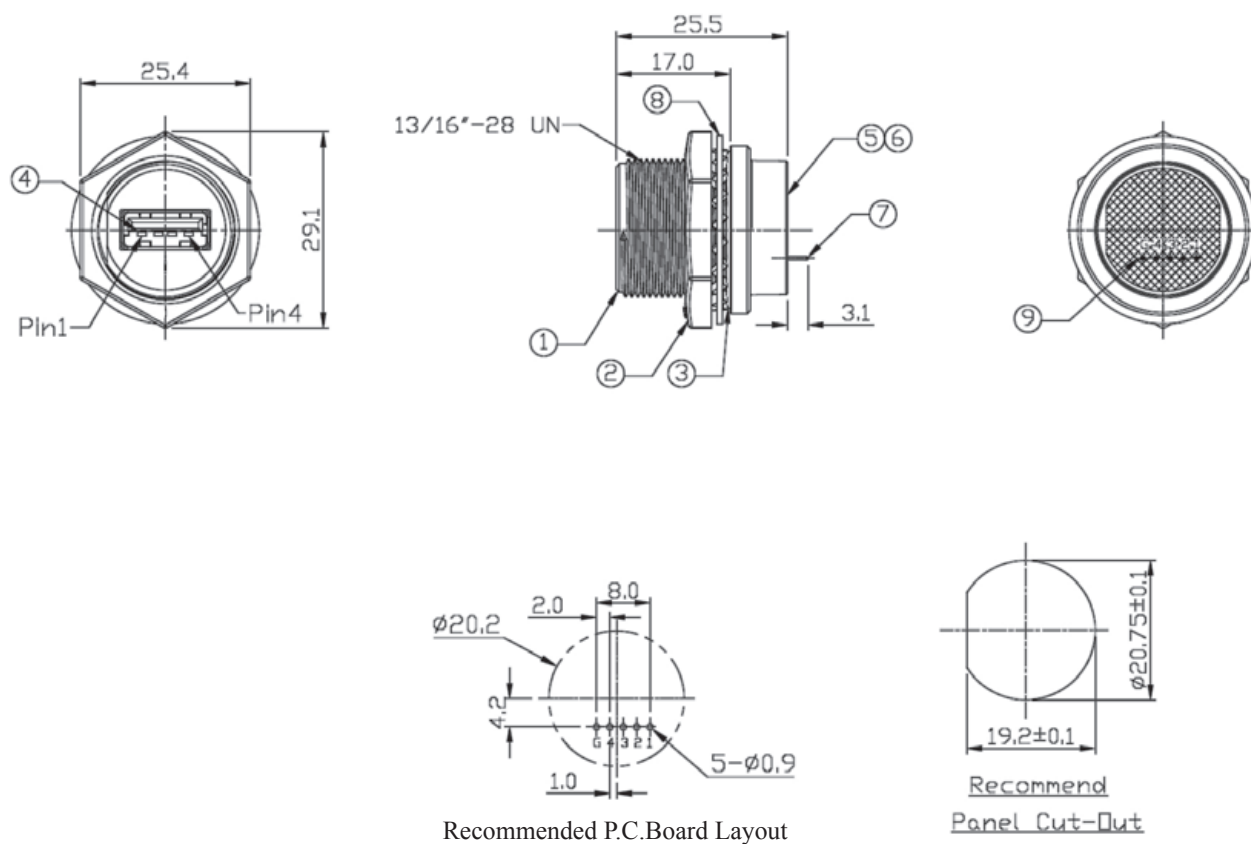
NOTE: MATES WITH CAP P/N WPUA-CAP01

WATERPROOF IP68 RATED METAL SCREW USB 2.0 A TYPE JACK

RECOMMENDED PANEL THICKNESS 0.8~6.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N W P U A - 2 0 A F M

WATERPROOF IP68 RATED USB 2.0 A TYPE
4 PIN METAL SCREW PANEL MOUNT JACK

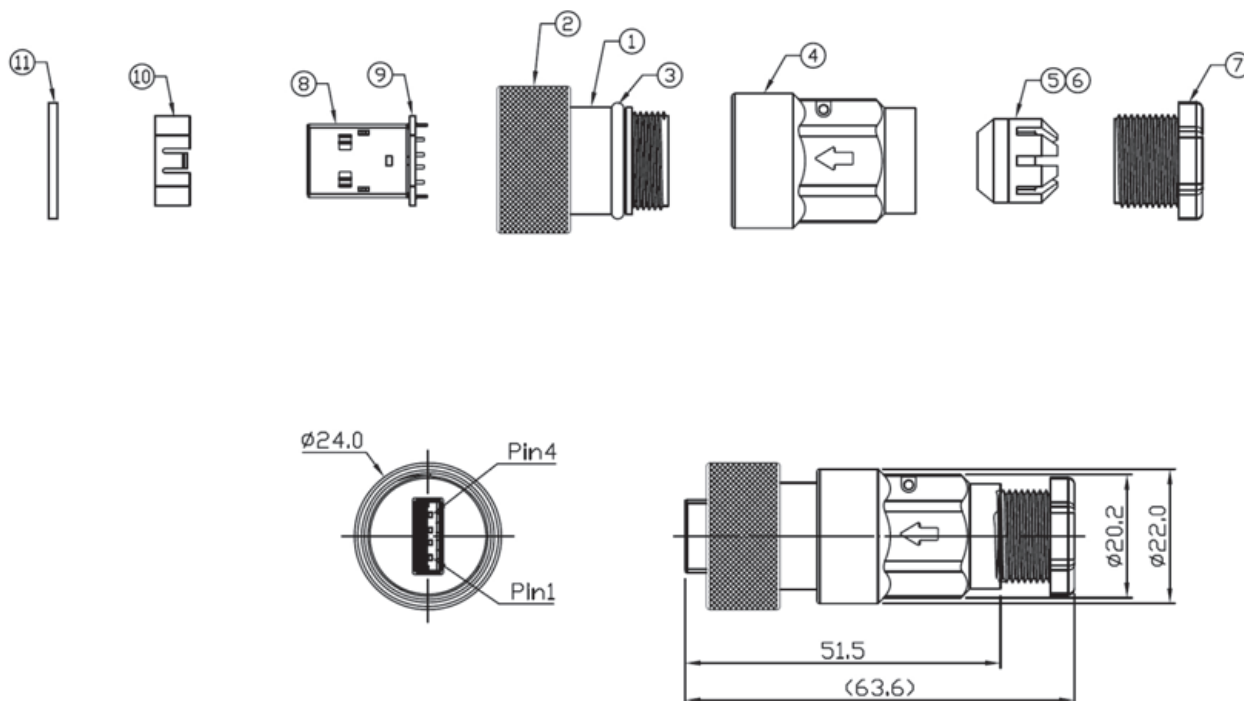
NOTE: MATES WITH CAP P/N WPUA-20CAP3 & WPUA-20CAP4

WATERPROOF IP67 RATED METAL SCREW USB 2.0 A TYPE PLUG

SUITABLE CABLE OD=4.0MM TO 6.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

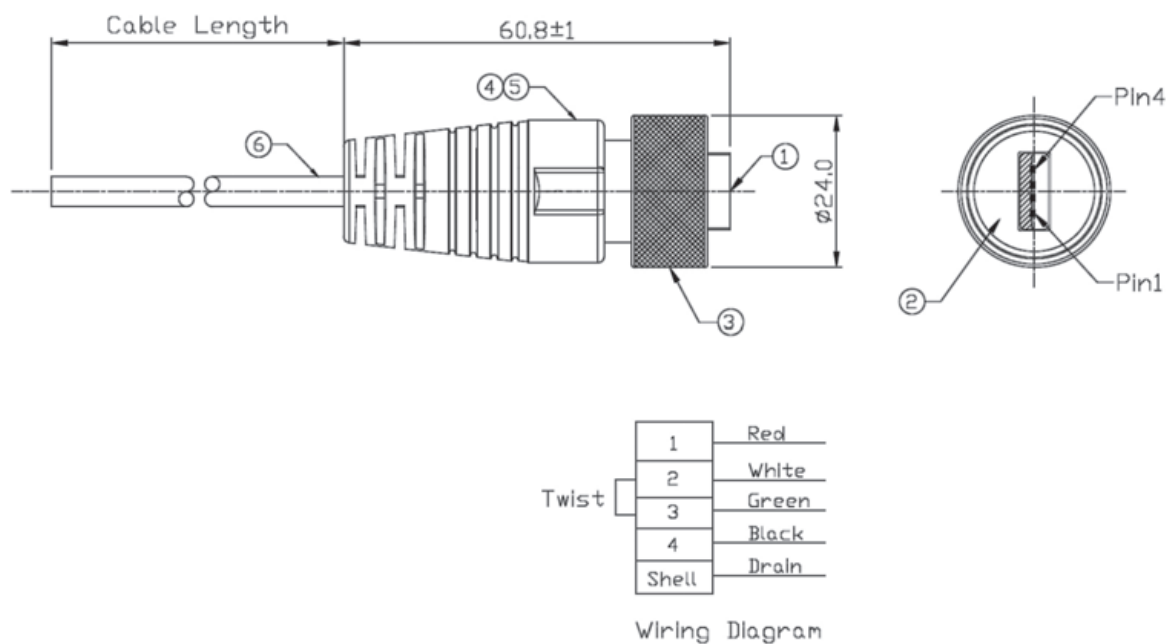
P/N W P U A - 2 0 A M A

WATERPROOF IP67 RATED USB 2.0 A TYPE
4 PIN METAL SCREW CABLE ASSEMBLY PLUG

WATERPROOF CABLE WITH IP68 RATED METAL SCREW USB2.0 A TYPE PLUG TO OPEN END

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UA2M - xx M B
 1 2

1. CABLE ASSEMBLY TYPE:

"UA2M" WATERPROOF IP68 RATED METAL SCREW USB 2.0 A TYPE
4 PIN CABLE END PLUG TO OPEN END

2. CABLE LENGTH IN METERS:

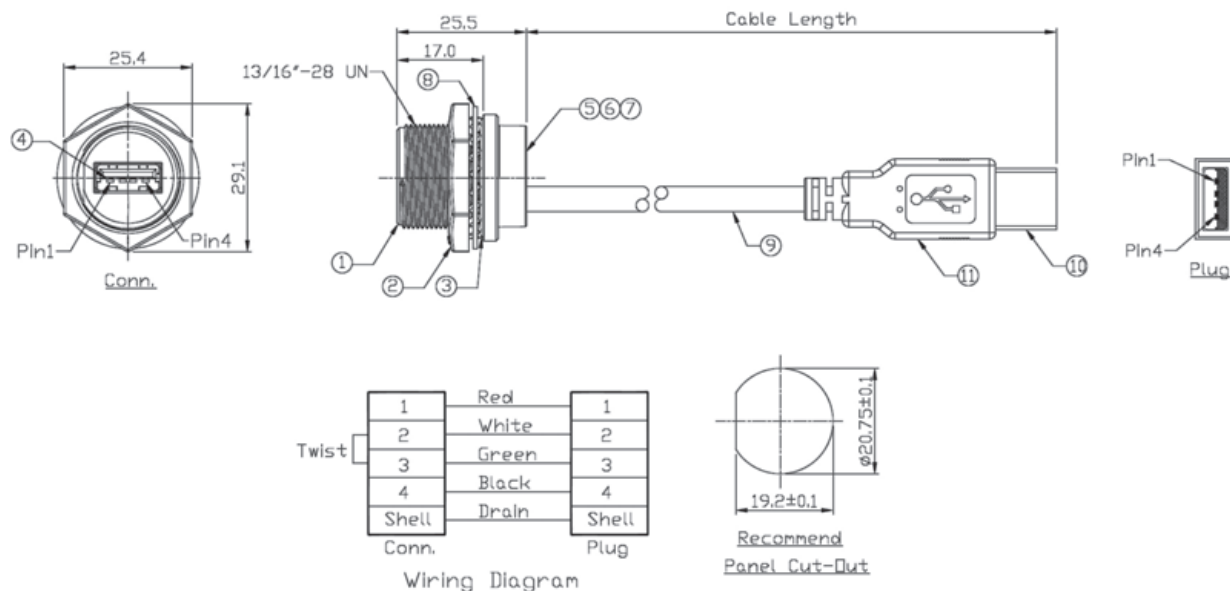
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUA-20AFM

WATERPROOF CABLE WITH IP68 RATED METAL SCREW USB2.0 A TYPE JACK TO USB A TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UA2N - xxMB

1. CABLE ASSEMBLY TYPE:

"UA2N" WATERPROOF IP68 RATED METAL SCREW
USB 2.0 A TYPE 4 PIN PANEL MOUNT JACK
TO NON-WATERPROOF USB A TYPE PLUG

2. CABLE LENGTH IN METERS:

1M, 2M, 2.5M, 3M,...etc.

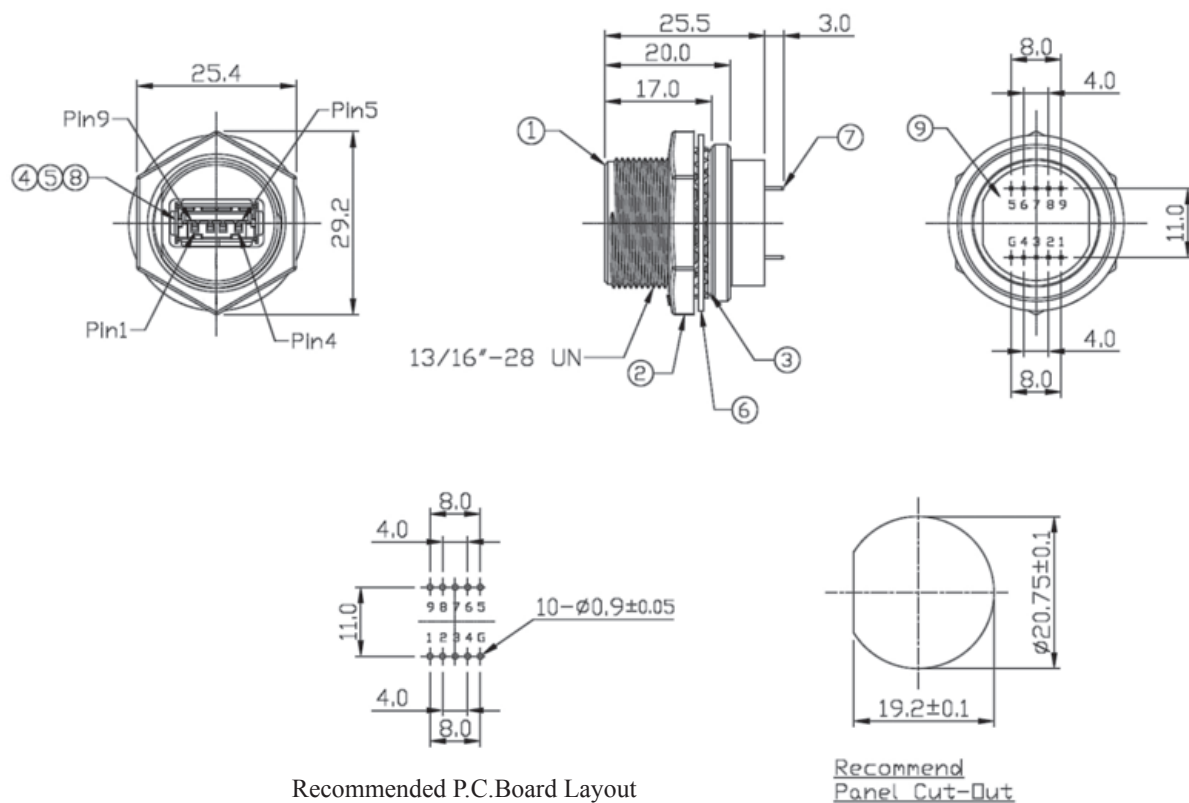
NOTE: MATES WITH CAP P/N WPUA-20CAP3 & WPUA-20CAP4

WATERPROOF IP68 RATED USB 3.0 A TYPE METAL SCREW PANEL MOUNT DIP JACK

RECOMMENDED PANEL THICKNESS 0.8~6.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N W P U A - 3 0 A F M

WATERPROOF IP68 RATED USB 3.0 A TYPE
9 PIN METAL SCREW PANEL MOUNT STRAIGHT
PCB MOUNT FEMALE CONNECTOR

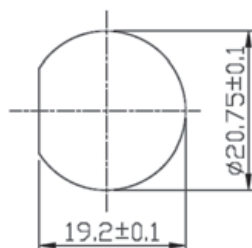
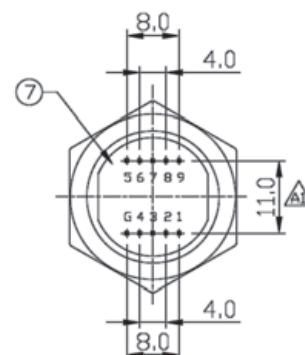
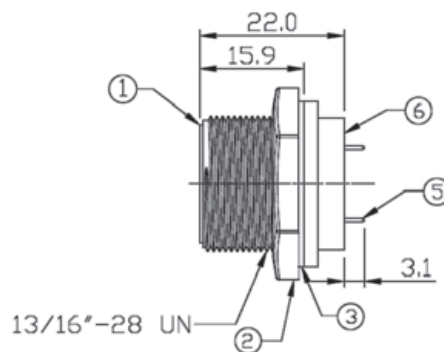
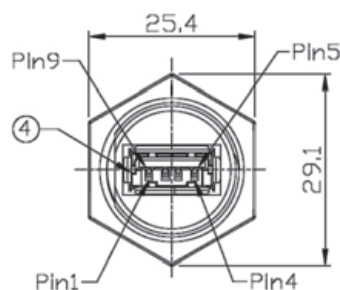
NOTE: MATES WITH CAP P/N WPUA-30CAP3 & WPUA-30CAP4

WATERPROOF IP67 RATED USB 3.0 A TYPE PLASTIC SCREW PANEL MOUNT DIP JACK

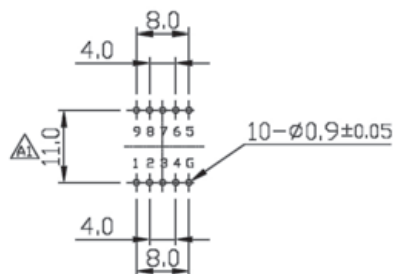
RECOMMENDED PANEL THICKNESS 0.8~6.0MM

*RoHS & REACH compliant.

Unit: mm



Recommend
Panel Cut-Out



Recommended P.C. Board Layout

ORDERING INFORMATION:

P/N W P U A - 3 0 A F P

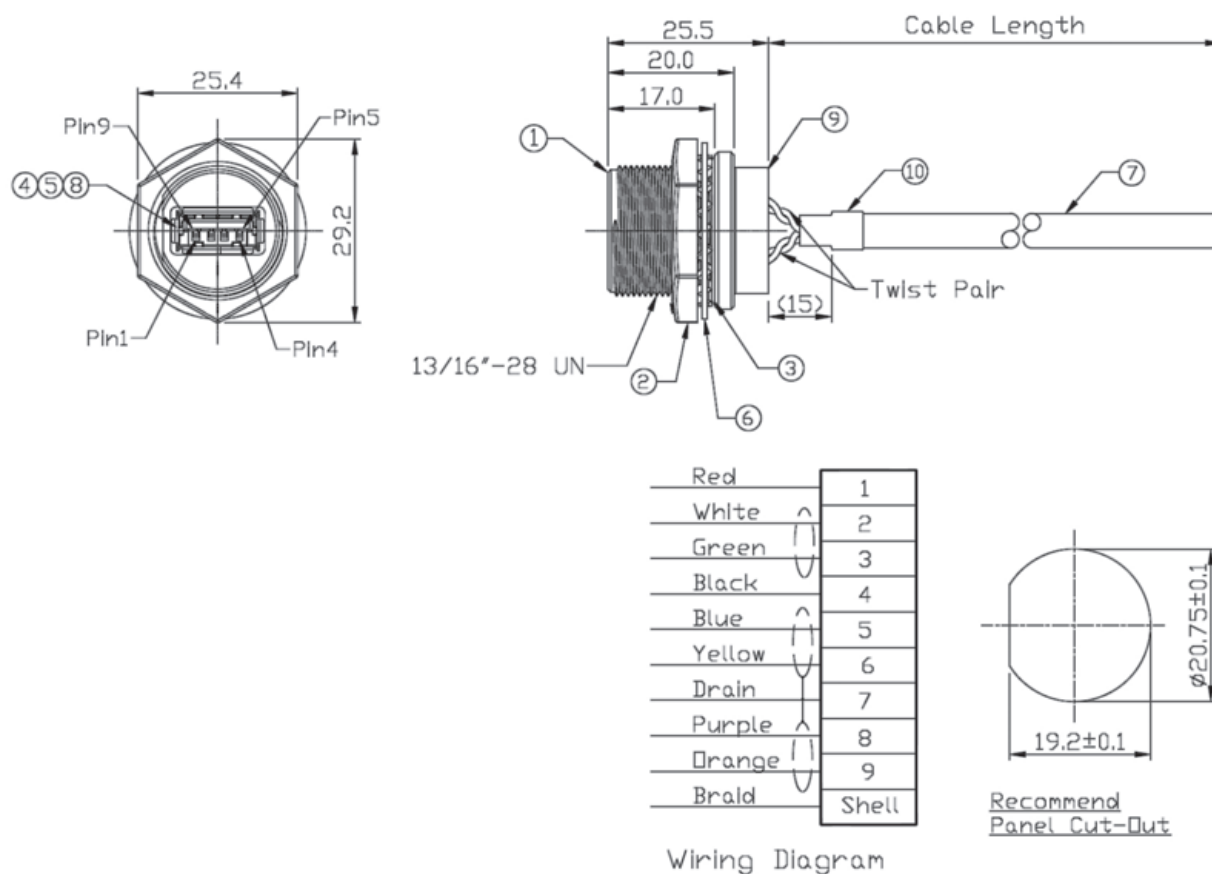
WATERPROOF IP67 RATED USB 3.0 A TYPE
9 PIN PLASTIC SCREW PANEL MOUNT STRAIGHT
PCB MOUNT FEMALE CONNECTOR

NOTE: MATES WITH CAP P/N WPUA-30CAP1 & WPUA-30CAP2

WATERPROOF CABLE WITH IP67 RATED METAL SCREW USB3.0 A TYPE JACK TO OPEN END

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UA3F - xx M B

1. CABLE ASSEMBLY TYPE:

"UA3F" WATERPROOF IP67 RATED METAL SCREW
USB3.0 A TYPE FEMALE CONNECTOR TO OPEN END

2. CABLE LENGTH IN METERS:

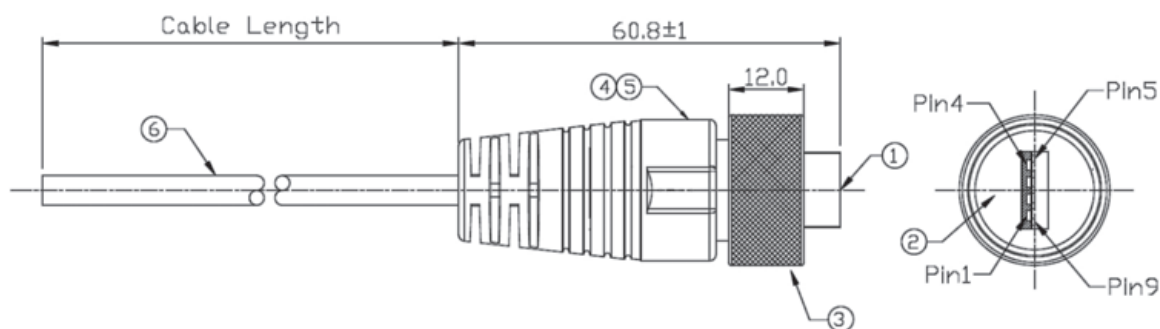
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUA-30CAP3 & WPUA-30CAP4

WATERPROOF CABLE WITH IP67 RATED METAL SCREW USB3.0 A TYPE PLUG TO OPEN END

*RoHS & REACH compliant.

Unit: mm



1	Red
2	White
3	Green
4	Black
5	Blue
6	Yellow
7	Drain
8	Purple
9	Orange
Shell	Braid

Wiring Diagram

ORDERING INFORMATION:

P/N K W P UA3G - xx M B

1. CABLE ASSEMBLY TYPE:

"UA3G" WATERPROOF IP67 RATED METAL SCREW
USB3.0 A TYPE 9 PIN PLUG TO OPEN END

2. CABLE LENGTH IN METERS:

1M, 2M, 2.5M, 3M,...etc.

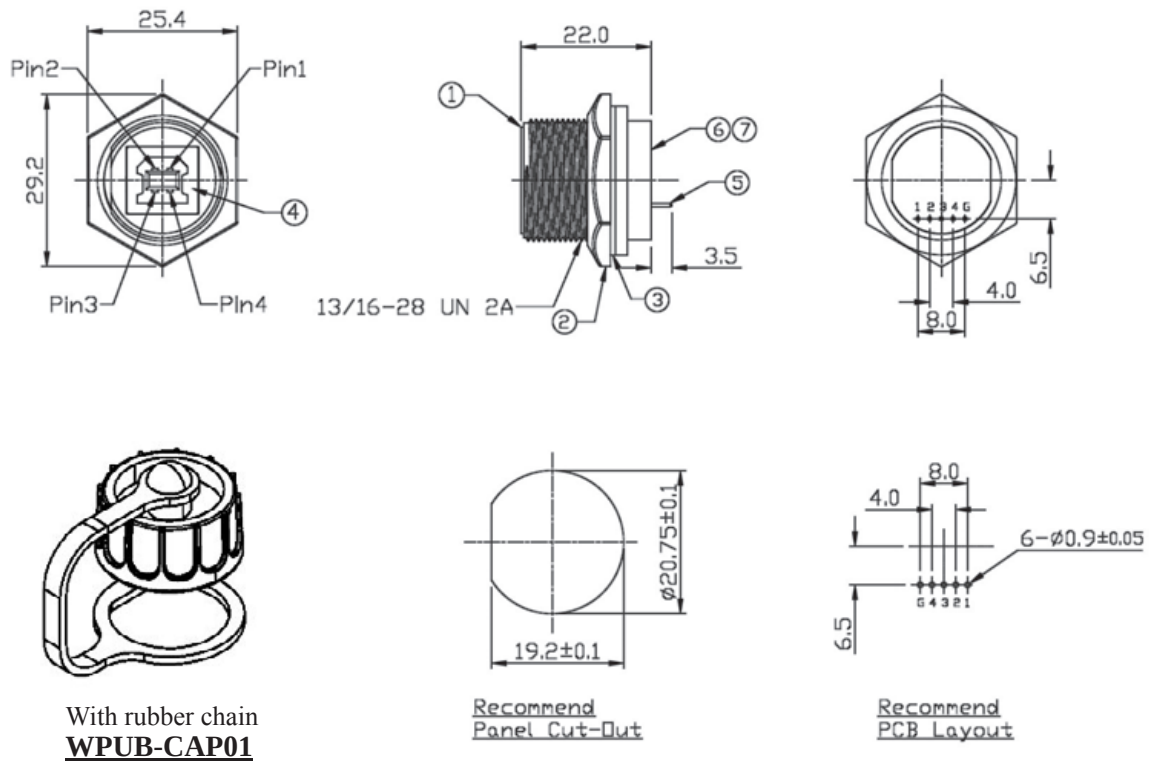
NOTE: MATES WITH JACK P/N WPUA-30AFM

WATERPROOF IP67 RATED PLASTIC LOCK USB B TYPE PANEL MOUNT DIP JACK

RECOMMENDED PANEL THICKNESS 0.8~6.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N WPUB-04F2

WATERPROOF IP67 RATED PLASTIC LOCK USB B TYPE
4 PIN PANEL MOUNT DIP FEMALE CONNECTOR

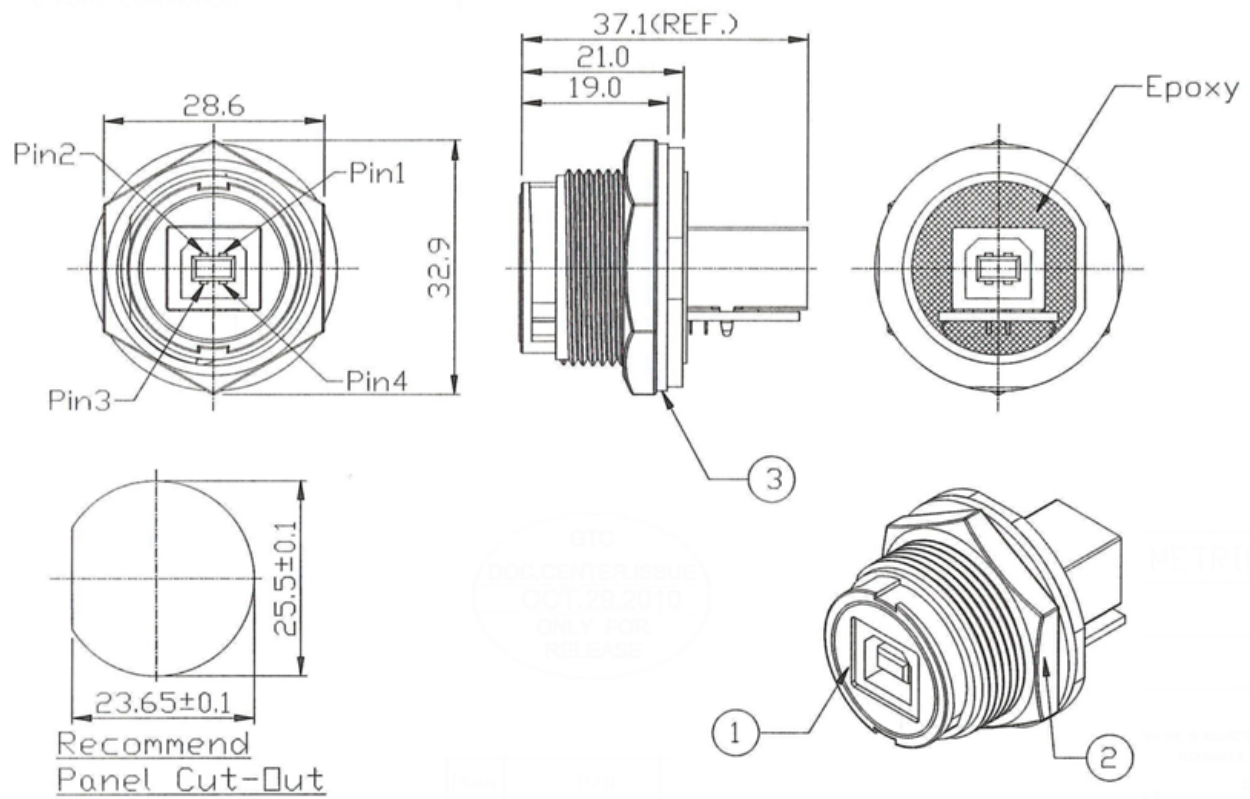
NOTE: MATES WITH WATERPROOF CAP P/N WPUB-CAP01

WATERPROOF IP67 RATED PLASTIC LOCK USB B TYPE RECEPTACLE COUPLER

RECOMMENDED PANEL THICKNESS 0.8~6.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N WPUB - 4 F 4 F

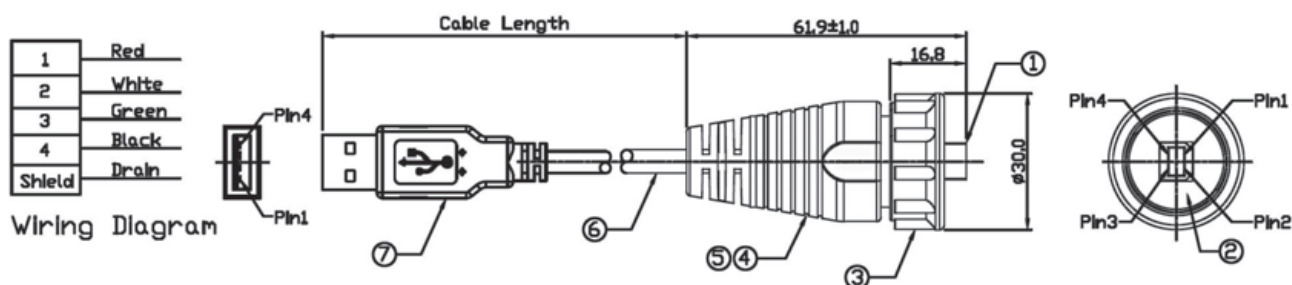
WATERPROOF IP67 RATED PLASTIC LOCK USB B TYPE
4 PIN FEMALE TO FEMALE PANEL MOUNT COUPLER

NOTE: MATES WITH CAP P/N WPUB-CAP03

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK USB B TYPE PLUG TO USB A TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N KWPUB03 - xxMB
 1 2

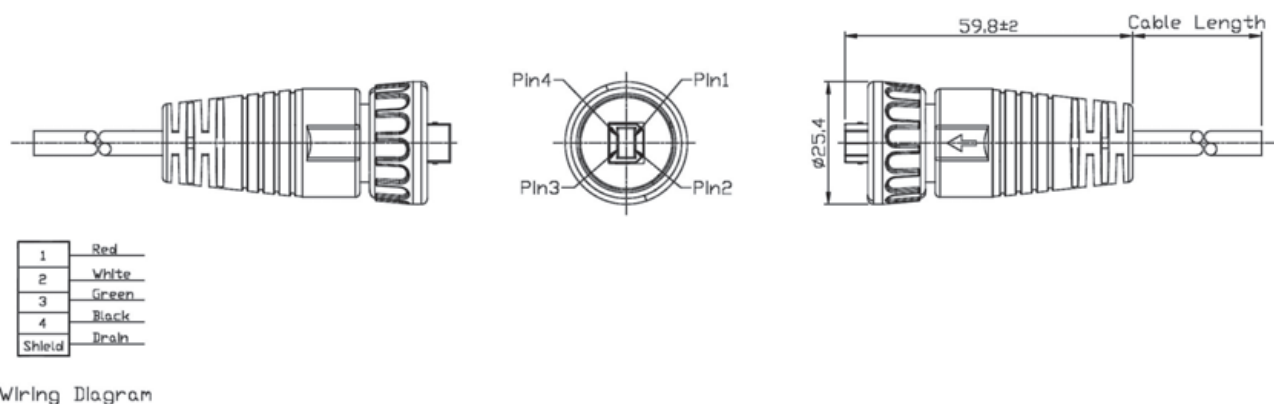
1. CABLE ASSEMBLY TYPE:
"UB03" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
USB B TYPE 4 PIN PLUG TO USB A TYPE 4 PIN PLUG
2. CABLE LENGTH IN METERS:
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUB-04F2 & WPUB-4F4F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK USB B TYPE PLUG TO OPEN END

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UB02 - xx M B
 1 2

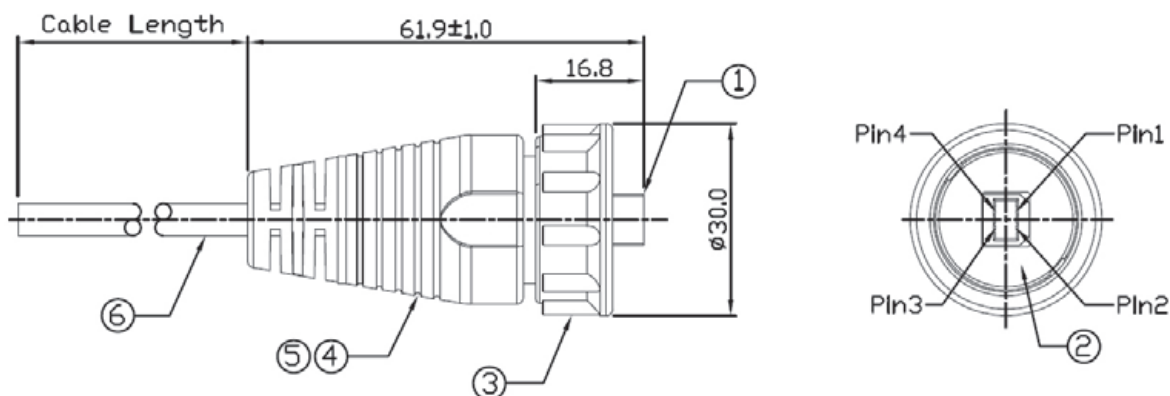
1. CABLE ASSEMBLY TYPE:
"UB02" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
USB B TYPE 4 PIN PLUG TO OPEN END
2. CABLE LENGTH IN METERS:
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUB-04F2 & WPUB-4F4F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK USB B TYPE PLUG TO OPEN END

*RoHS & REACH compliant.

Unit: mm



1	Red
2	White
3	Green
4	Black
Shield	Drain

Wiring Diagram

ORDERING INFORMATION:

P/N K W P UB14 - xx M B

1. CABLE ASSEMBLY TYPE:

"UB14" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
USB B TYPE 4 PIN PLUG TO OPEN END

2. CABLE LENGTH IN METERS:

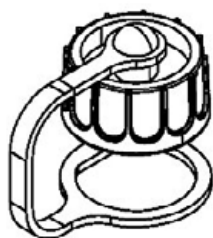
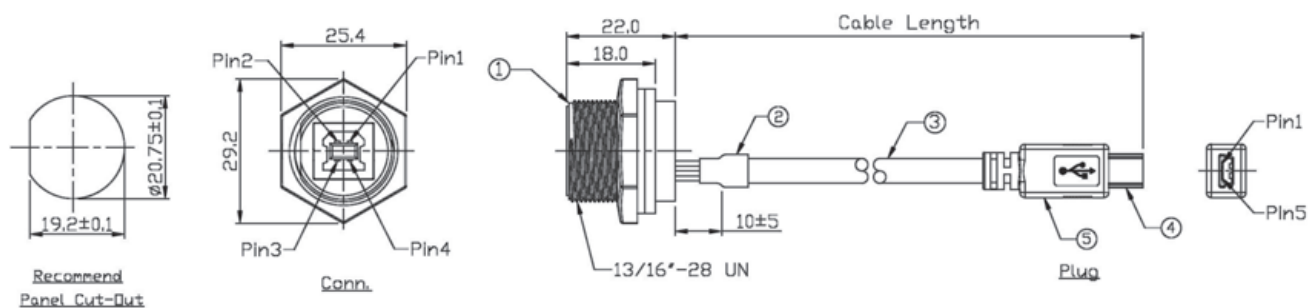
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUB-04F2 & WPUB-4F4F

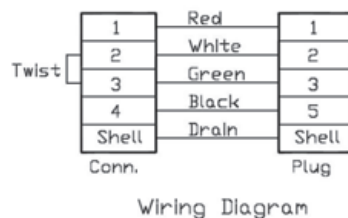
WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK USB B TYPE PANEL MOUNT JACK TO MINI USB B TYPE PLUG

NOTES:

1. Waterproof Rate: IP67
 2. Recommend Panel Thickness: 0.8 to 6.0 mm
 3. Recommend Torque: 6~7 Kgf-cm
 4. Mating Cap P/N: WPUB-CAP01 & WPUB-CAP02
 5. RoHS & REACH compliance
- *Unit: mm



With rubber chain
WPUB-CAP01
WPUB-CAP02



ORDERING INFORMATION:

P/N K W P U B 0 1 - x x M B
 1 2

1. CABLE ASSEMBLY TYPE:
 "UB01" WATERPROOF IP67 RATED PLASTIC LOCK USB B TYPE 4 PIN
 PANEL MOUNT JACK TO MINI USB B TYPE 5 PIN PLUG
2. CABLE LENGTH IN METERS:
 1M, 2M, 2.5M, 3M,...etc.

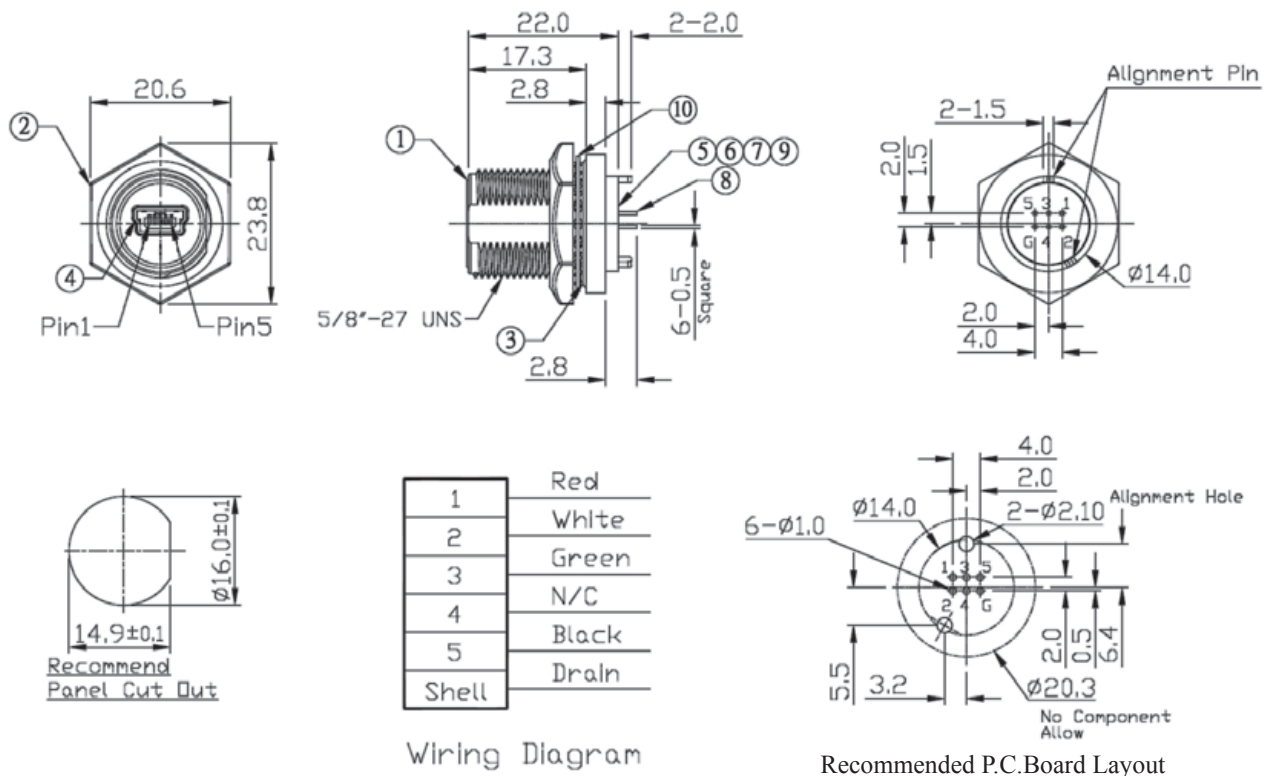
NOTE: MATES WITH CAP P/N WPUB-CAP01 & WPUB-CAP02

WATERPROOF IP68 RATED MINI USB B TYPE PANEL MOUNT JACK METAL SCREW TYPE

RECOMMENDED PANEL THICKNESS 0.8~8.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N WPUM - 05 F 1

WATERPROOF IP68 RATED METAL SCREW MINI USB
B TYPE 5 PIN PANEL MOUNT JACK

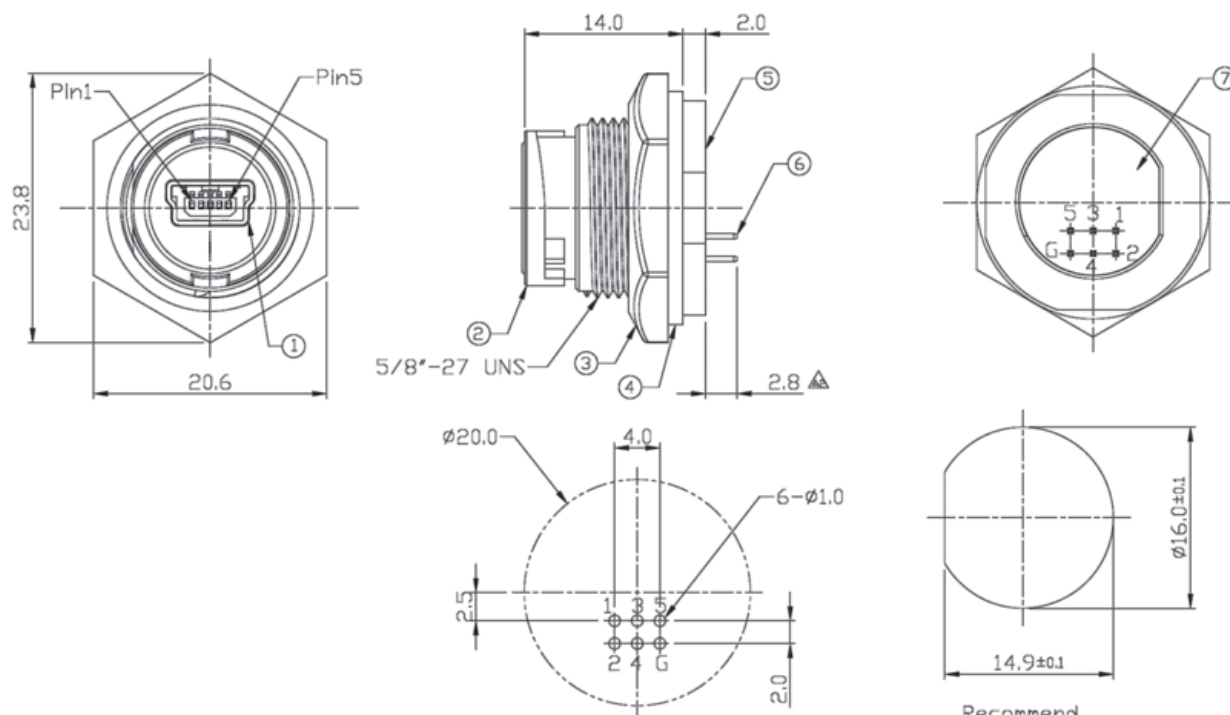
NOTE: MATES WITH CAP P/N WPUM-CAP05 & WPUM-CAP06

WATERPROOF IP67 RATED MINI USB B TYPE PANEL MOUNT JACK PLASTIC LOCK TYPE

RECOMMENDED PANEL THICKNESS 0.8~3.0MM

*RoHS & REACH compliant.

Unit: mm



Recommended P.C.Board Layout

Recommend
Panel Cut-Out

ORDERING INFORMATION:

P/N WPUM - 05 F 2

WATERPROOF IP67 RATED PLASTIC LOCK MINI USB
B TYPE 5 PIN PANEL MOUNT JACK

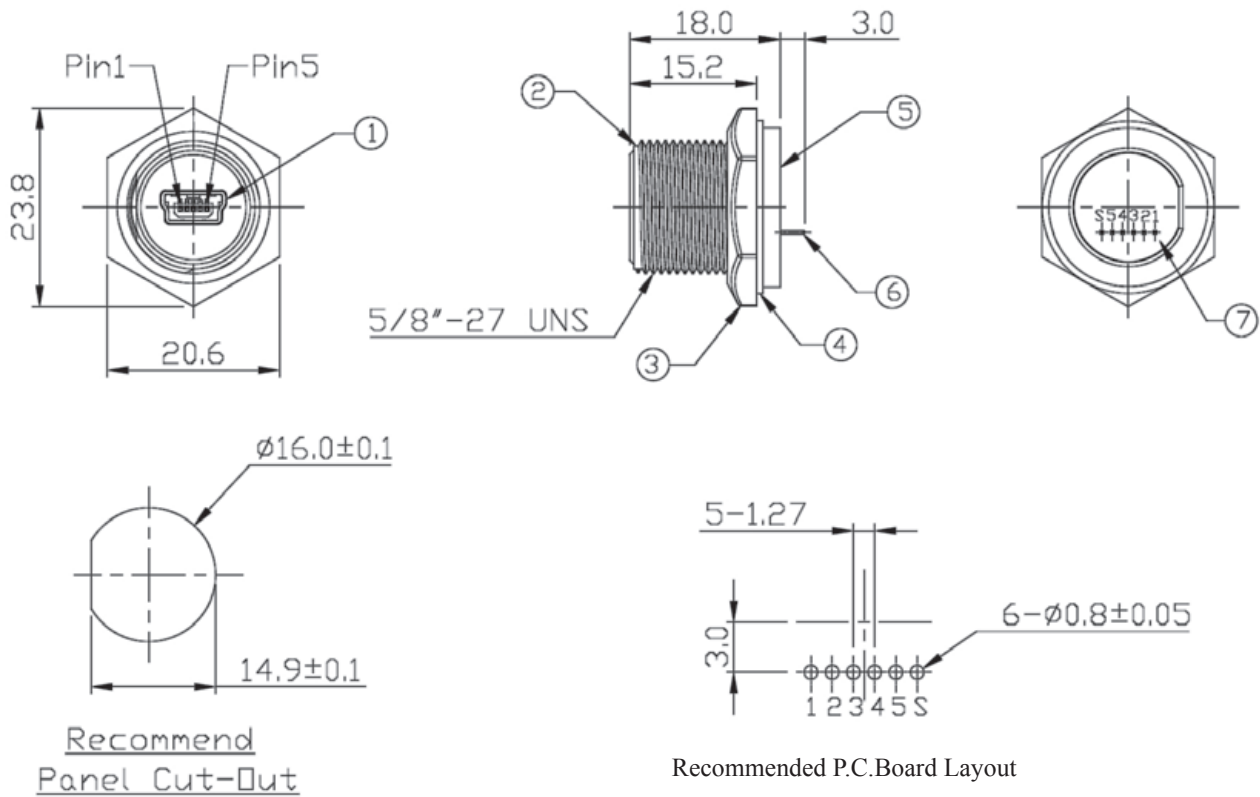
NOTE: MATES WITH CAP P/N WPUM-CAP02

WATERPROOF IP67 RATED MINI USB B TYPE PANEL MOUNT DIP JACK PLASTIC SCREW TYPE

RECOMMENDED PANEL THICKNESS 0.8~6.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N WPUM - 05 F 3

WATERPROOF IP67 RATED PLASTIC SCREW MINI USB
B TYPE 5 PIN JACK PANEL MOUNT DIP TYPE

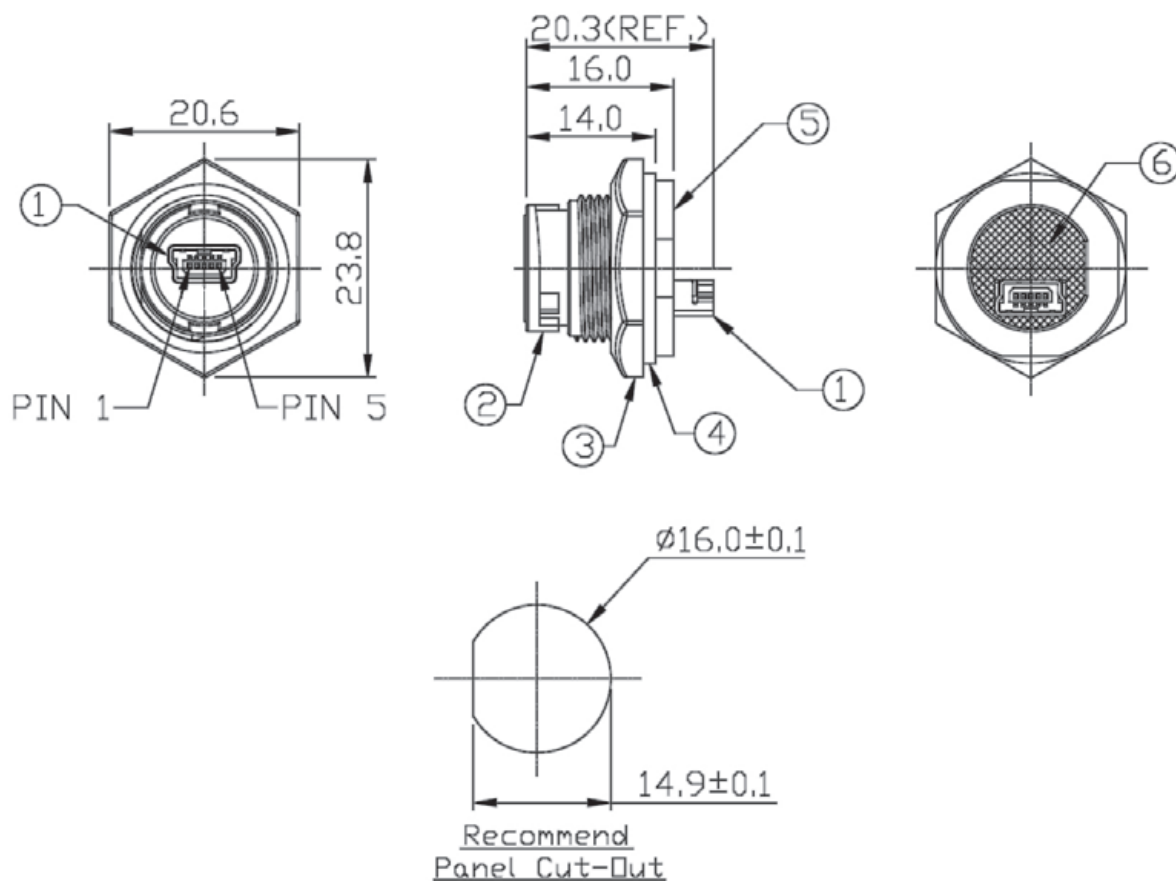
NOTE: MATES WITH CAP P/N WPUM-CAP05

WATERPROOF IP67 RATED MINI USB B TYPE FEMALE TO FEMALE PANEL MOUNT COUPLER PLASTIC LOCK TYPE

RECOMMENDED PANEL THICKNESS 0.8~3.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N WPUM - 5 F 5 F

WATERPROOF IP67 RATED PLASTIC LOCK MINI USB
B TYPE 5 PIN FEMALE TO FEMALE PANEL MOUNT COUPLER

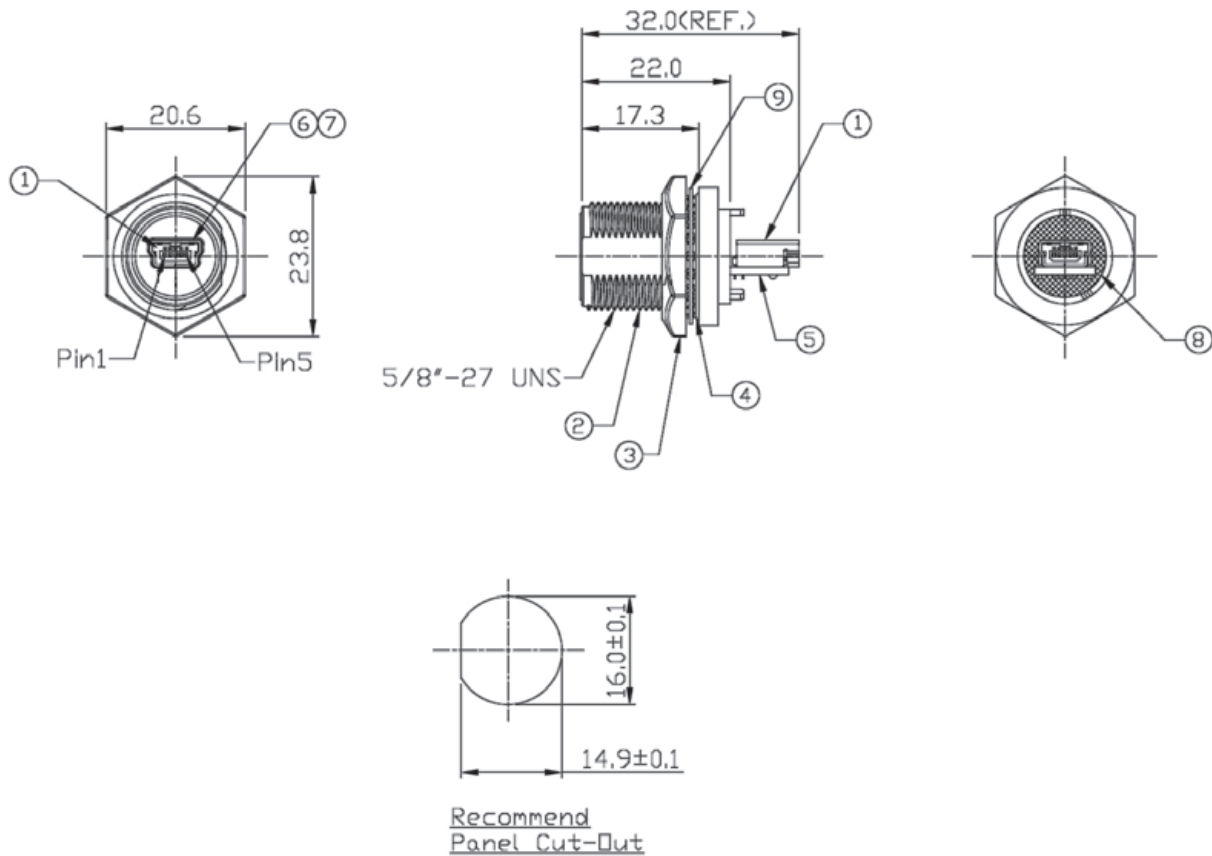
NOTE: MATES WITH CAP P/N WPUM-CAP02

WATERPROOF IP68 RATED MINI USB B TYPE FEMALE TO FEMALE PANEL MOUNT COUPLER METAL SCREW TYPE

RECOMMENDED PANEL THICKNESS 0.8~8.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N WPUM - 5 G 5 G

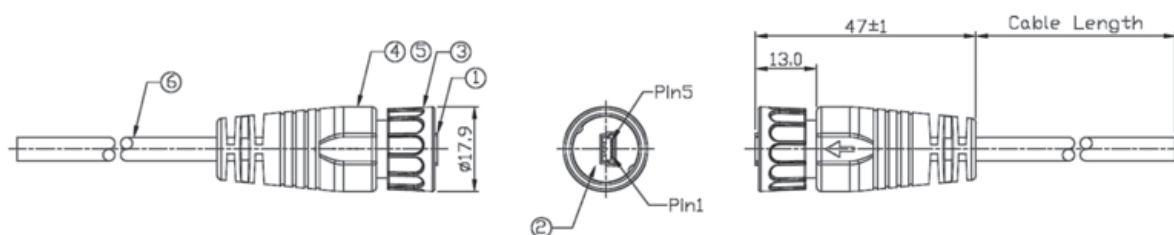
WATERPROOF IP68 RATED METAL SCREW MINI USB
B TYPE 5 PIN FEMALE TO FEMALE PANEL MOUNT COUPLER

NOTE: MATES WITH CAP P/N WPUM-CAP05 & WPUM-CAP06

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK MINI USB B TYPE PLUG TO OPEN END

*RoHS & REACH compliant.

Unit: mm



1	Red
2	White
3	Green
4	N/C
5	Black
Shell	Drain

Wiring Diagram

ORDERING INFORMATION:

P/N K W P UM11 - xx M B

1. CABLE ASSEMBLY TYPE:

"UM11" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
MINI USB B TYPE 5 PIN PLUG TO OPEN END

2. CABLE LENGTH IN METERS:

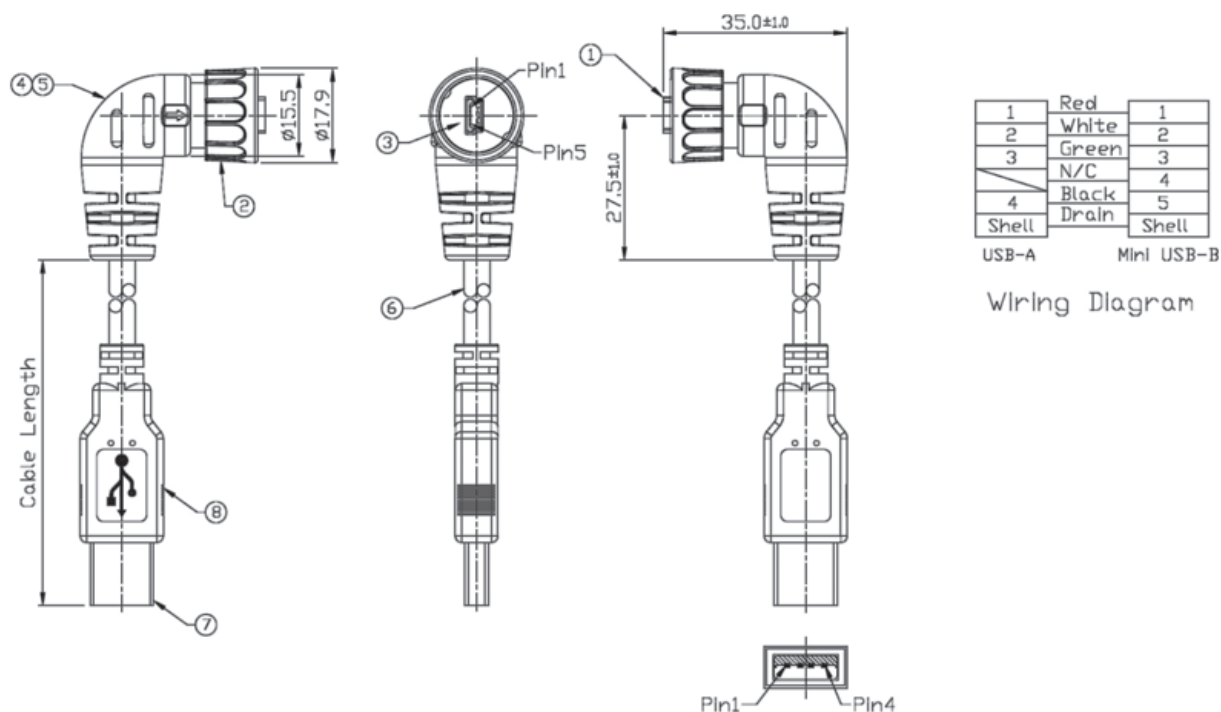
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUM-05F2 & WPUM-5F5F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK RIGHT ANGLE MINI USB B TYPE PLUG TO USB A TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N KWPUM15 - 1 2 MB

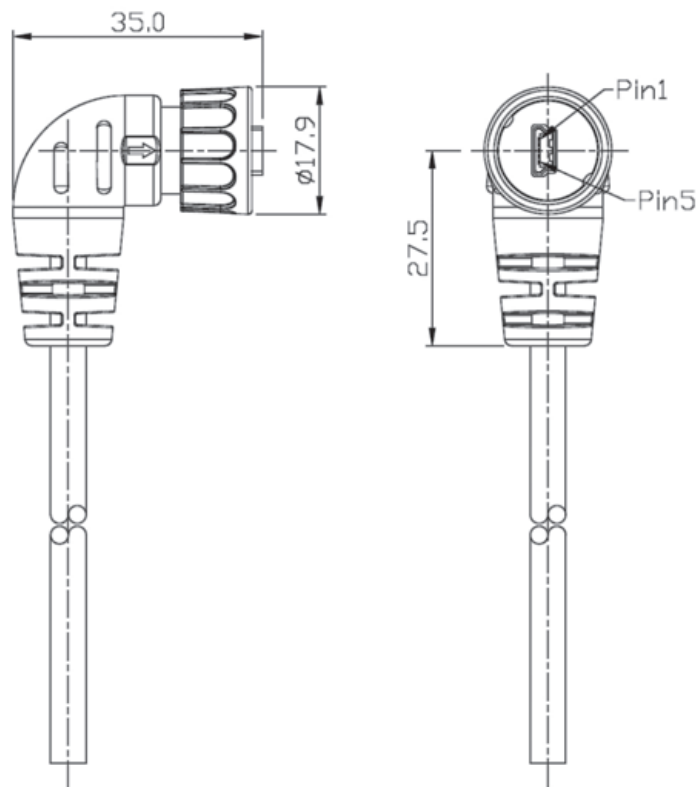
- CABLE ASSEMBLY TYPE:
"UM15" WATERPROOF IP67 RATED PLASTIC LOCK
OVER-MOLDED RIGHT ANGLE MINI USB B
TYPE 5 PIN PLUG TO USB A TYPE PLUG
- CABLE LENGTH IN METERS:
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUM-05F2 & WPUM-5F5F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK RIGHT ANGLE MINI USB B TYPE PLUG TO OPEN END

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UM14 - xx M B
1 2

1. CABLE ASSEMBLY TYPE:

"UM14" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
RIGHT ANGLE MINI USB B TYPE 5 PIN PLUG TO OPEN END

2. CABLE LENGTH IN METERS:

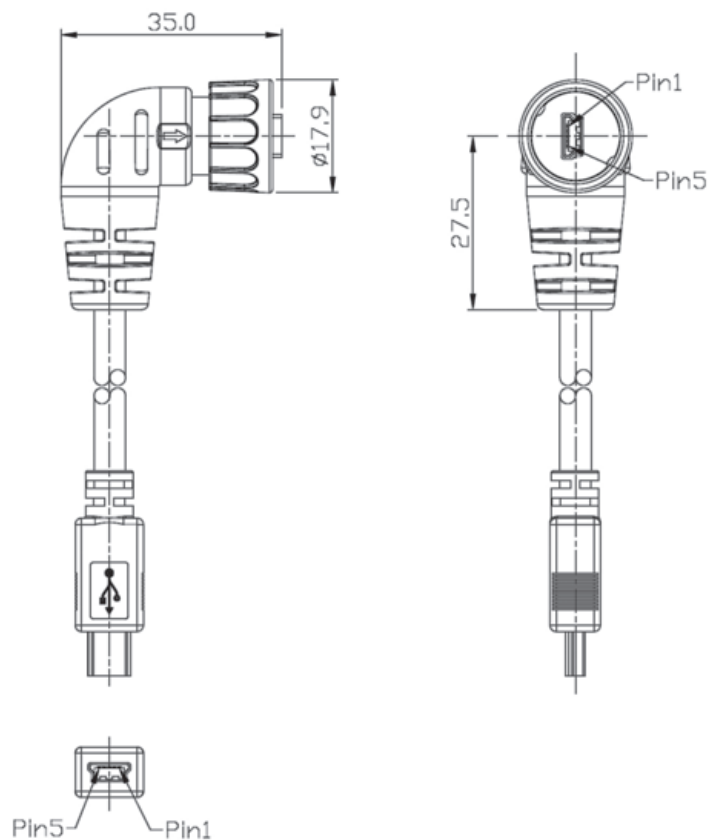
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUM-05F2 & WPUM-5F5F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK RIGHT ANGLE MINI USB B TYPE PLUG TO MINI USB B TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P U M 1 6 - x x M B

1. CABLE ASSEMBLY TYPE:

"UM16" WATERPROOF IP67 RATED PLASTIC LOCK
OVER-MOLDED RIGHT ANGLE MINI USB B
TYPE 5 PIN PLUG TO MINI USB B TYPE PLUG

2. CABLE LENGTH IN METERS:

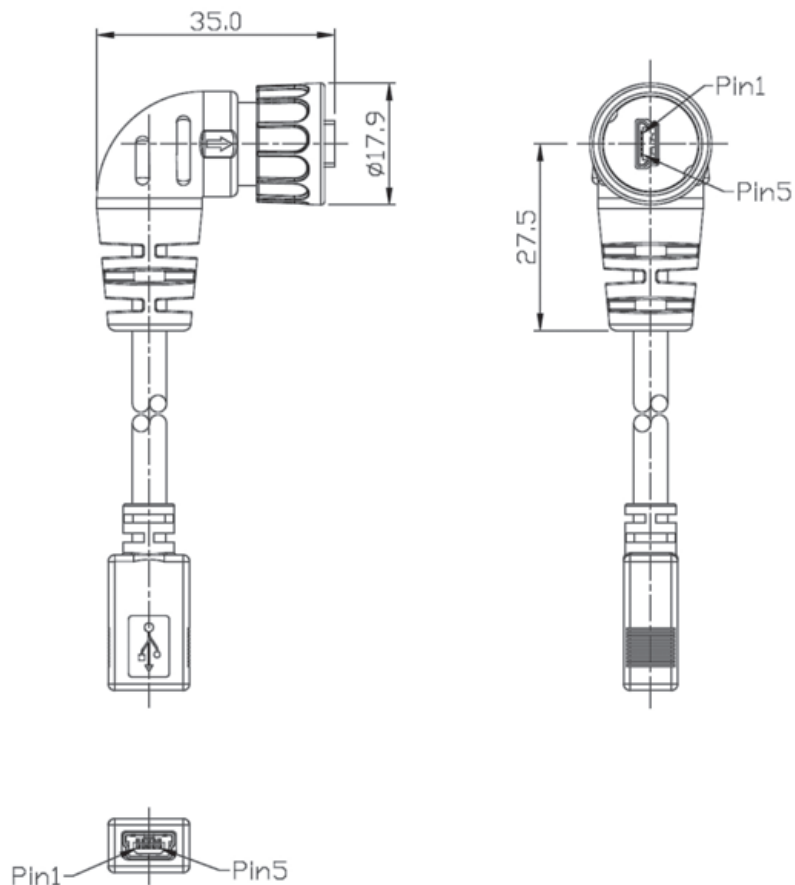
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUM-05F2 & WPUM-5F5F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK RIGHT ANGLE MINI USB B TYPE PLUG TO MINI USB B TYPE JACK

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UM17 - xx M B
1 2

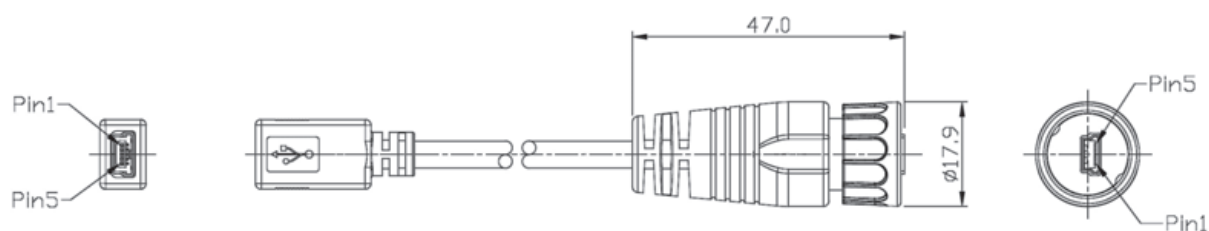
1. CABLE ASSEMBLY TYPE:
"UM17" WATERPROOF IP67 RATED PLASTIC LOCK
OVER-MOLDED RIGHT ANGLE MINI USB B
TYPE 5 PIN PLUG TO MINI USB B TYPE JACK
2. CABLE LENGTH IN METERS:
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUM-05F2 & WPUM-5F5F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK MINI USB B TYPE PLUG TO MINI USB B TYPE JACK

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P U M 1 2 - x x M B

1. CABLE ASSEMBLY TYPE:

"UM12" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
MINI USB B TYPE 5 PIN PLUG TO MINI USB B TYPE 5 PIN JACK

2. CABLE LENGTH IN METERS:

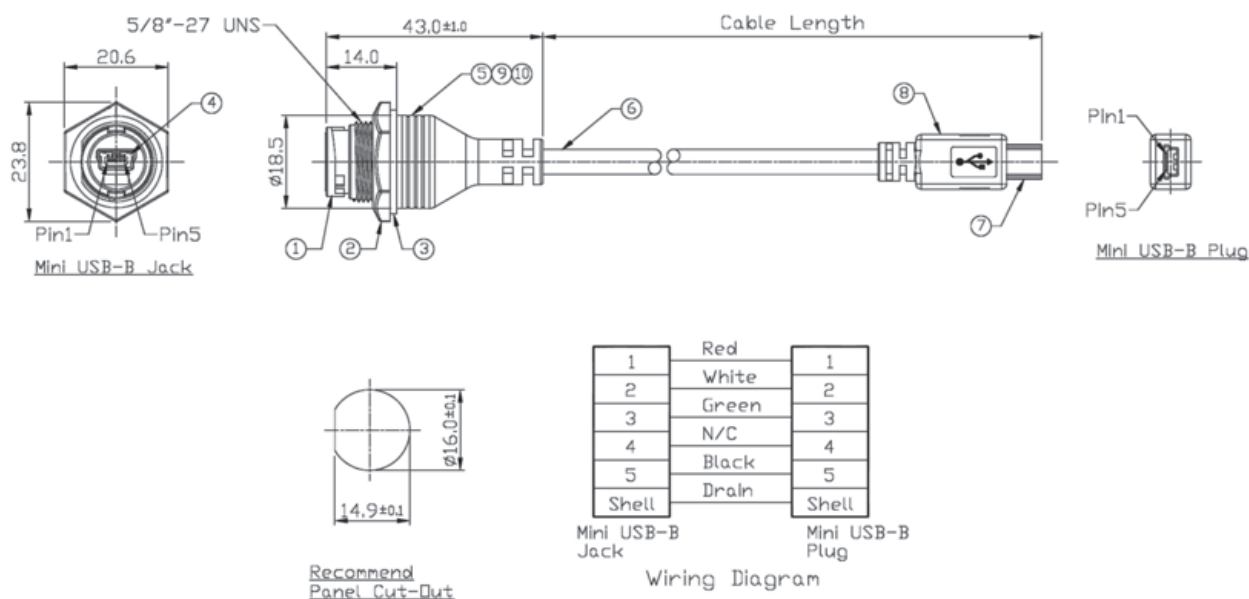
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUM-05F2 & WPUM-5F5F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK MINI USB B TYPE JACK TO MINI USB B TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N KWPUM10 - x₁ x₂ MB

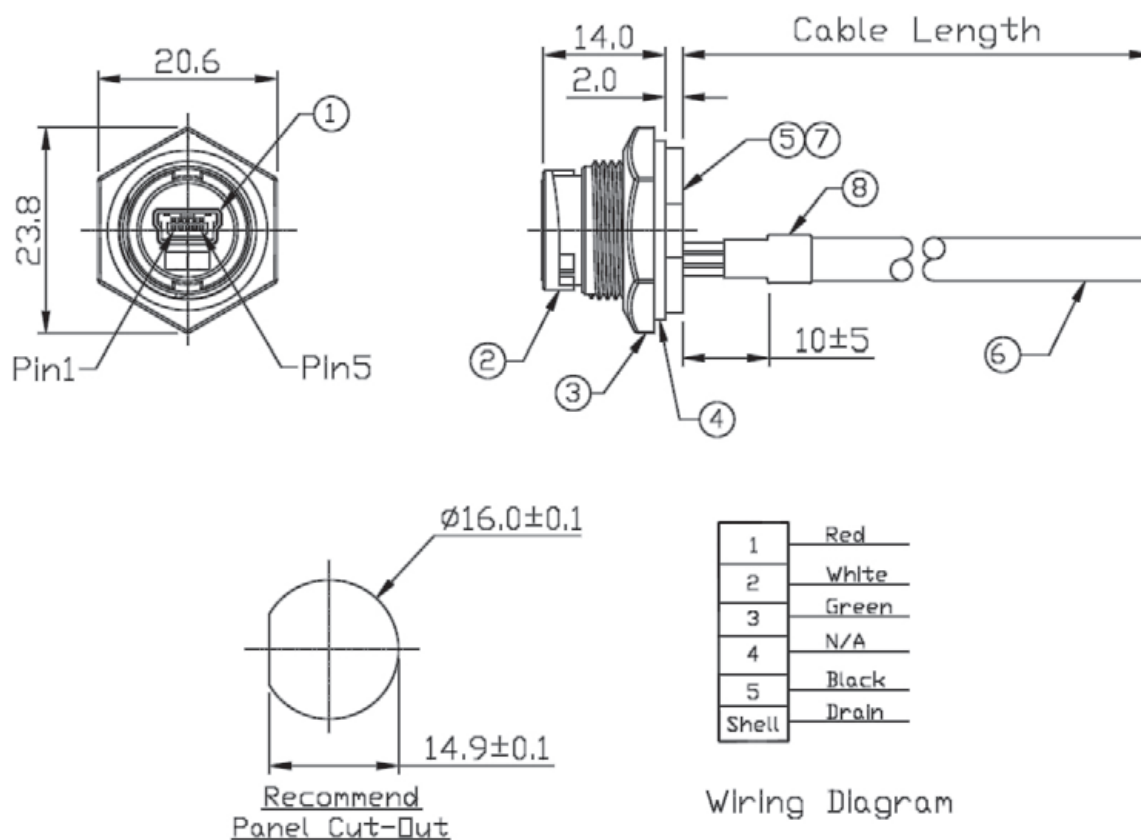
- CABLE ASSEMBLY TYPE:
"UM10" WATERPROOF IP67 RATED PLASTIC LOCK
OVER-MOLDED MINI USB B TYPE 5 PIN PANEL
MOUNT JACK TO MINI USB B TYPE PLUG
- CABLE LENGTH IN METERS:
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUM-CAP02

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK MINI USB B TYPE PANEL MOUNT JACK TO OPEN END

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UM18 - xx M B

1. CABLE ASSEMBLY TYPE:

"UM18" WATERPROOF IP67 RATED PLASTIC LOCK MINI USB B TYPE
5 PIN PANEL MOUNT JACK TO OPEN END

2. CABLE LENGTH IN METERS:

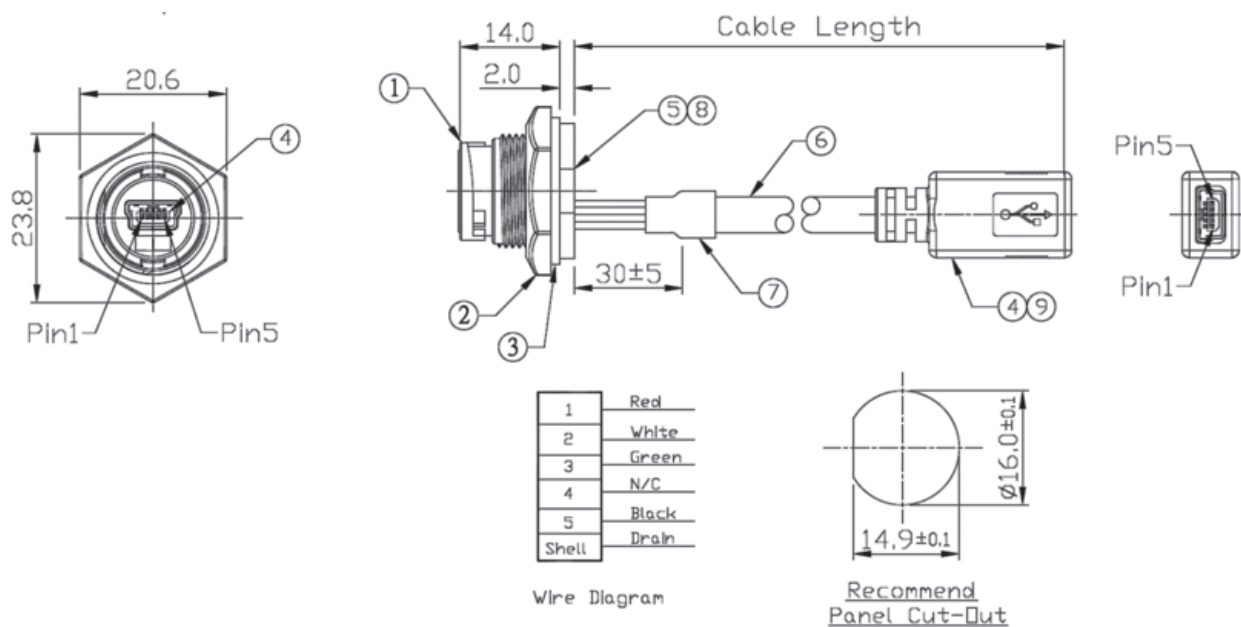
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUM-CAP03

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK MINI USB B TYPE PANEL MOUNT JACK TO MINI USB B TYPE JACK

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N KWPUM20 - xxMB

1. CABLE ASSEMBLY TYPE:

"UM20" WATERPROOF IP67 RATED PLASTIC LOCK MINI USB B TYPE
5 PIN PANEL MOUNT JACK TO MINI USB B TYPE JACK

2. CABLE LENGTH IN METERS:

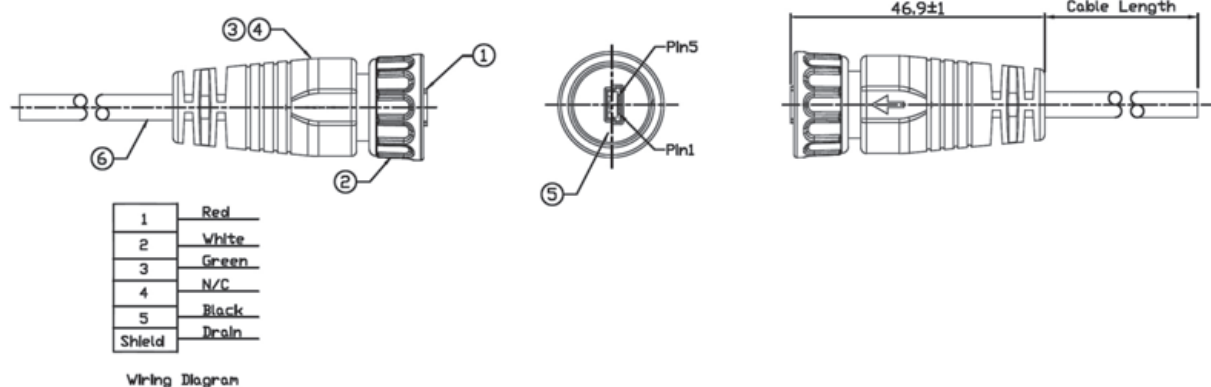
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUM-CAP02

WATERPROOF CABLE WITH IP68 RATED METAL SCREW MINI USB B TYPE PLUG TO OPEN END

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UM 25 - x x M B
 1 2

1. CABLE ASSEMBLY TYPE:

"UM25" WATERPROOF IP68 RATED METAL SCREW OVER-MOLDED
MINI USB B TYPE 5 PIN PLUG TO OPEN END

2. CABLE LENGTH IN METERS:

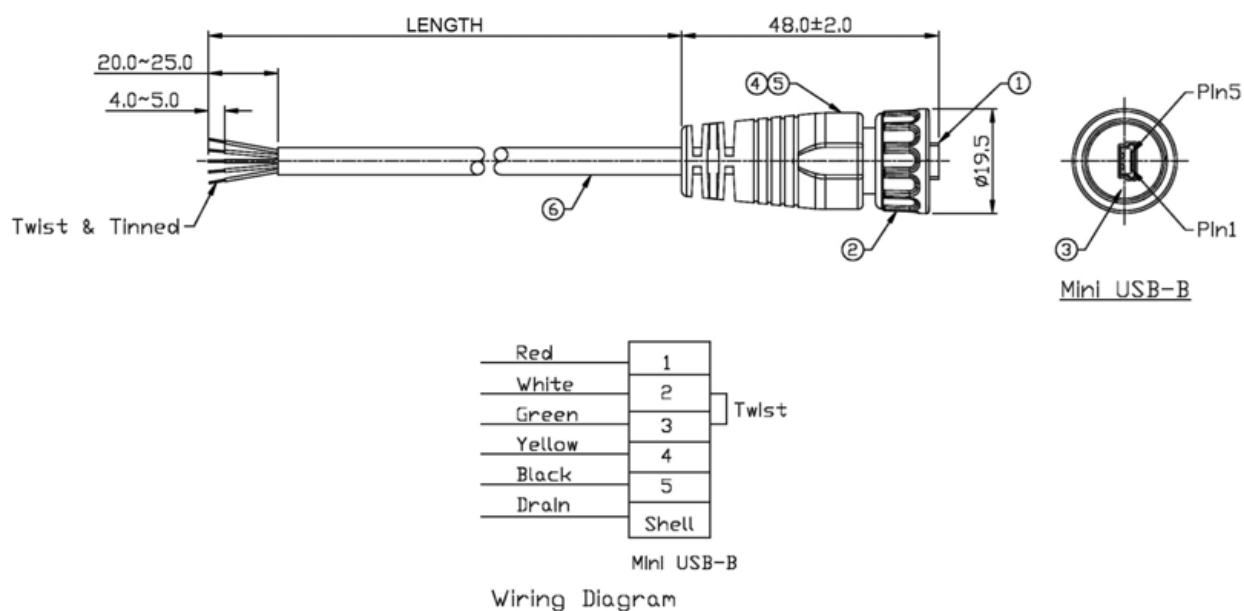
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUM-05F1 & WPUM-5G5G

WATERPROOF CABLE WITH IP68 RATED METAL SCREW MINI USB B TYPE PLUG TO TINNED END

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N KWPUM01 - 1 - 2 MB

1. CABLE ASSEMBLY TYPE:

"UM01" WATERPROOF IP68 RATED METAL SCREW OVER-MOLDED
MINI USB B TYPE 5 PIN PLUG TO 4~5MM TINNED END

2. CABLE LENGTH IN METERS:

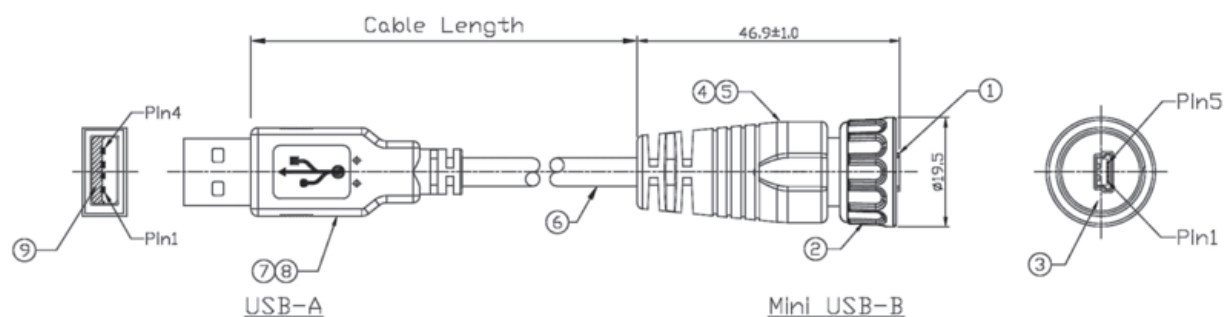
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUM-05F1 & WPUM-5G5G

WATERPROOF CABLE WITH IP68 RATED METAL SCREW MINI USB B TYPE PLUG TO USB A TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



1	Red	24AWG	1
2	White	28AWG	2
3	Green	28AWG	3
	N/C		4
4	Black	24AWG	5
Shell	Drain		Shell
USB-A			Mini USB-B

Wiring Diagram

ORDERING INFORMATION:

P/N KWPUM 26 - xx MB
 1 2

1. CABLE ASSEMBLY TYPE:

"UM26" WATERPROOF IP68 RATED METAL SCREW OVER-MOLDED
MINI USB B TYPE 5 PIN PLUG TO USB A TYPE PLUG

2. CABLE LENGTH IN METERS:

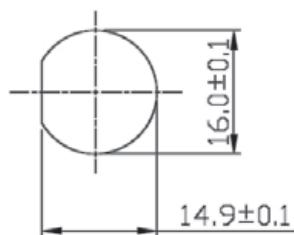
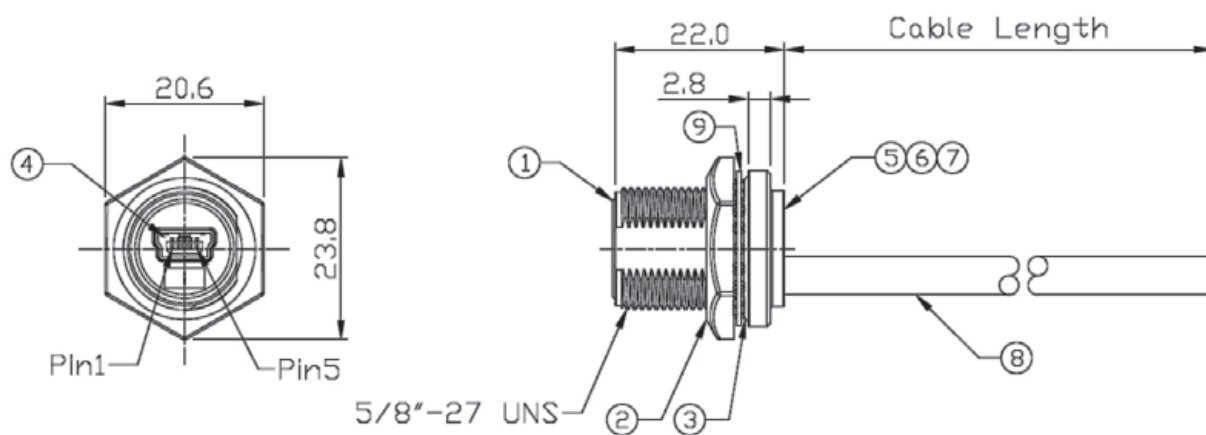
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUM-05F1 & WPUM-5G5G

WATERPROOF CABLE WITH IP68 RATED METAL SCREW MINI USB B TYPE PANEL MOUNT JACK TO OPEN END

*RoHS & REACH compliant.

Unit: mm



Recommend
Panel Cut-Out

1	Red
2	White
3	Green
4	N/C
5	Black
Shell	Drain

Wiring Diagram

ORDERING INFORMATION:

P/N KWPUM21 - xxMB
 1 2

1. CABLE ASSEMBLY TYPE:

"UM21" WATERPROOF IP68 RATED METAL SCREW MINI USB B TYPE
5 PIN PANEL MOUNT JACK TO OPEN END

2. CABLE LENGTH IN METERS:

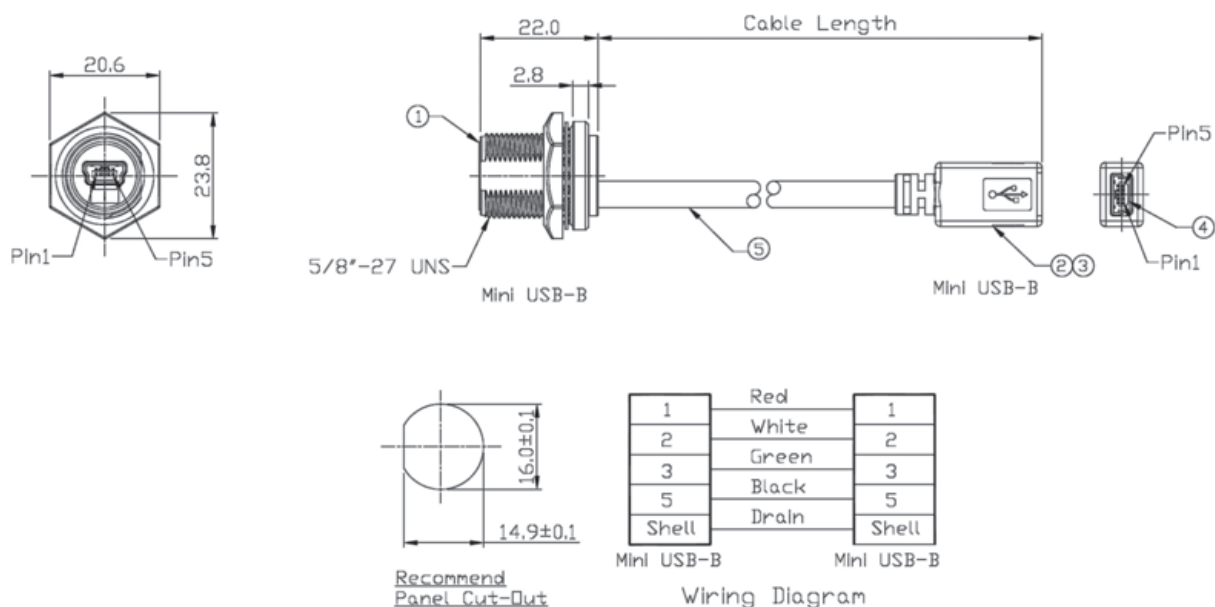
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUM-CAP05 & WPUM-CAP06

WATERPROOF CABLE WITH IP68 RATED METAL SCREW MINI USB B TYPE PANEL MOUNT JACK TO MINI USB B TYPE JACK

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UM 2 3 - x x M B

1. CABLE ASSEMBLY TYPE:

"UM23" WATERPROOF IP68 RATED METAL SCREW MINI USB B TYPE
5 PIN PANEL MOUNT JACK TO MINI USB B TYPE JACK

2. CABLE LENGTH IN METERS:

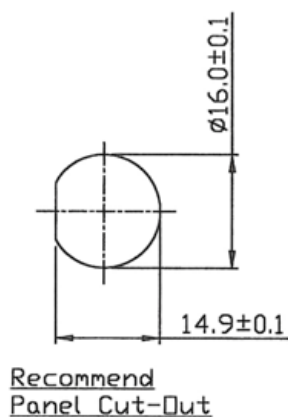
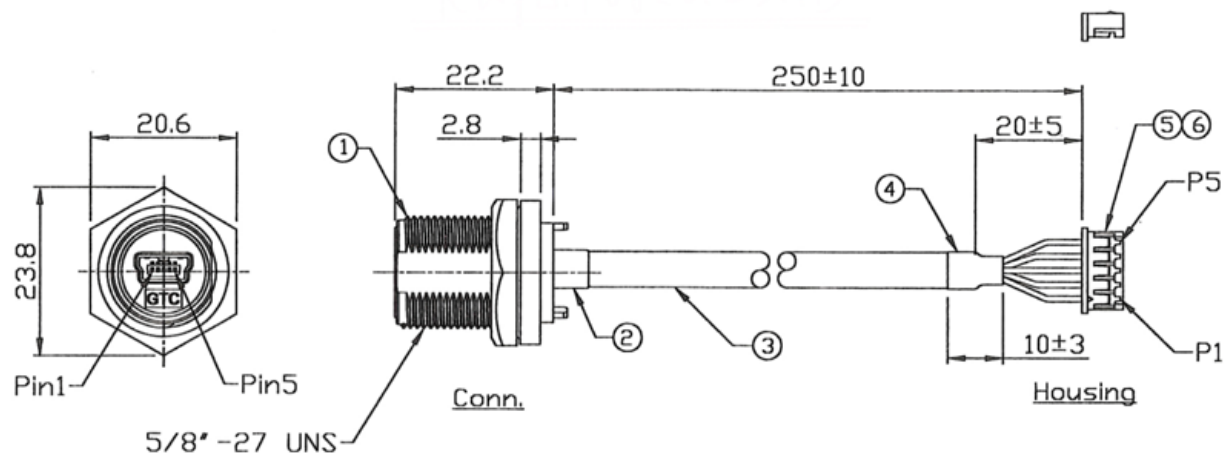
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUM-CAP05 & WPUM-CAP06

WATERPROOF CABLE WITH IP68 RATED METAL SCREW MINI USB B TYPE PANEL MOUNT JACK TO 2.00MM PITCH 5 PIN HOUSING

*RoHS & REACH compliant.

Unit: mm



1	Red	1
2	White	2
3	Green	3
5	Black	4
		5
Conn.	N.C	Housing

Wiring Diagram

ORDERING INFORMATION:

P/N KWPUM08 - xxMB
1 2

1. CABLE ASSEMBLY TYPE:

"UM08" WATERPROOF IP68 RATED METAL SCREW
MINI USB B TYPE 5 PIN PANEL MOUNT JACK
TO 2.00MM PITCH MX TYPE 5 PIN HOUSING

2. CABLE LENGTH IN METERS:

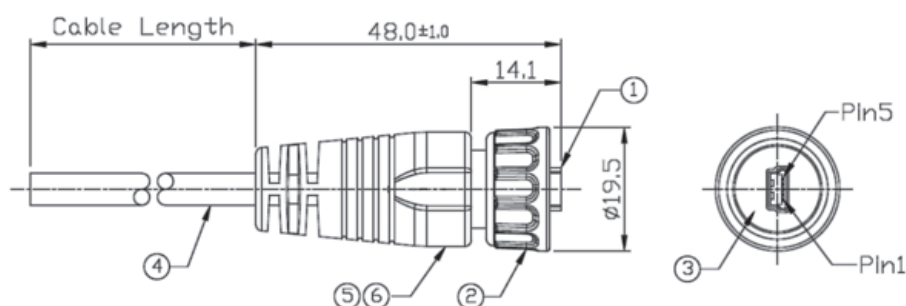
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUM-CAP05 & WPUM-CAP06

WATERPROOF CABLE AWG24+AWG24 WITH IP67 RATED PLASTIC SCREW MINI USB B TYPE PLUG TO OPEN END

*RoHS & REACH compliant.

Unit: mm



1	Red
2	White
3	Green
4	N/C
5	Black
Shell	Drain

Wiring Diagram

ORDERING INFORMATION:

P/N KWPUM 28 - xx MB
1 2

1. CABLE ASSEMBLY TYPE:

"UM28" WATERPROOF IP67 RATED PLASTIC SCREW OVER-MOLDED
MINI USB B TYPE 5 PIN PLUG TO OPEN END

2. CABLE LENGTH IN METERS:

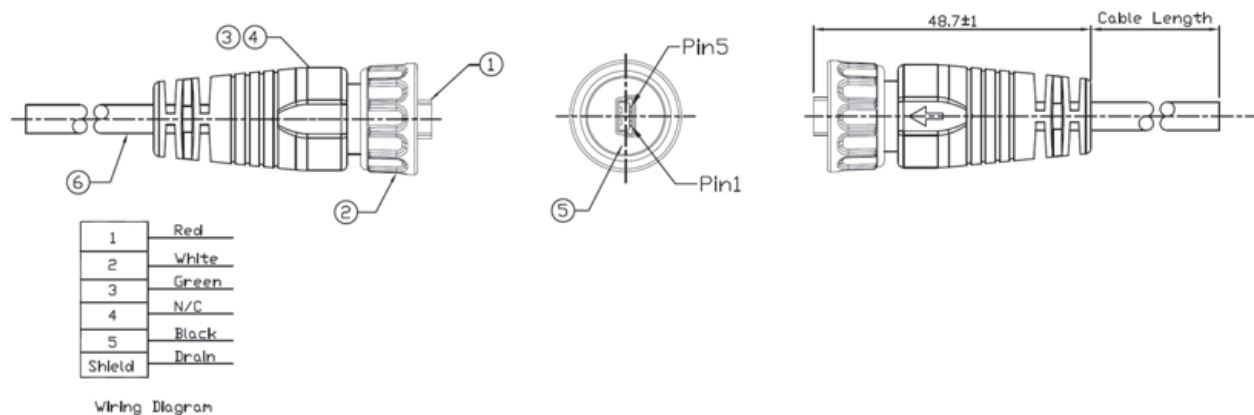
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUM-05F3

WATERPROOF CABLE AWG28+AWG24 WITH IP67 RATED PLASTIC SCREW MINI USB B TYPE PLUG TO OPEN END

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P UM 2 4 - x x M B

1. CABLE ASSEMBLY TYPE:

"UM24" WATERPROOF IP67 RATED PLASTIC SCREW OVER-MOLDED
MINI USB B TYPE 5 PIN PLUG TO OPEN END

2. CABLE LENGTH IN METERS:

1M, 2M, 2.5M, 3M,...etc.

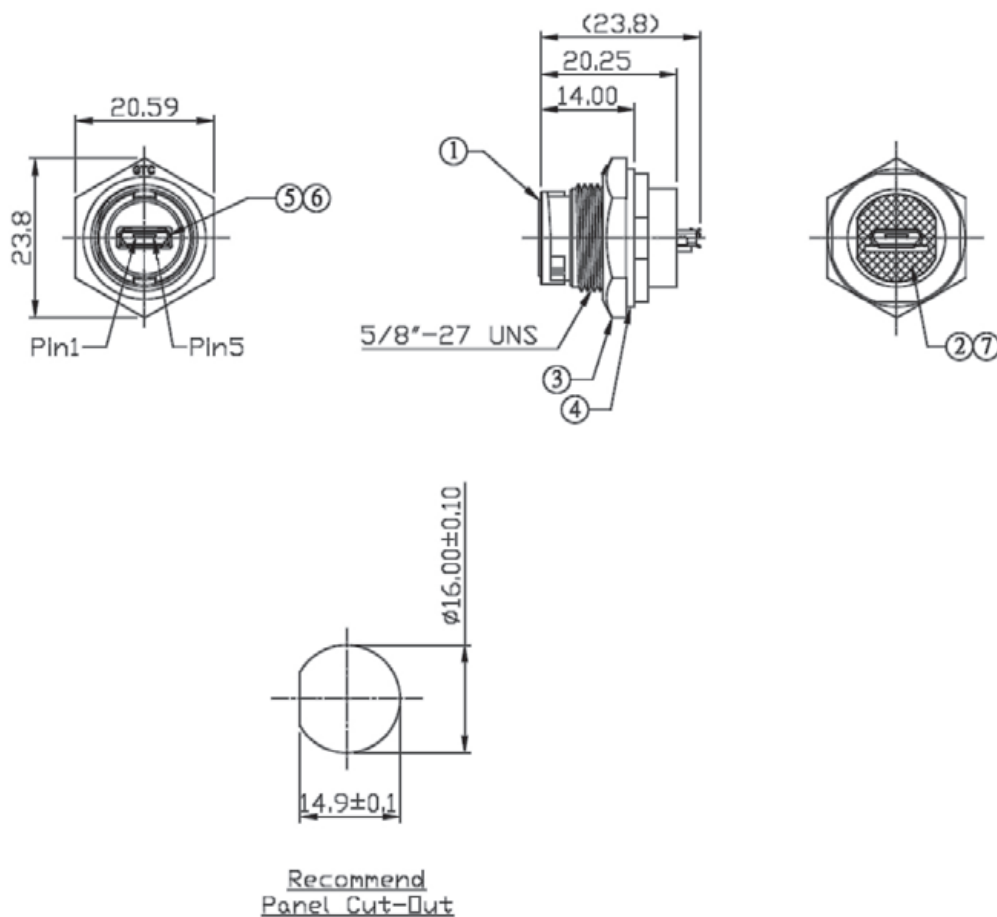
NOTE: MATES WITH JACK P/N WPUM-05F3

WATERPROOF IP67 RATED MICRO USB AB TYPE RECEPTACLE COUPLER

RECOMMENDED PANEL THICKNESS 0.8~3.0MM

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N WPUR-5F5F

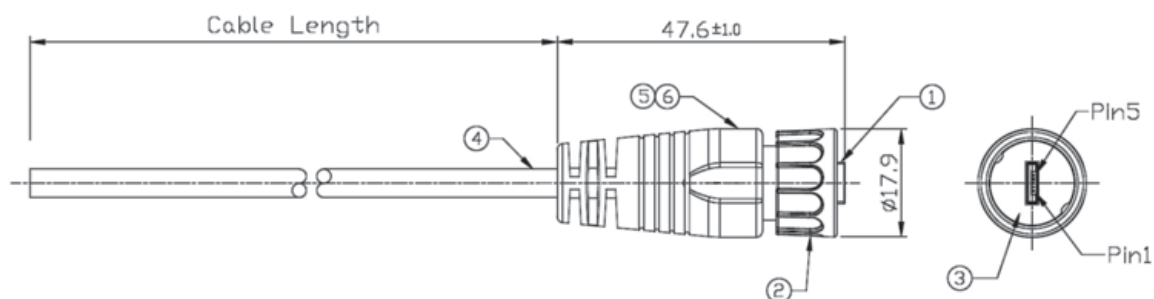
WATERPROOF IP67 RATED PLASTIC LOCK MICRO USB
AB TYPE 5 PIN FEMALE TO FEMALE PANEL MOUNT COUPLER

NOTE: MATES WITH CAP P/N WPUR-CAP01

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK MICRO USB AB TYPE PLUG TO OPEN END

*RoHS & REACH compliant.

Unit: mm



1	Red
2	White
3	Green
4	Yellow
5	Black
Shell	Drain

Wiring Diagram

ORDERING INFORMATION:

P/N KWPUR01 - xxMB
1
2

1. CABLE ASSEMBLY TYPE:

"UR01" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
MICRO USB AB TYPE 5 PIN PLUG TO OPEN END

2. CABLE LENGTH IN METERS:

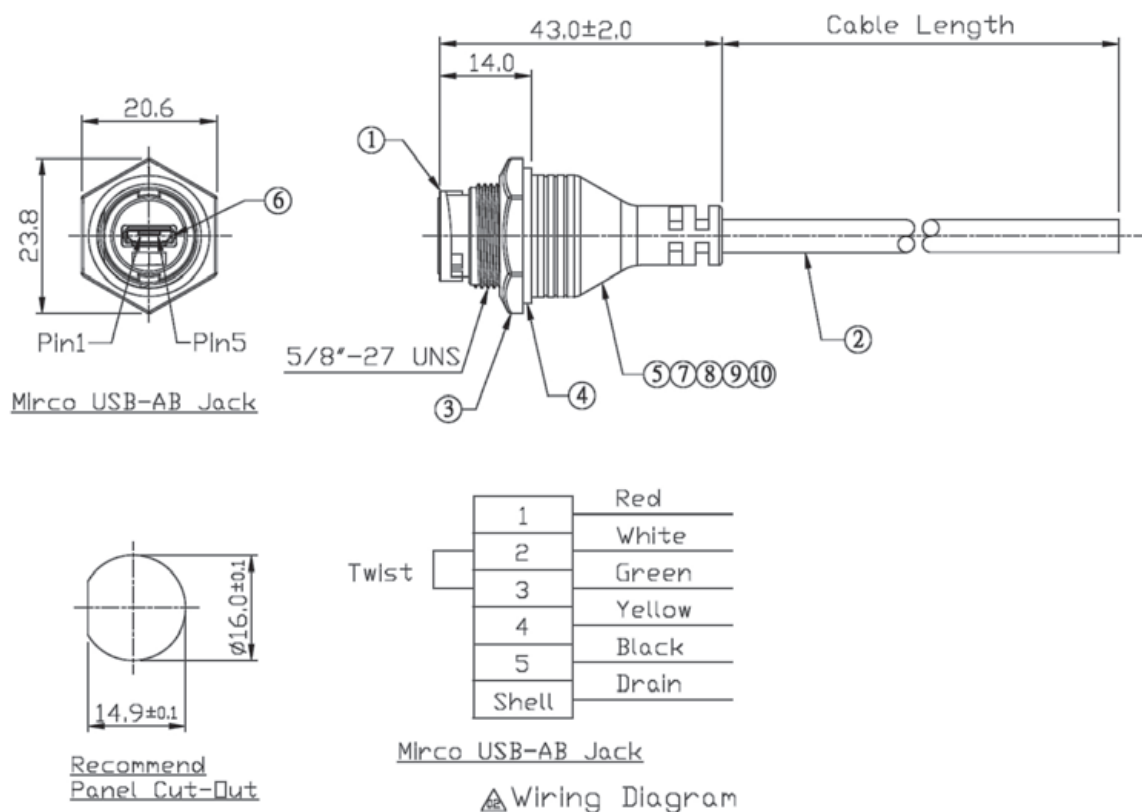
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH JACK P/N WPUR-5F5F

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK MICRO USB AB TYPE JACK TO OPEN END

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N KWPUR02 - xxM B

1. CABLE ASSEMBLY TYPE:

"UR02" WATERPROOF IP67 RATED PLASTIC LOCK OVER-MOLDED
MICRO USB AB TYPE 5 PIN FEMALE CONNECTOR TO OPEN END

2. CABLE LENGTH IN METERS:

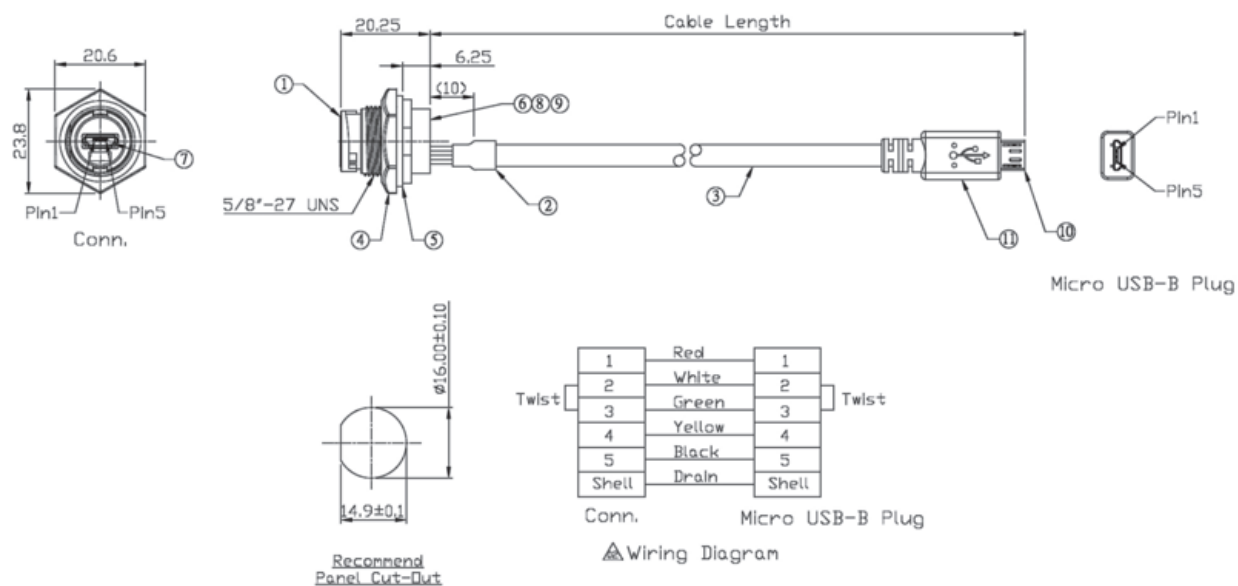
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUR-CAP01

WATERPROOF CABLE WITH IP67 RATED PLASTIC LOCK MICRO USB AB TYPE PANEL MOUNT JACK TO MICRO USB B TYPE PLUG

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N KWPUR03 - xxM B

1. CABLE ASSEMBLY TYPE:

"UR03" WATERPROOF IP67 RATED PLASTIC LOCK MICRO USB AB TYPE
5 PIN PANEL MOUNT JACK TO MICRO USB B TYPE PLUG

2. CABLE LENGTH IN METERS:

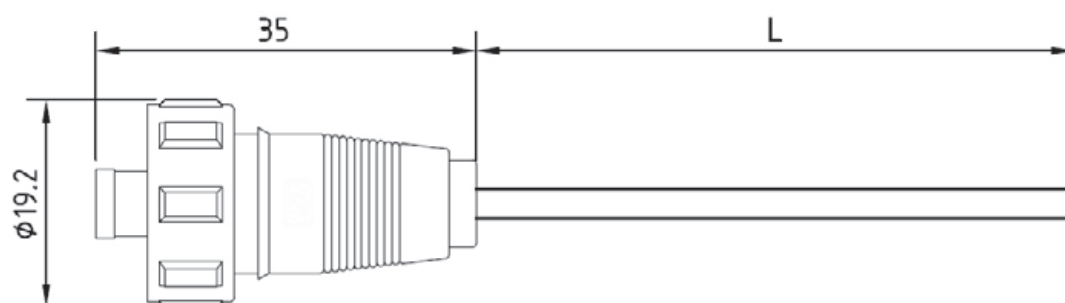
1M, 2M, 2.5M, 3M,...etc.

NOTE: MATES WITH CAP P/N WPUR-CAP01

WATERPROOF IP68 RATED SMB JACK RG174/U MOLDED CABLE

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

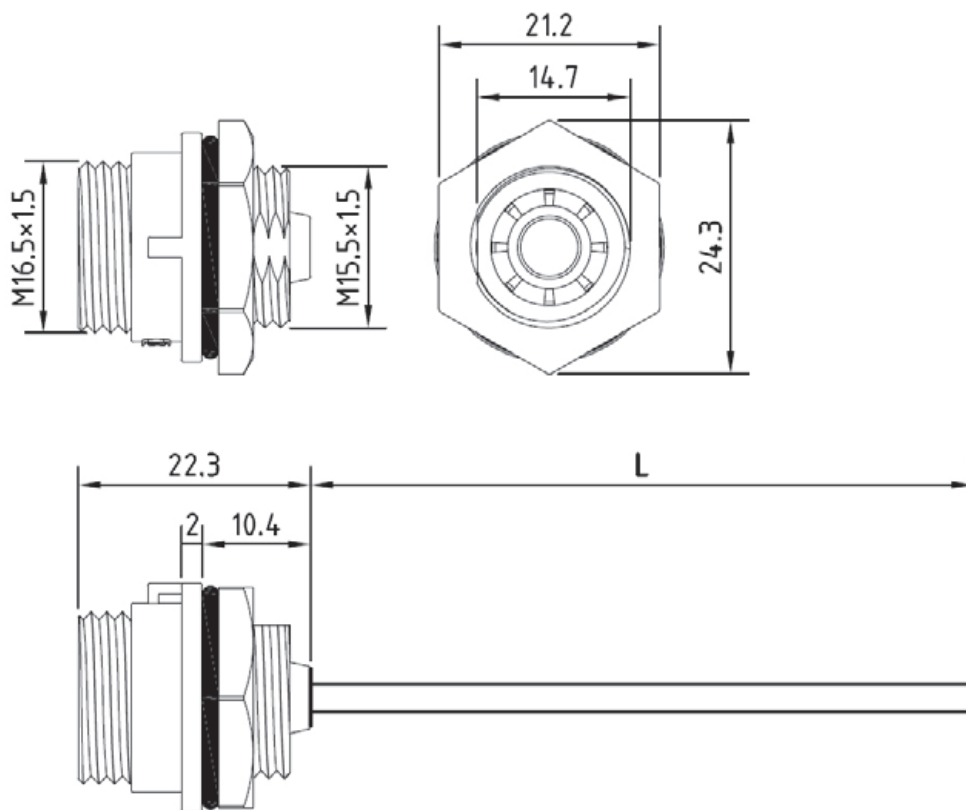
P/N K W P S B F 1 7 4 - x x M

1. CONNECTOR AT END:
"SBF" SMB JACK (FEMALE)
2. USED COAXIAL CABLE:
"174" RG174/U
3. CABLE LENGTH IN METERS:
1M, 3M, 5M,...etc.

WATERPROOF IP68 RATED SMB PLUG RG174/U MOLDED CABLE

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

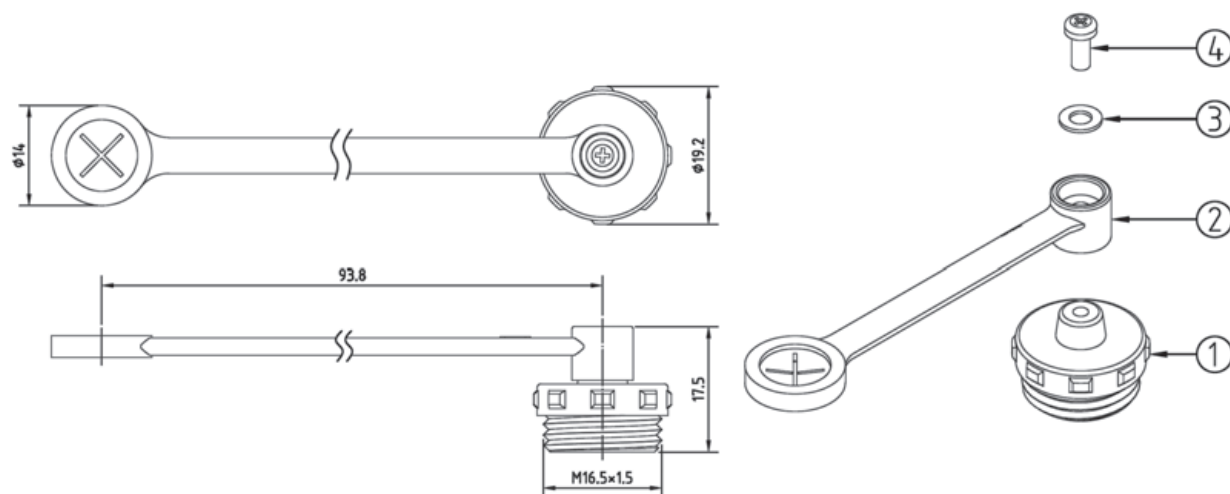
P/N K W P S B M 1 7 4 - x x M
1 2 3

1. CONNECTOR AT END:
"SBM" SMB PLUG (MALE)
2. USED COAXIAL CABLE:
"174" RG174/U
3. CABLE LENGTH IN METERS:
1M, 3M, 5M,...etc.

WATERPROOF IP68 RATED CAP FOR SMB JACK

*RoHS & REACH compliant.

Unit: mm



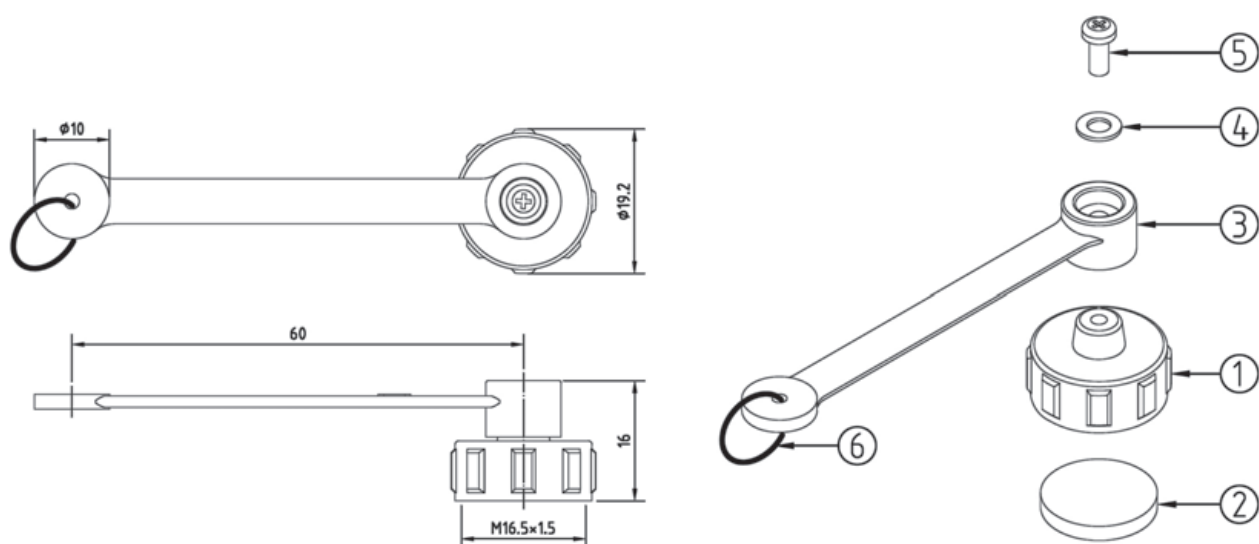
ORDERING INFORMATION:

P/N W P S B F - C A P

WATERPROOF IP68 RATED CAP FOR SMB PLUG

*RoHS & REACH compliant.

Unit: mm



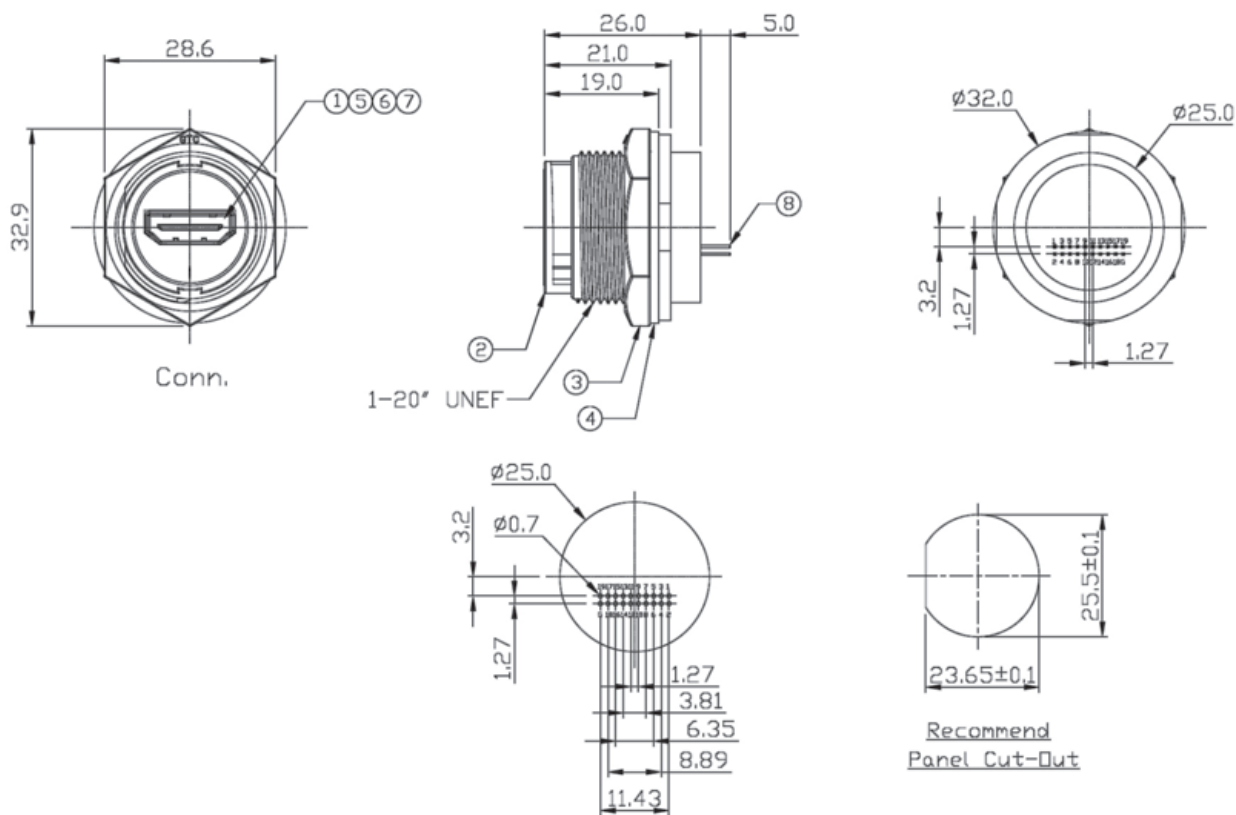
ORDERING INFORMATION:

P/N W P S B M - C A P

WATERPROOF HDMI 19 PIN JACK PLASTIC LOCK PANEL MOUNT DIP TYPE

*RoHS & REACH compliant.

Unit: mm



Recommended P.C.Board Layout

ORDERING INFORMATION:

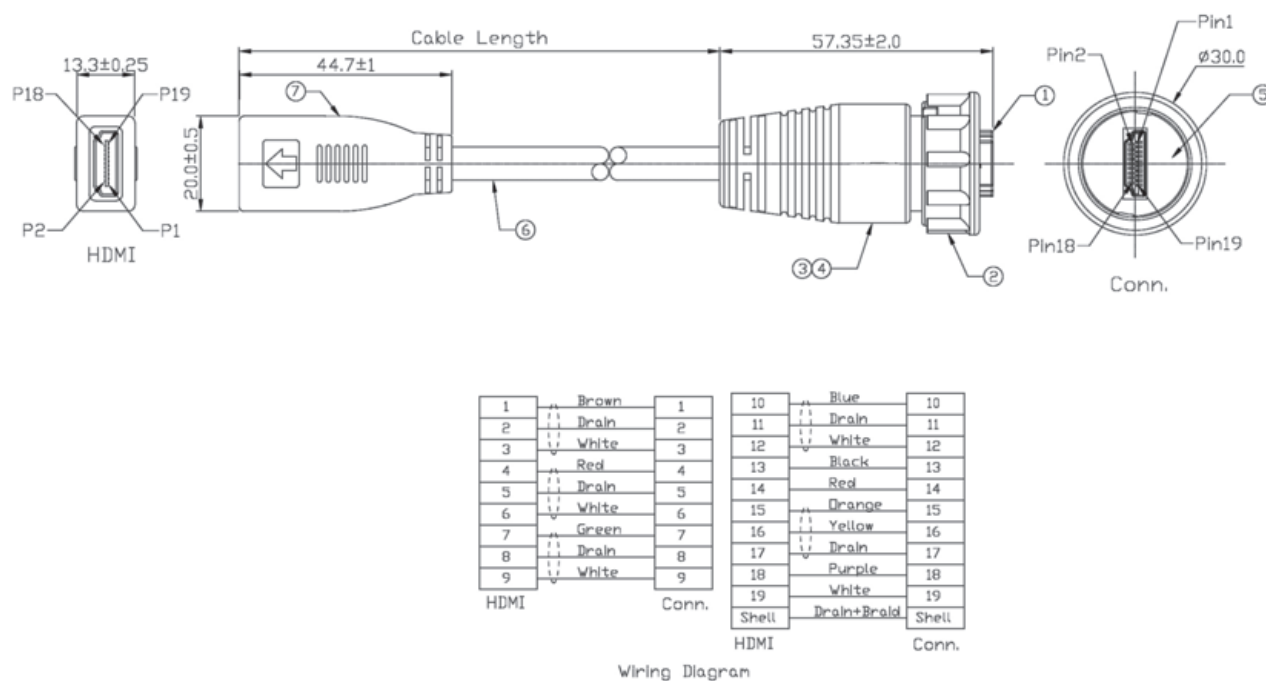
P/N W P H M - 1 9 F P

WATERPROOF IP67 RATED HDMI 19 PIN FEMALE CONNECTOR
PLASTIC LOCK PANEL MOUNT STRAIGHT PCB MOUNT TYPE

WATERPROOF HDMI 19 PIN PLUG TO HDMI JACK UL20276 AWG28 CABLE

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N K W P H M 01 - x x M B
1 2 3

1. CONNECTORS AT 2 ENDS:

"01" WATERPROOF IP67 RATED HDMI 19 PIN MALE
TO HDMI 19 PIN FEMALE CABLE

2. CABLE LENGTH IN METERS:

0.5M, 1M, 2M, 3M,...etc.

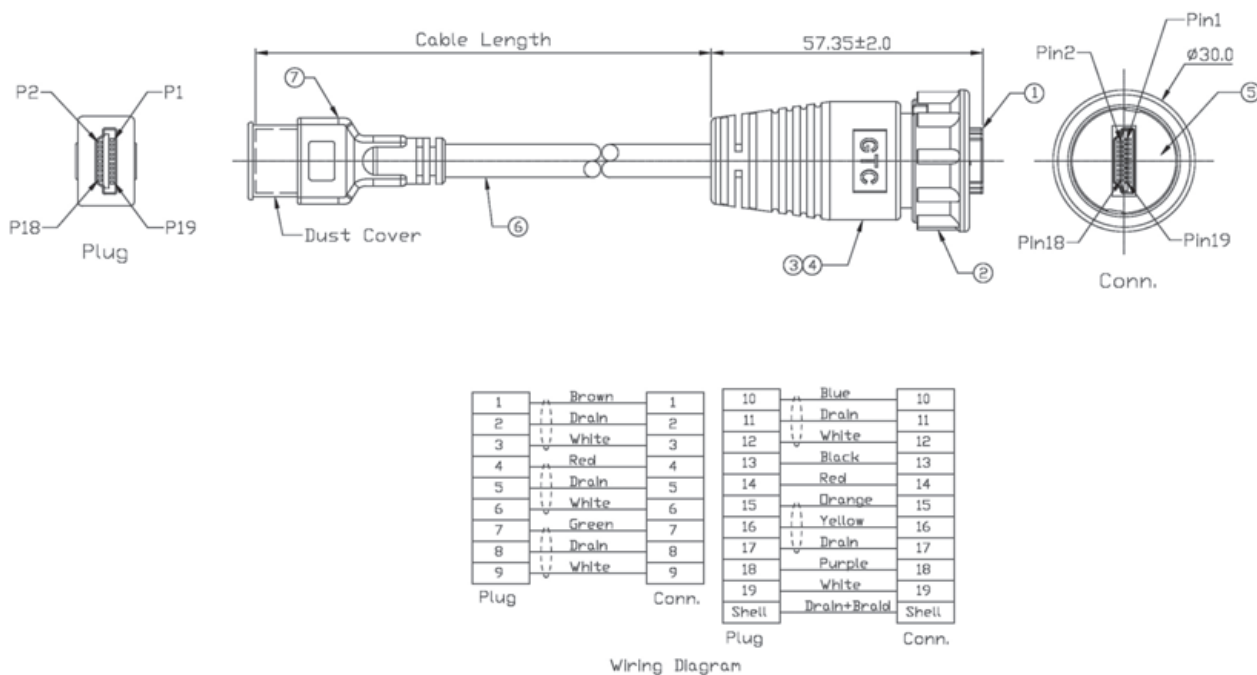
3. CABLE COLOR:

"B" BLACK

WATERPROOF HDMI 19 PIN PLUG TO HDMI PLUG UL20276 AWG28 CABLE

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

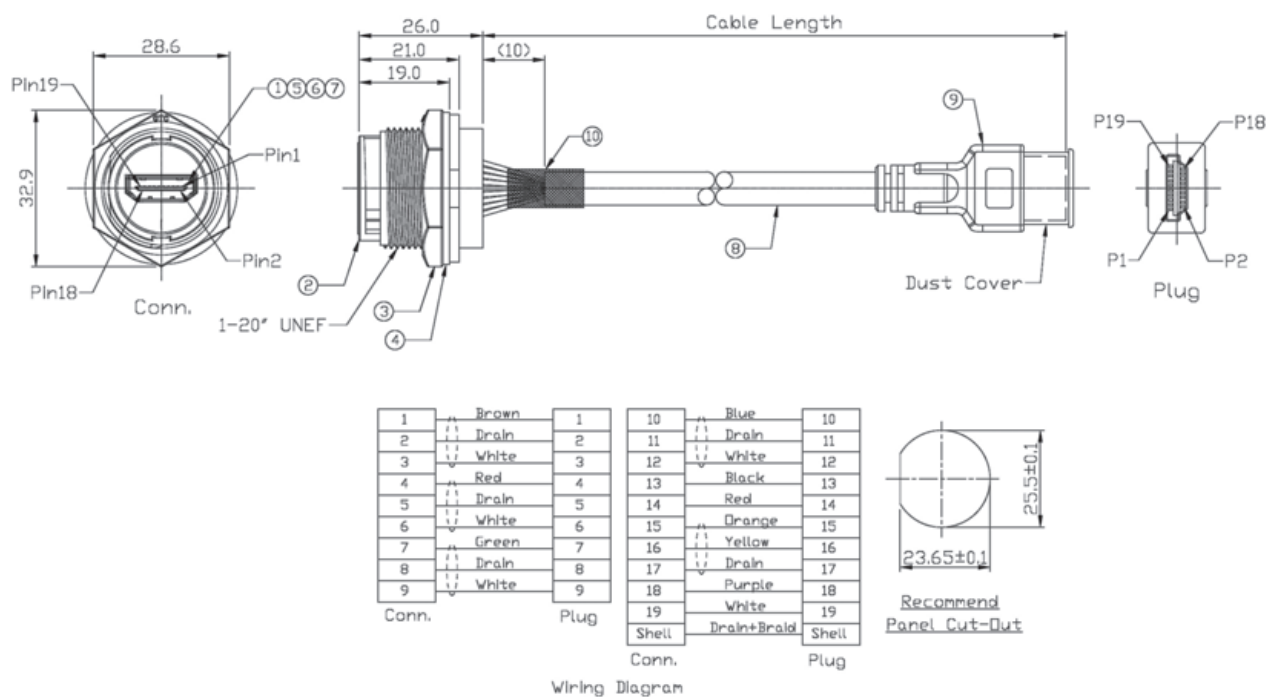
P/N K W P H M 02 - x x M B
1 2 3

- CONNECTORS AT 2 ENDS:
"02" WATERPROOF IP67 RATED HDMI 19 PIN MALE
TO HDMI 19 PIN MALE CABLE
- CABLE LENGTH IN METERS:
0.5M, 1M, 2M, 3M,...etc.
- CABLE COLOR:
"B" BLACK

WATERPROOF HDMI 19 PIN JACK TO HDMI PLUG UL20276 AWG28 CABLE

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

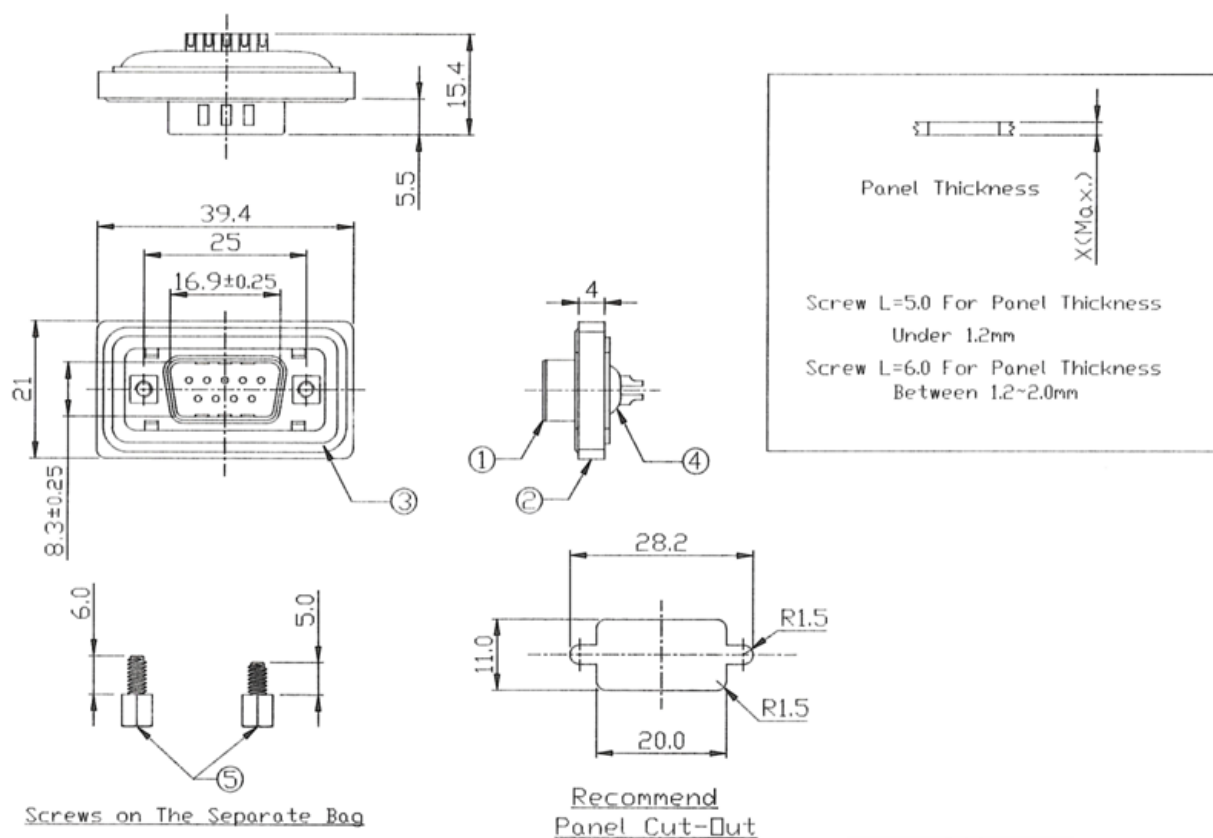
P/N K W P H M 04 - x x M B
1 2 3

- CONNECTORS AT 2 ENDS:
 "04" WATERPROOF IP67 RATED HDMI 19 PIN FEMALE
 TO HDMI 19 PIN MALE CABLE
- CABLE LENGTH IN METERS:
 0.5M, 1M, 2M, 3M,...etc.
- CABLE COLOR:
 "B" BLACK

WATERPROOF D-SUB. 5A 9 PIN MALE CONNECTOR PANEL MOUNT SOLDER TYPE (1)

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N W P D B - 09 M 56
 1 2 3

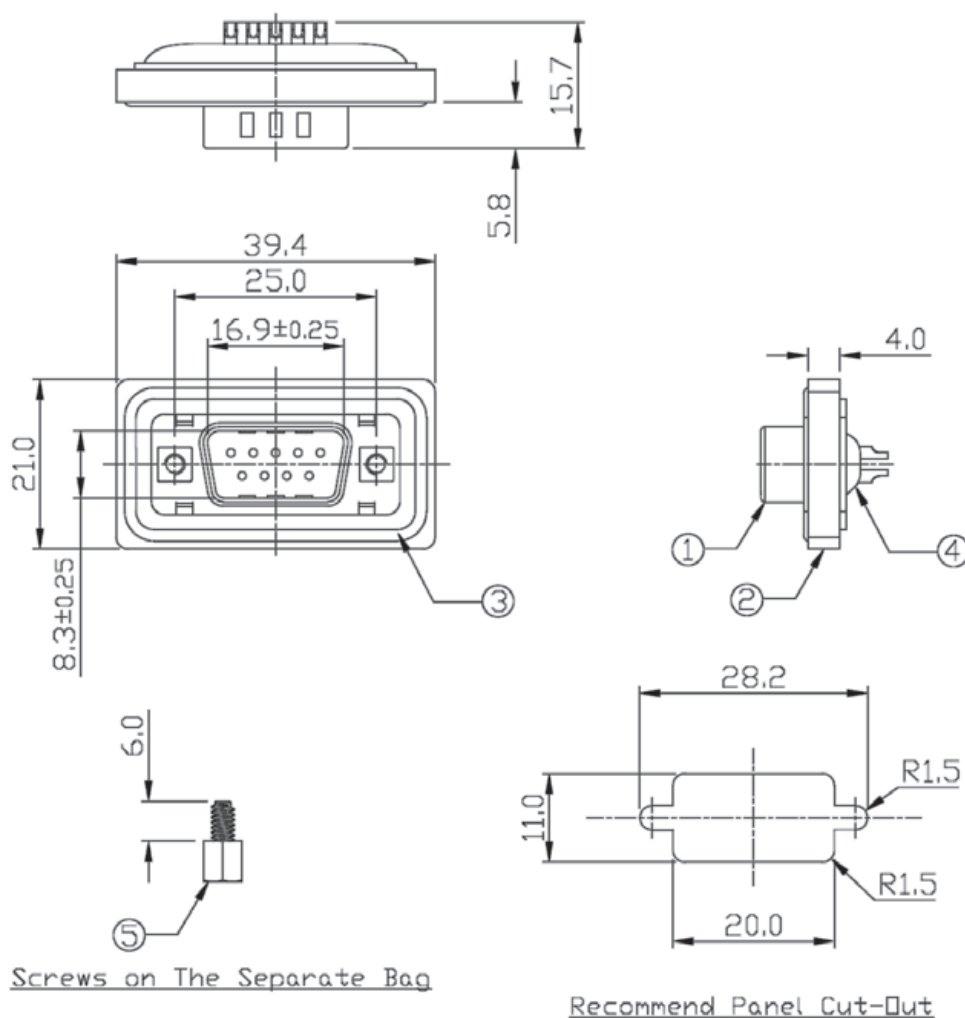
1. NO. OF COTACTS:
09
2. CONTACT TYPE:
"M" MALE
3. SCREW THREAD LENGTHS:
"56" 5MM+6MM THREADED SCREWS

NOTE: MATES WITH CAP P/N WPDB-CAP01

WATERPROOF D-SUB. 5A 9 PIN MALE CONNECTOR PANEL MOUNT SOLDER TYPE (2)

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N WPDB - 09 M 66
 1 2 3

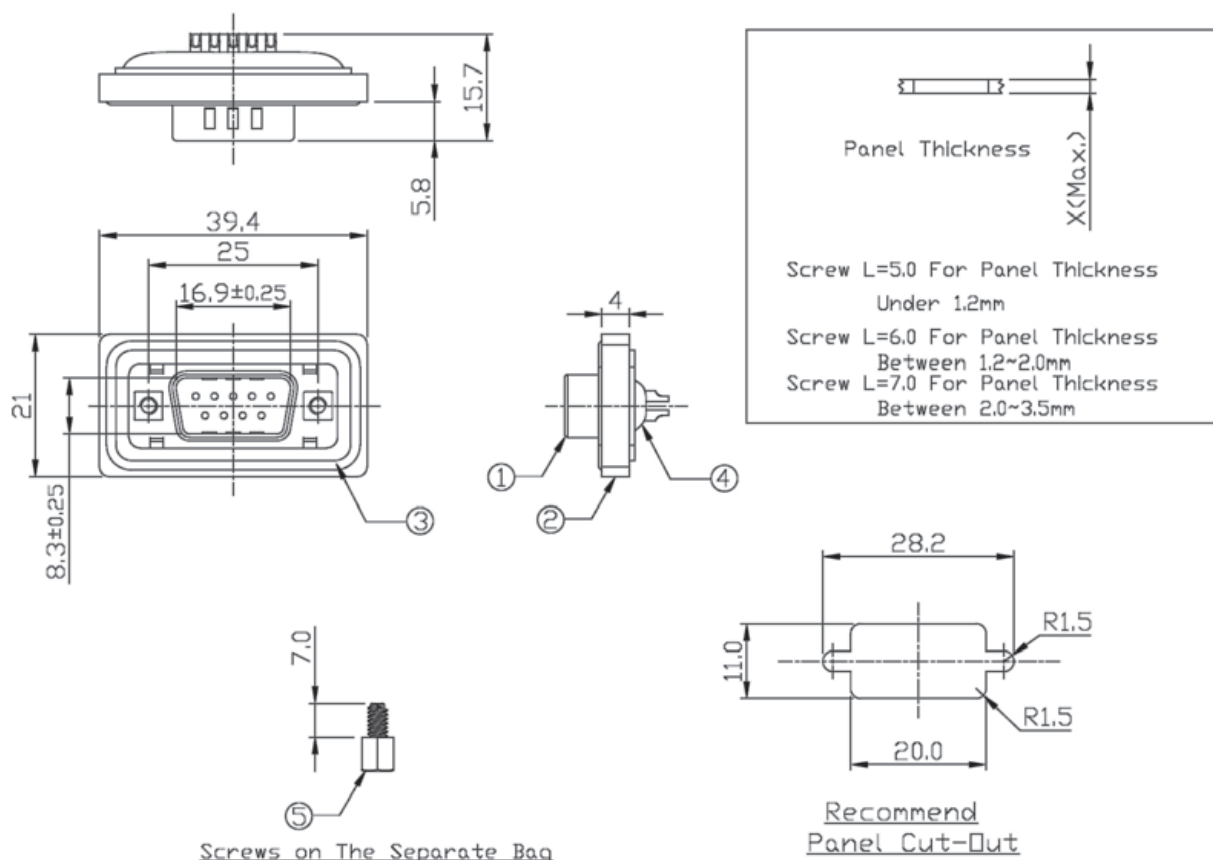
1. NO. OF CONTACTS:
09
2. CONTACT TYPE:
"M" MALE
3. SCREW THREAD LENGTHS:
"66" 6MM+6MM THREADED SCREWS

NOTE: MATES WITH CAP P/N WPDB-CAP01

WATERPROOF D-SUB. 5A 9 PIN MALE CONNECTOR PANEL MOUNT SOLDER TYPE (3)

*RoHS & REACH compliant.

Unit: mm



ORDERING INFORMATION:

P/N WPDB - 09 M 77
 1 2 3

1. NO. OF CONTACTS:
09
2. CONTACT TYPE:
"M" MALE
3. SCREW THREAD LENGTHS:
"77" 7MM+7MM THREADED SCREWS

NOTE: MATES WITH CAP P/N WPDB-CAP02

WATERPROOF D-SUB. 9 PIN MALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

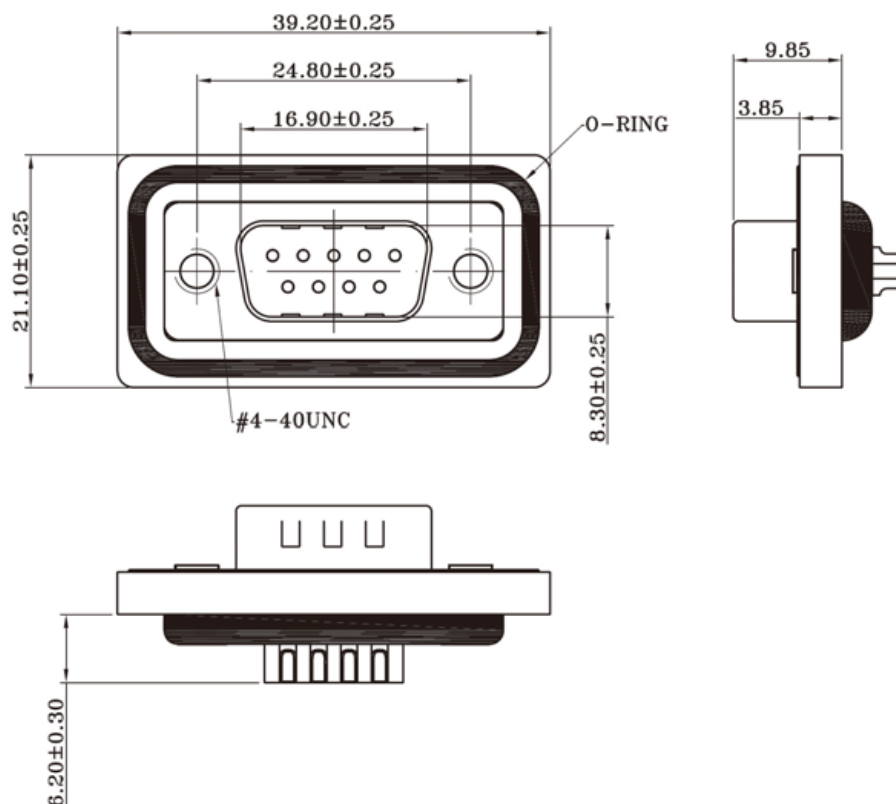
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 01 WP - 09 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"01" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"09" DB9M
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 15 PIN MALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

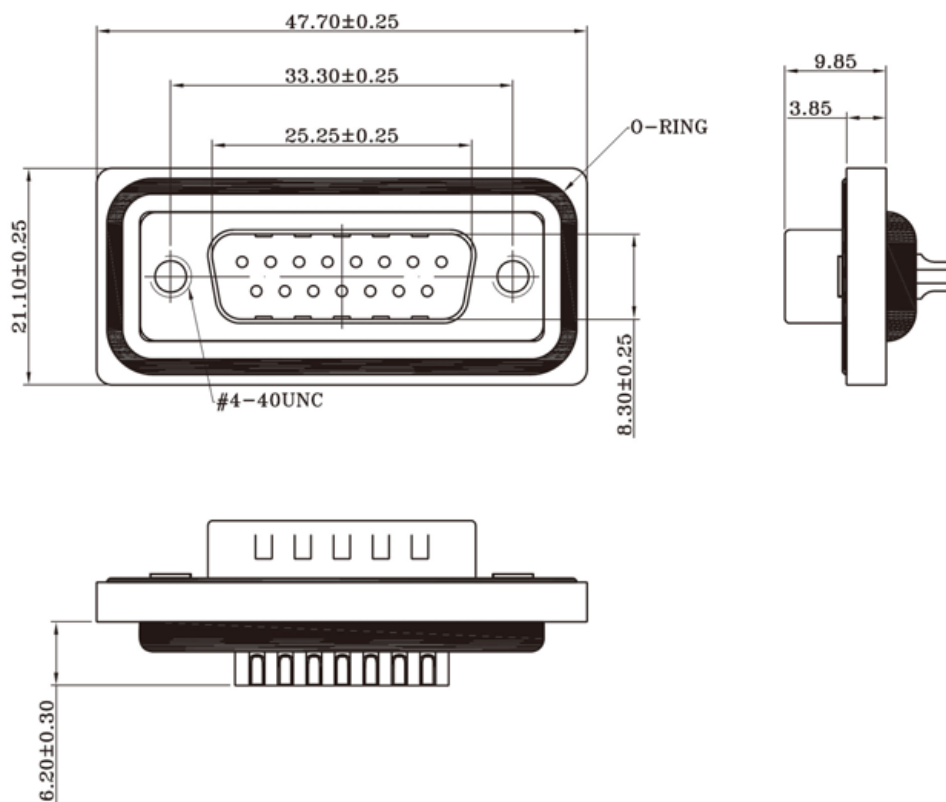
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 01 WP - 15 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"01" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"15" DB15M
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 25 PIN MALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

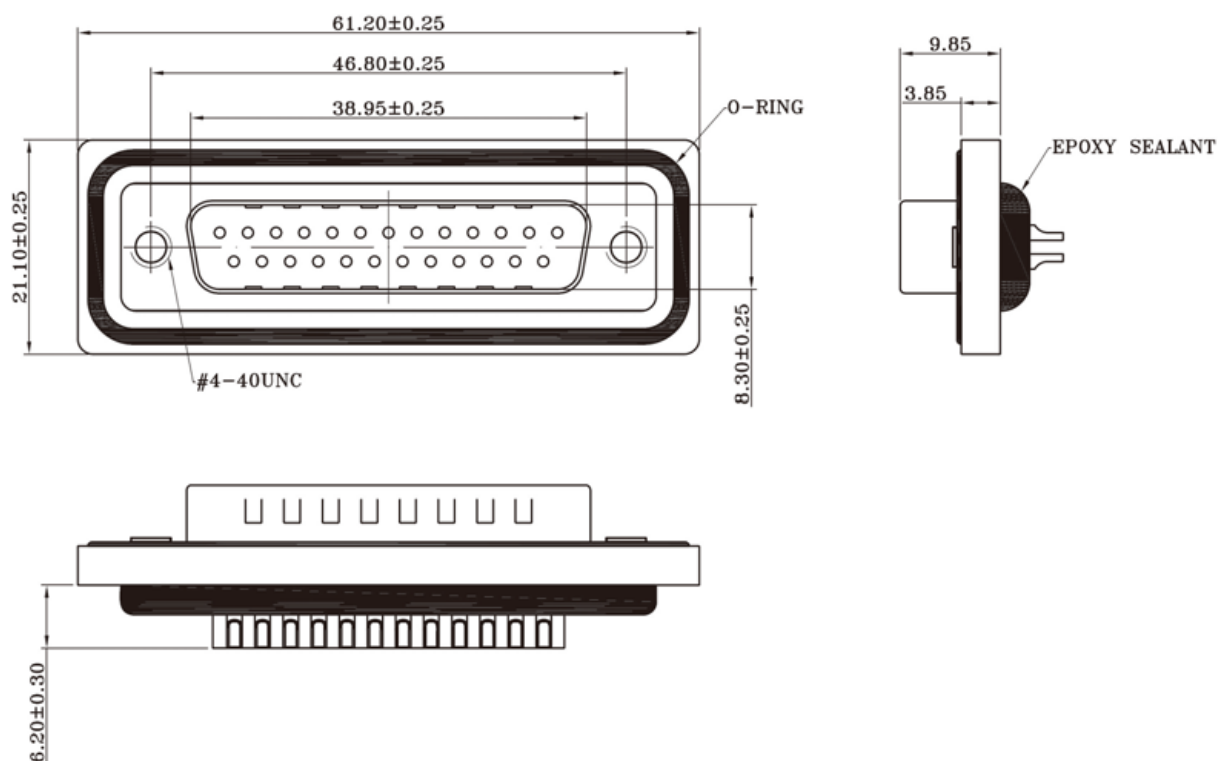
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 01 WP - 25 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"01" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"25" DB25M
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 37 PIN MALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

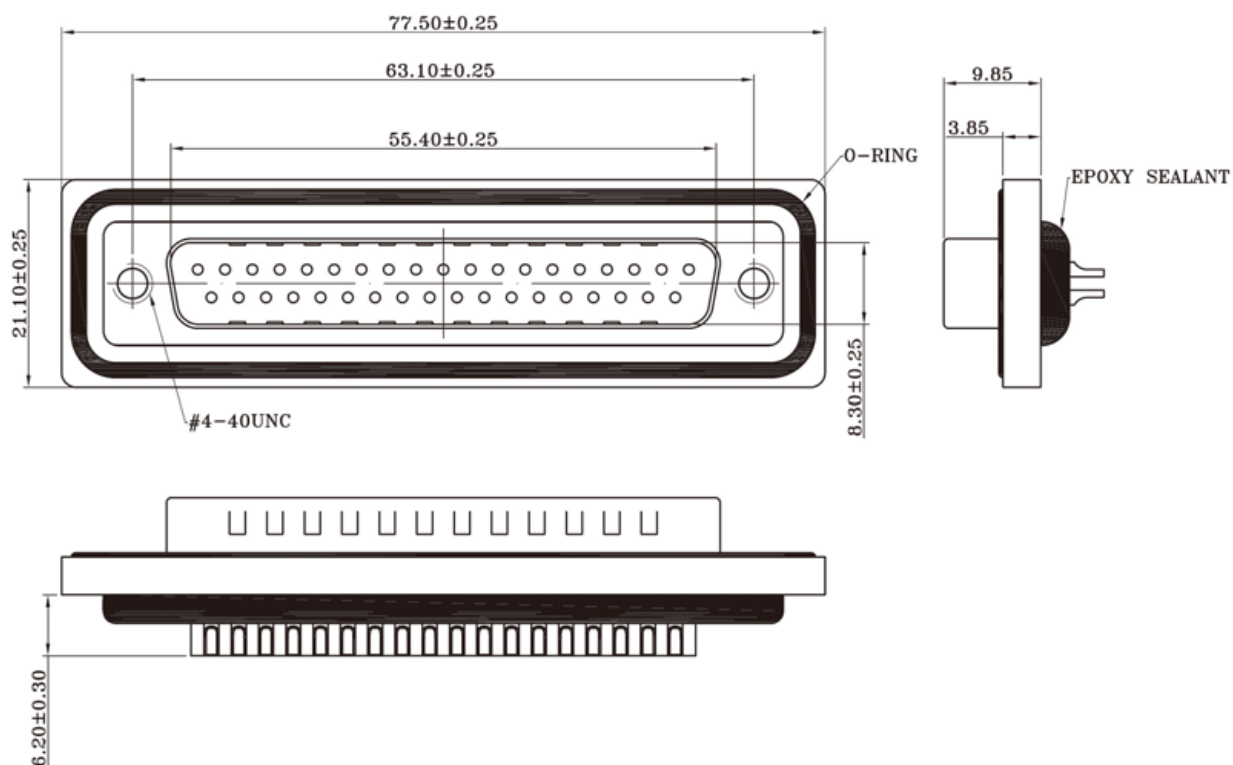
Insulation Resistance: 5GΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 01 WP - 37 T B / XX
 1 2 3 4

1. CONNECTOR TYPE:
"01" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"37" DB37M
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 9 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

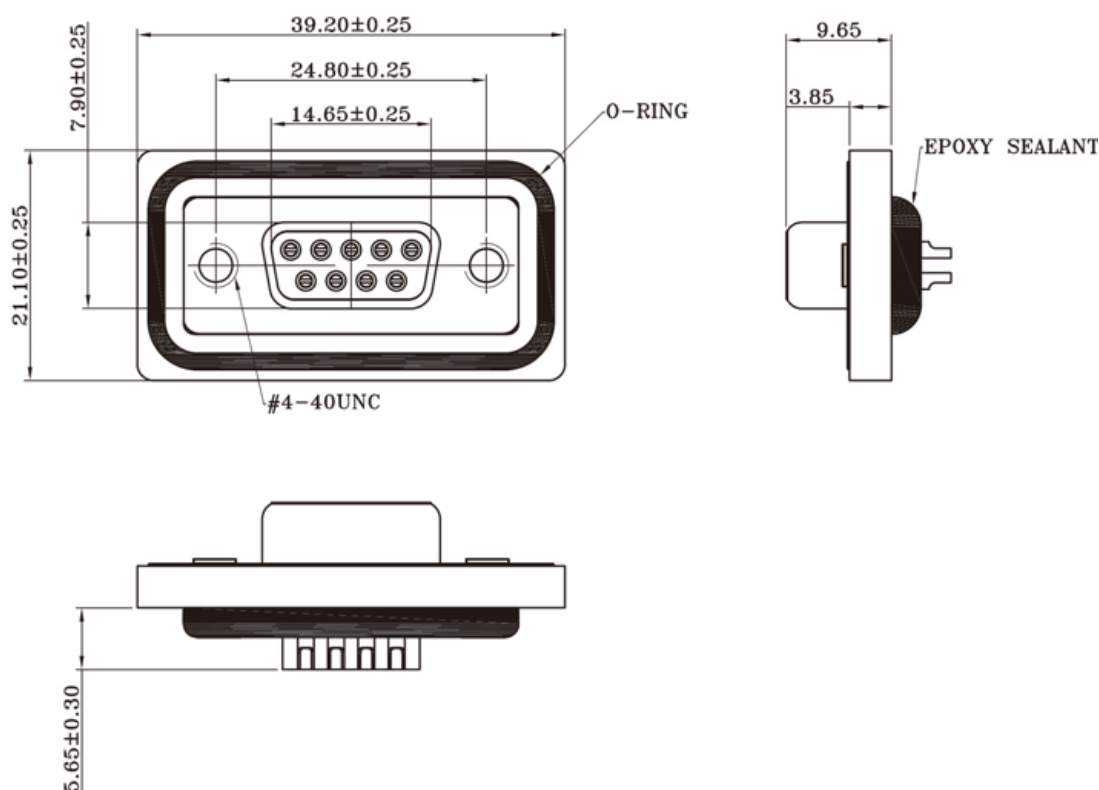
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 02 WP - 09 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"02" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"09" DB9F
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 15 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

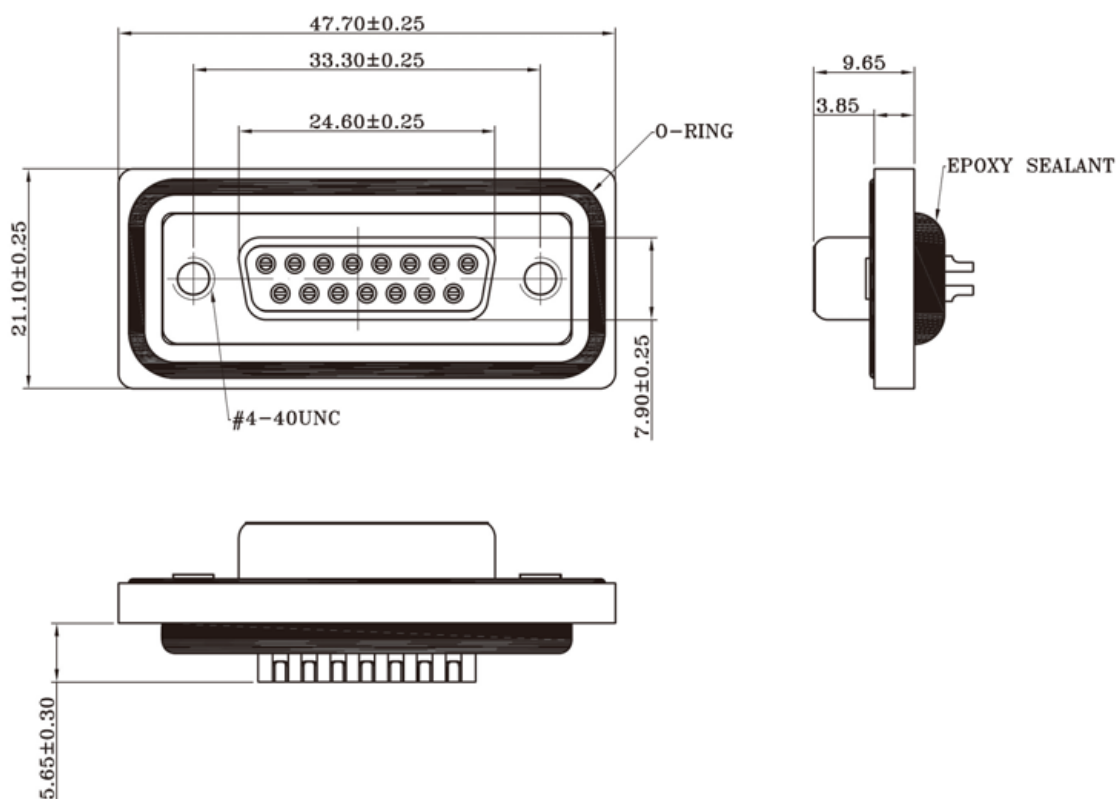
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 02 WP - 15 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"02" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"15" DB15F
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 25 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

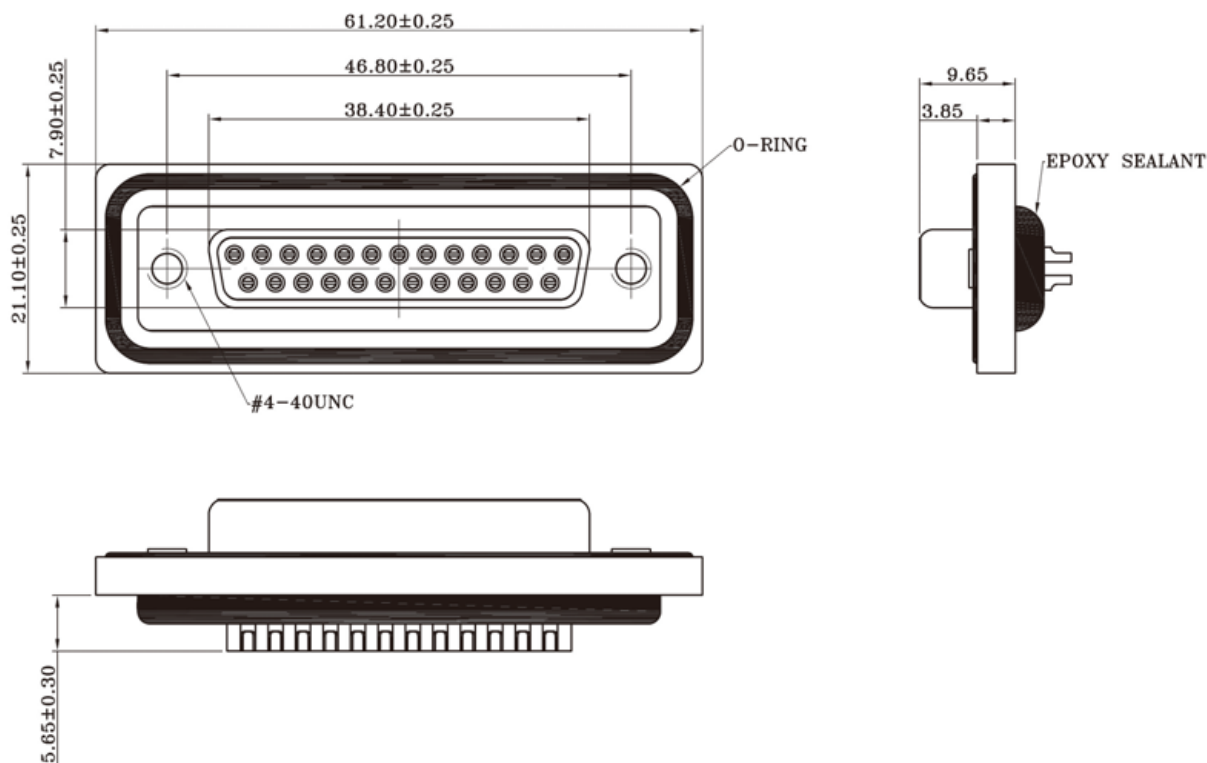
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 02 WP - 25 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"02" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"25" DB25F
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 37 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

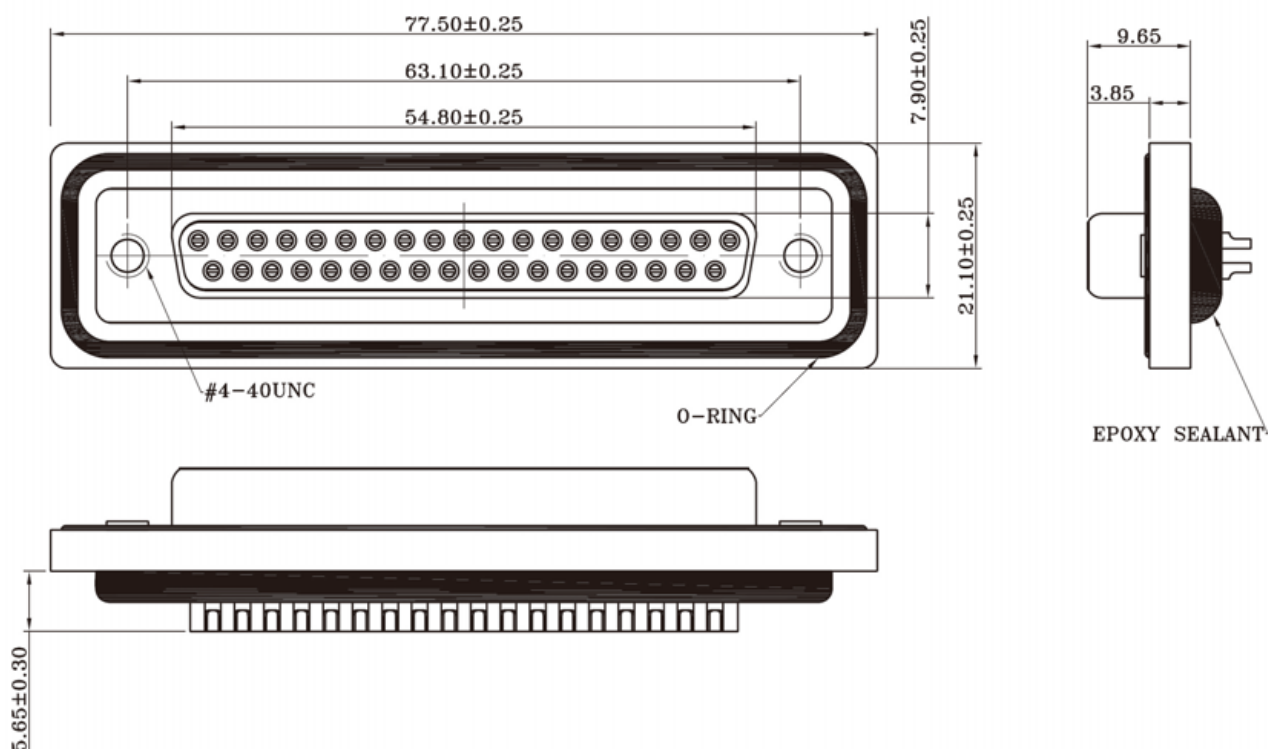
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 02 WP - 37 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"02" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"37" DB37F
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 9 PIN MALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

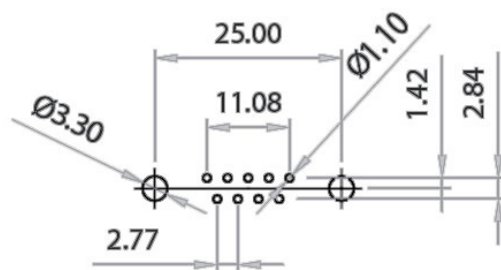
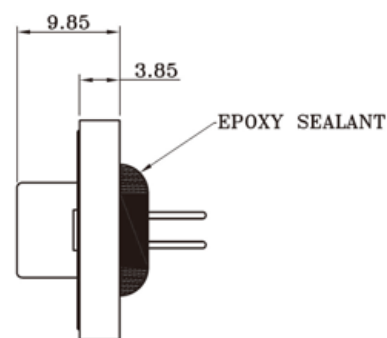
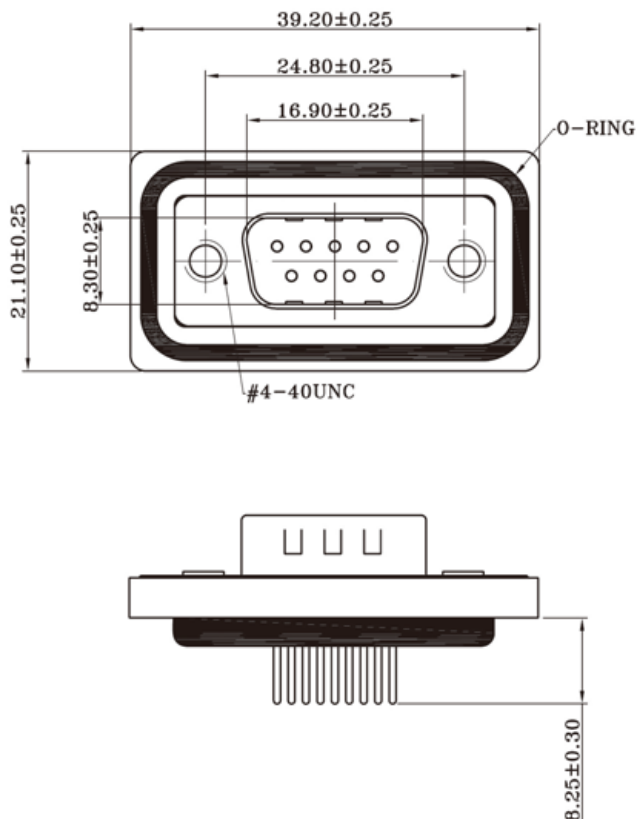
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C. Board Layout

ORDERING INFORMATION:

P/N 5 1 03 WP - 09 T B / XX
1 2 3 4

- CONNECTOR TYPE:
"03" MALE WITH MACHINED CONTACTS
- PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
- NO. OF CONTACTS:
"09" DB9M
- MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 15 PIN MALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

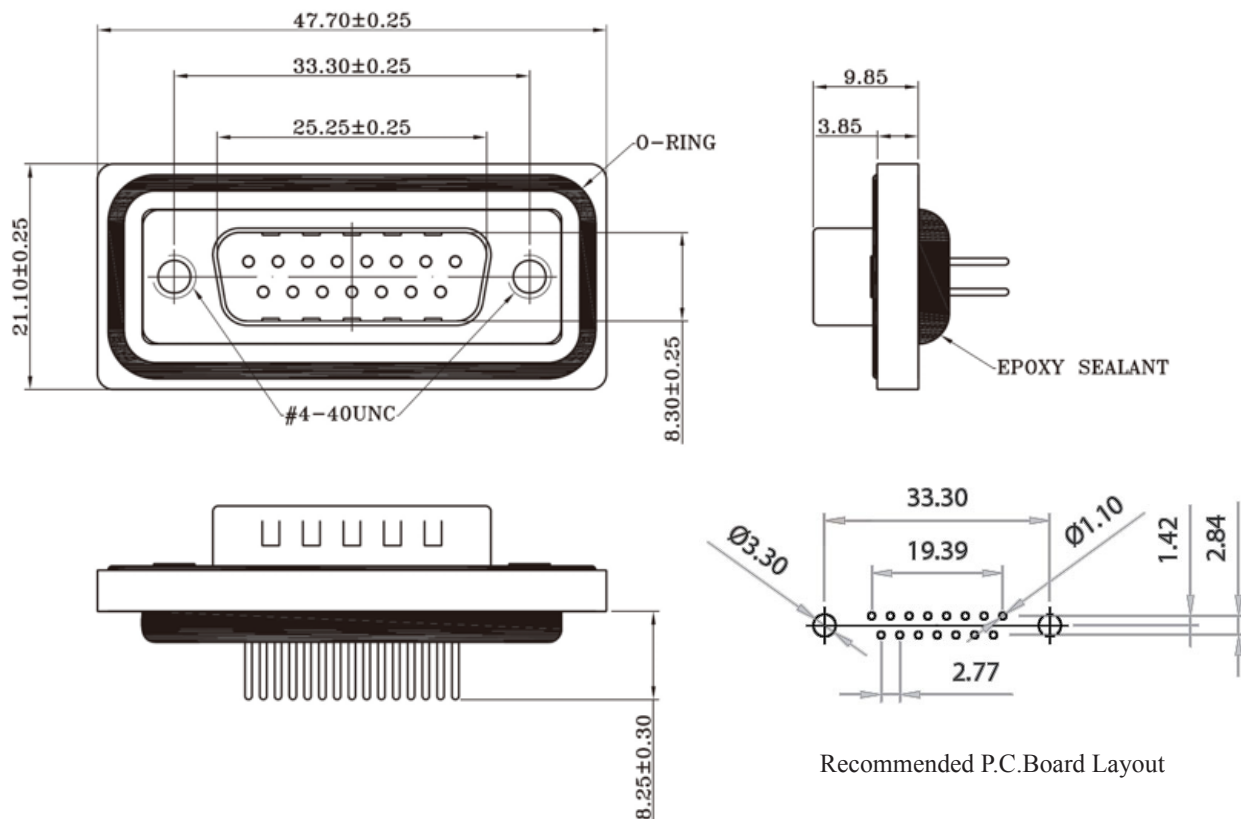
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 03 WP - 15 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"03" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"15" DB15M
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 25 PIN MALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

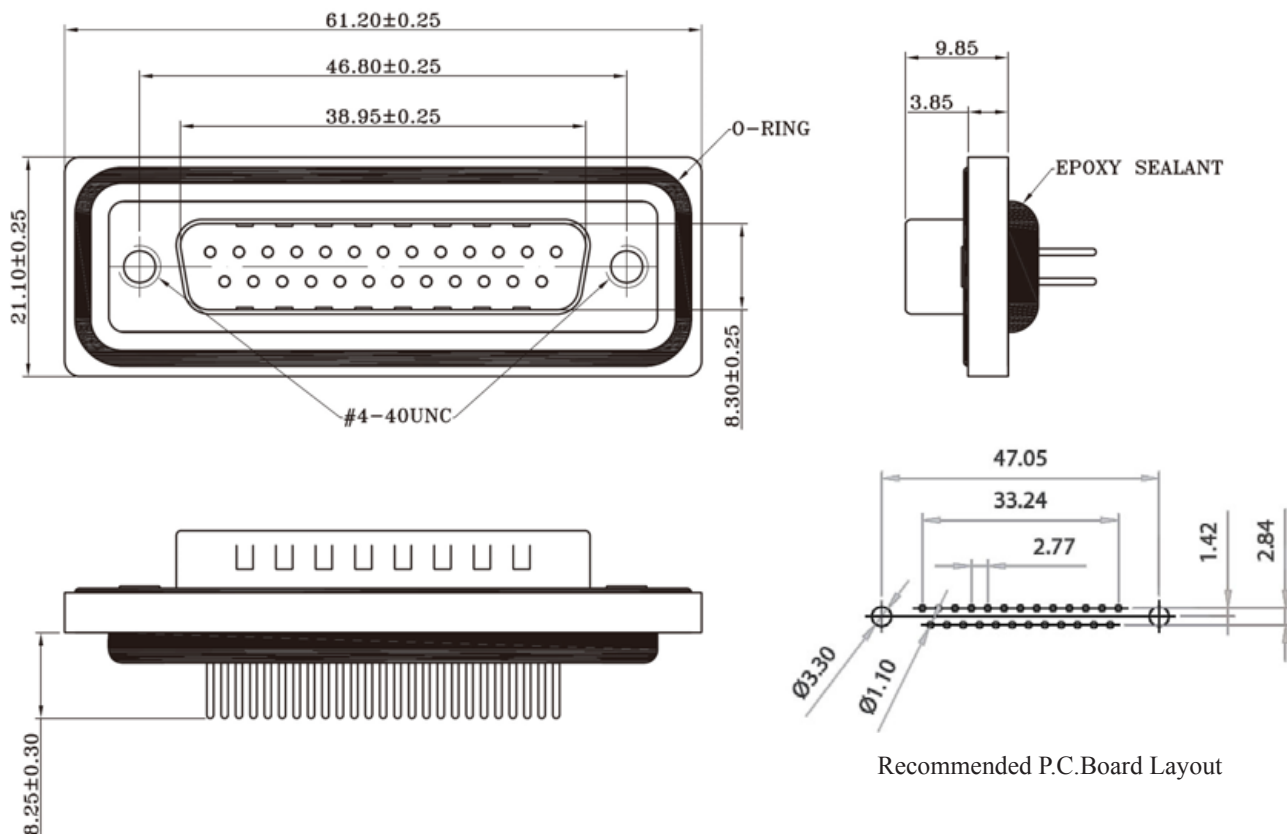
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 03 WP - 25 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"03" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"25" DB25M
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 37 PIN MALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

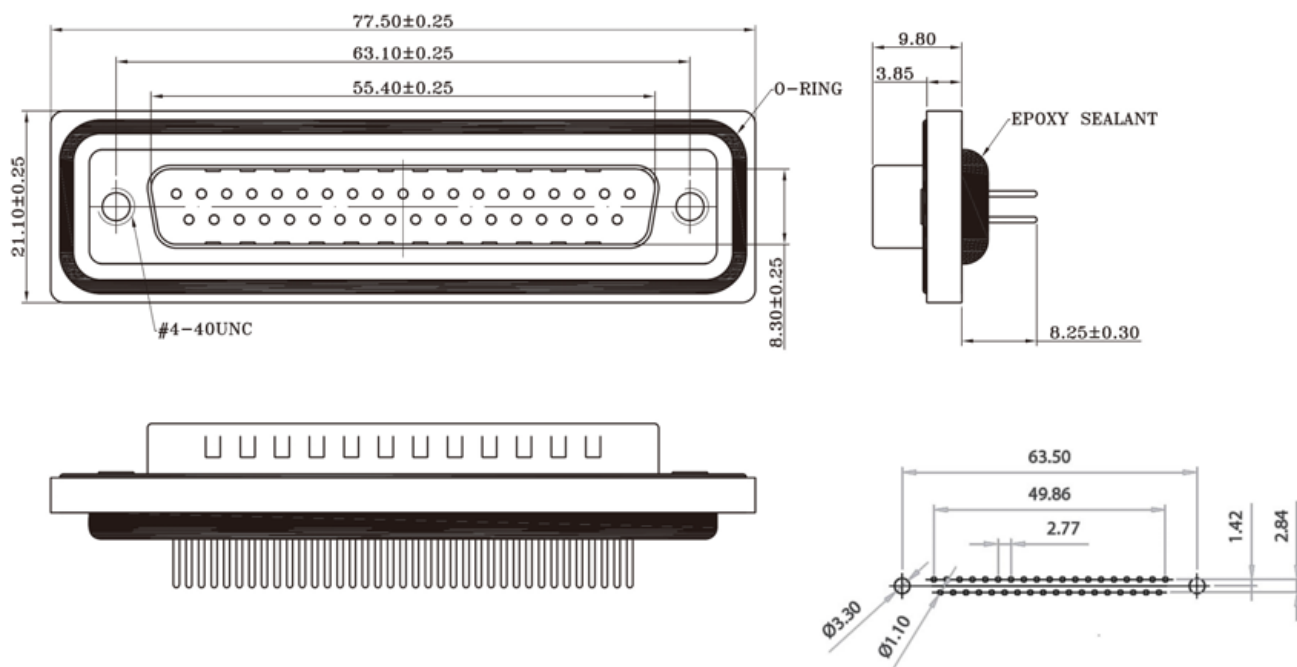
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 03 WP - 37 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"03" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"37" DB37M
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 9 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

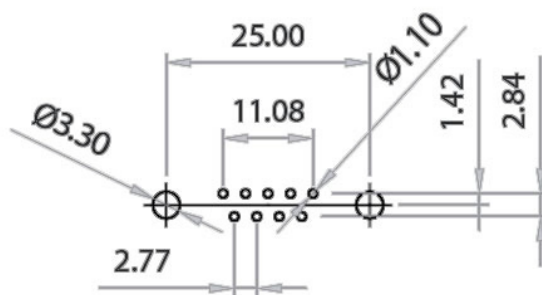
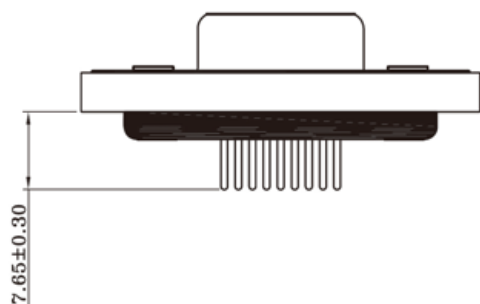
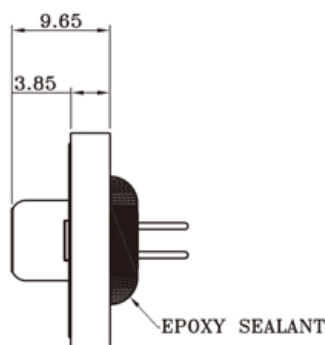
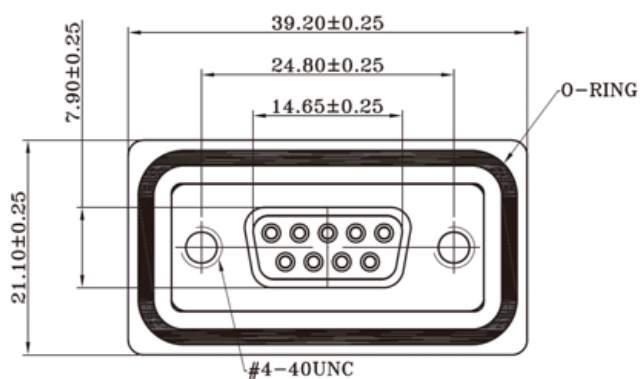
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C. Board Layout

ORDERING INFORMATION:

P/N 5 1 04 WP - 09 T B / XX
1 2 3 4

1. CONNECTOR TYPE:

"04" FEMALE WITH MACHINED CONTACTS

2. PROTECTION TYPE:

"WP" IP67 DEGREE WATERPROOF

3. NO. OF CONTACTS:

"09" DB9F

4. MOUNTING OPTION:

" " #4-40UNC MOUNTING HOLES

"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL

"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL

"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 15 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

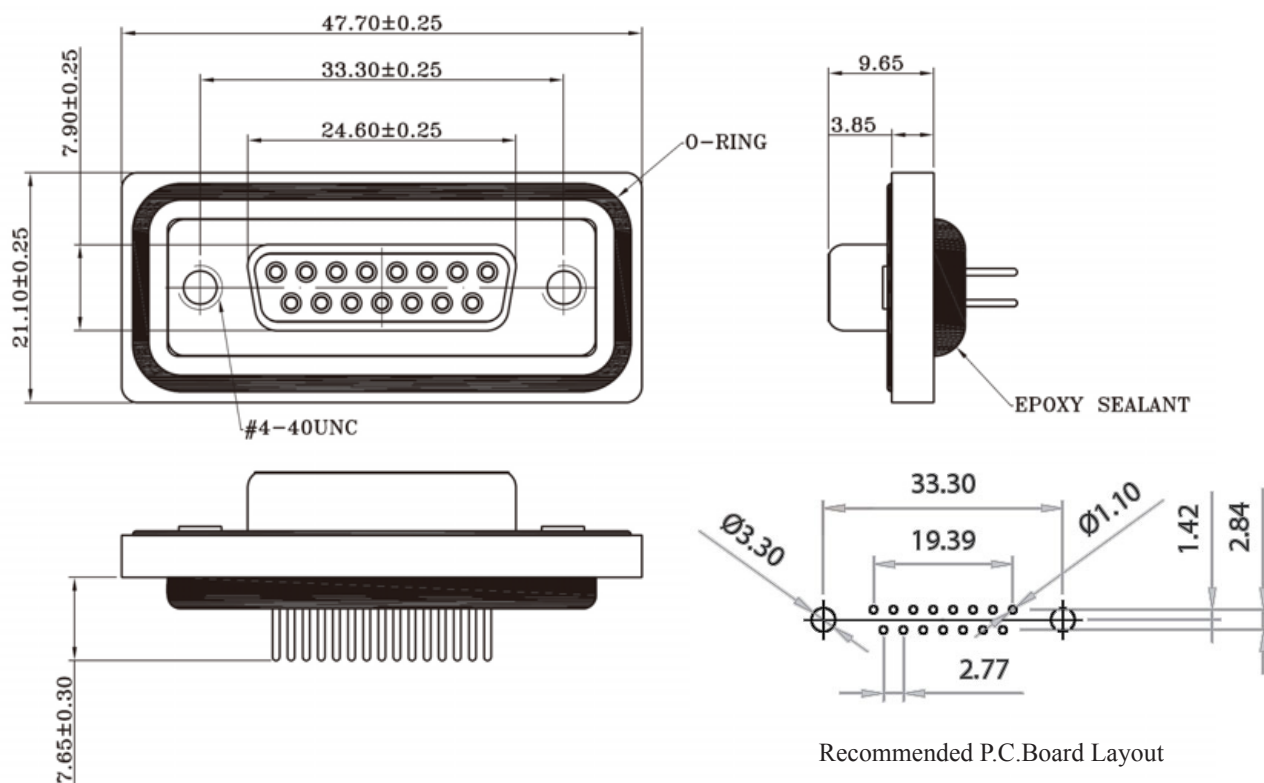
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 04 WP - 15 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"04" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"15" DB15F
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 25 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Singal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

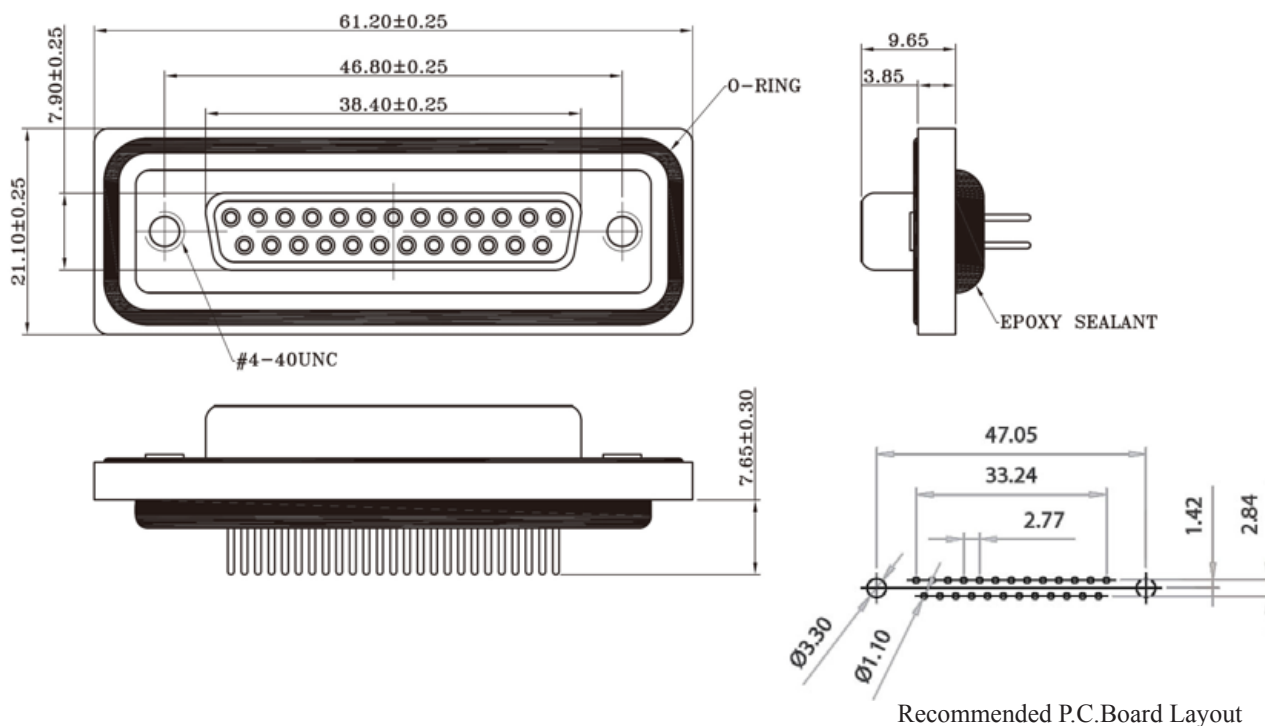
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 04 WP - 25 T B / XX
1 2 3 4

- CONNECTOR TYPE:
"04" FEMALE WITH MACHINED CONTACTS
- PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
- NO. OF CONTACTS:
"25" DB25F
- MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 37 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

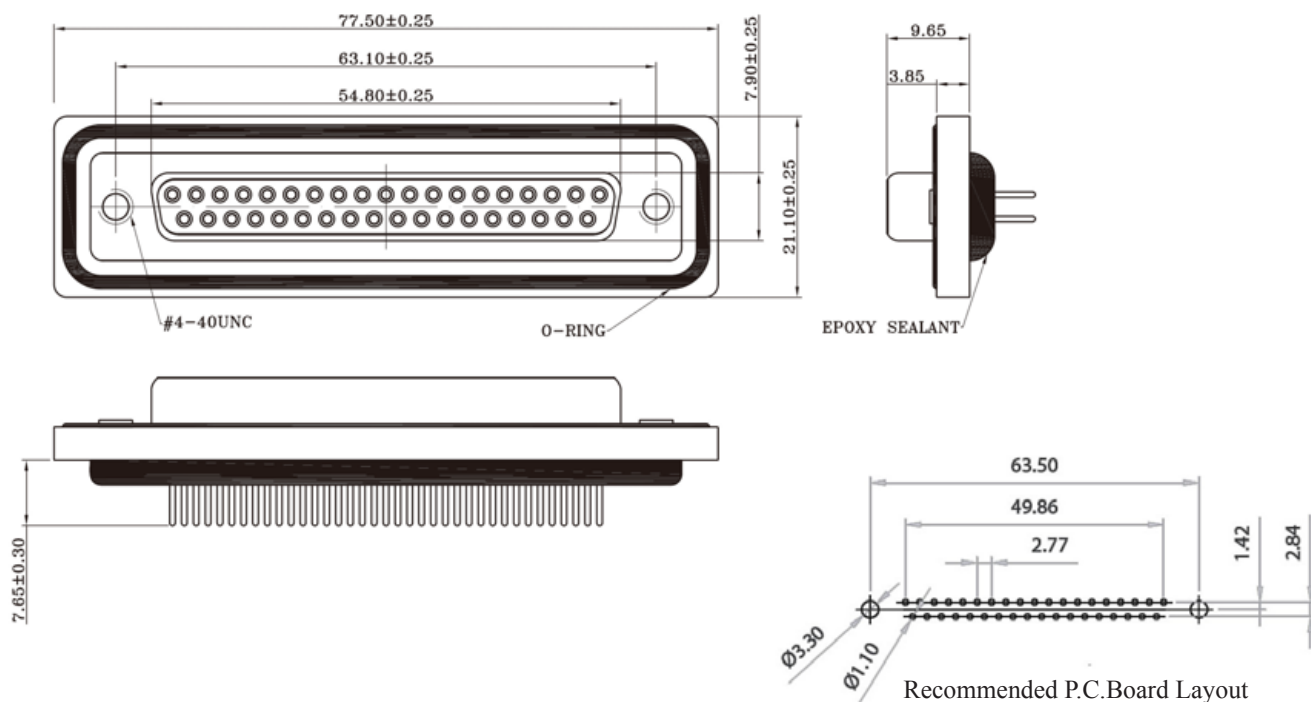
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 04 WP - 37 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"04" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"37" DB37F
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF D-SUB. 9 PIN MALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

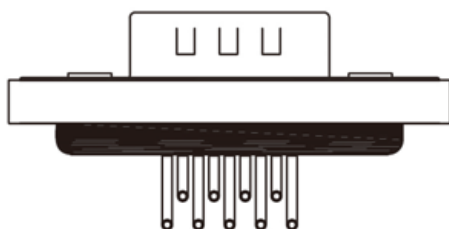
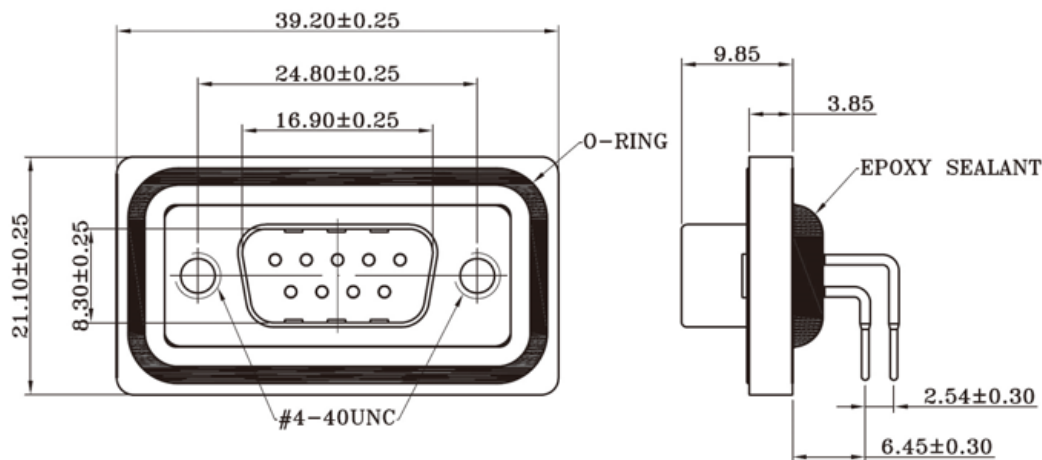
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

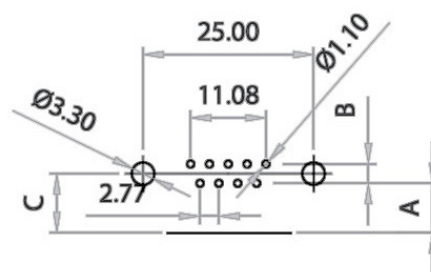
Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



	Dimensions(mm)
A	6.45
B	2.54
C	8.12



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 05 WP - 09 T B / XX
1 2 3 4

- CONNECTOR TYPE:
"05" MALE WITH MACHINED CONTACTS
- PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
- NO. OF CONTACTS:
"09" DB9M
- MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"1W" BRACKET #4-40UNC
WITH BOARD LOCKS
"1N" BRACKET #4-40UNC
WITHOUT BOARD LOCKS
"1S" BRACKET #4-40UNC
MOUNTING WITH BAKELITE

"1B" BRACKET #4-40UNC
MOUNTING WITH NUTS
ON FRONT SHELL

WATERPROOF D-SUB. 15 PIN MALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

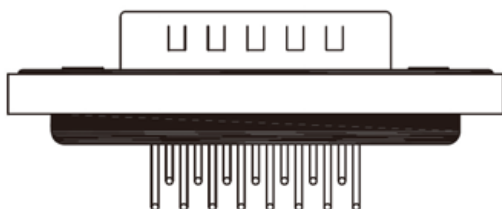
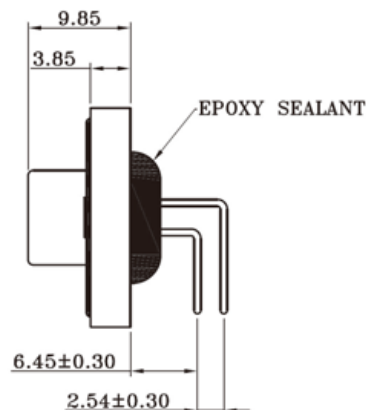
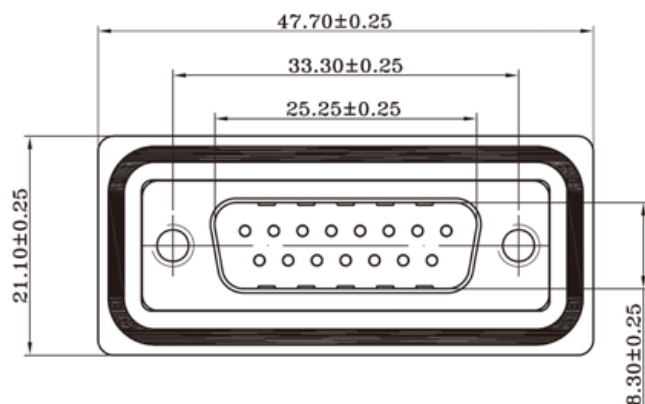
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

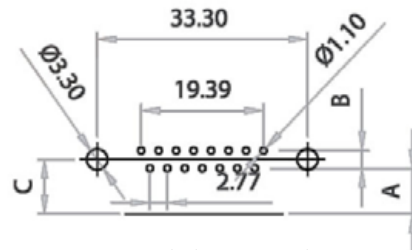
Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



	Dimensions(mm)
A	6.45
B	2.54
C	8.12



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 05 WP - 15 T B / XX
1 2 3 4

- CONNECTOR TYPE:
"05" MALE WITH MACHINED CONTACTS
- PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
- NO. OF CONTACTS:
"15" DB15M
- MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"1W" BRACKET #4-40UNC
WITH BOARD LOCKS
"1N" BRACKET #4-40UNC
WITHOUT BOARD LOCKS
"1S" BRACKET #4-40UNC
MOUNTING WITH BAKELITE

"1B" BRACKET #4-40UNC
MOUNTING WITH NUTS
ON FRONT SHELL

WATERPROOF D-SUB. 25 PIN MALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

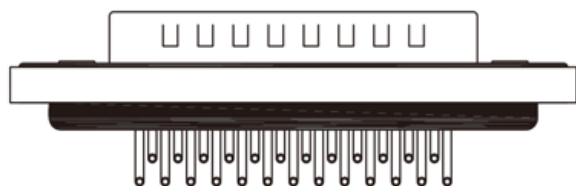
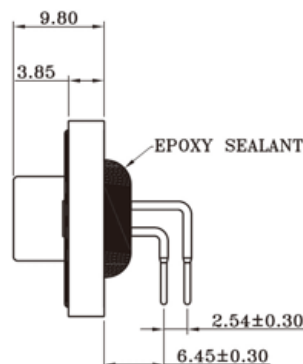
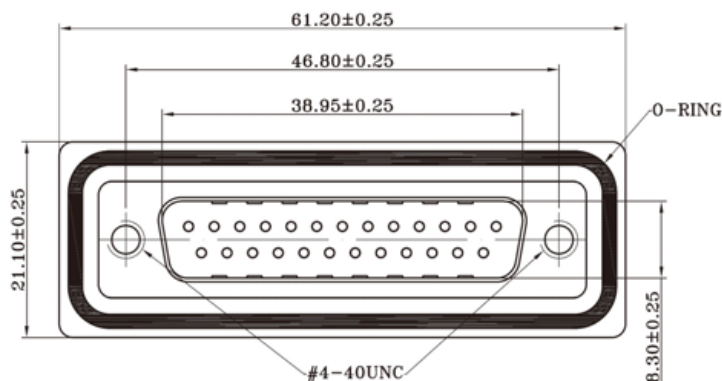
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

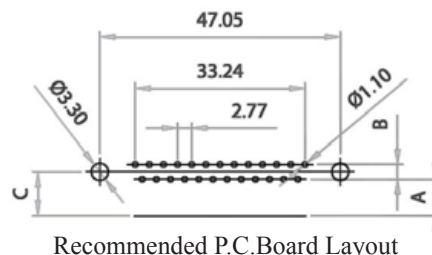
Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



	Dimensions(mm)
A	6.45
B	2.54
C	8.12



ORDERING INFORMATION:

P/N 5 1 05 WP - 25 T B / XX
1 2 3 4

- CONNECTOR TYPE:
"05" MALE WITH MACHINED CONTACTS
- PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
- NO. OF CONTACTS:
"25" DB25M
- MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"1W" BRACKET #4-40UNC
WITH BOARD LOCKS
"1N" BRACKET #4-40UNC
WITHOUT BOARD LOCKS
"1S" BRACKET #4-40UNC
MOUNTING WITH BAKELITE

"1B" BRACKET #4-40UNC
MOUNTING WITH NUTS
ON FRONT SHELL

WATERPROOF D-SUB. 37 PIN MALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Singal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

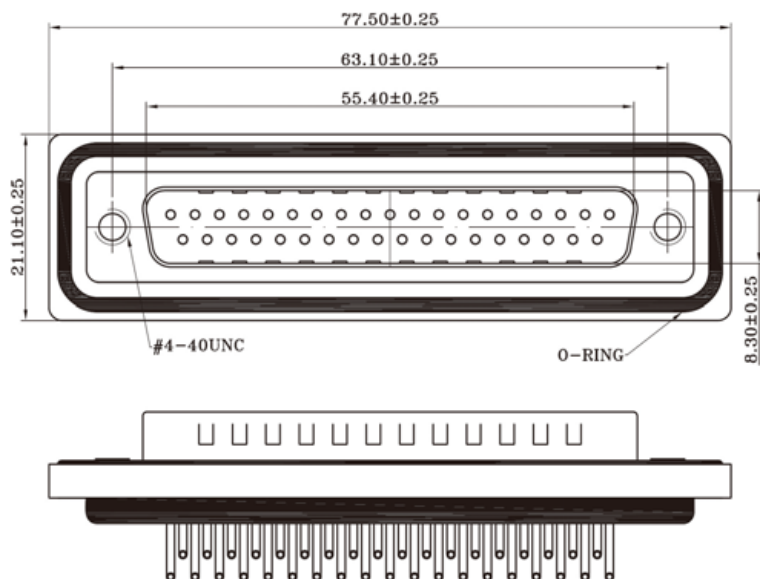
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

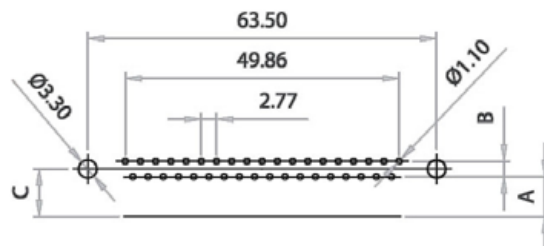
Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



	Dimensions(mm)
A	6.45
B	2.54
C	8.12



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 05 WP - 37 T B / XX
1 2 3 4

- CONNECTOR TYPE:
"05" MALE WITH MACHINED CONTACTS
- PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
- NO. OF CONTACTS:
"37" DB37M
- MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"1W" BRACKET #4-40UNC
WITH BOARD LOCKS
"1N" BRACKET #4-40UNC
WITHOUT BOARD LOCKS
"1S" BRACKET #4-40UNC
MOUNTING WITH BAKELITE

"1B" BRACKET #4-40UNC
MOUNTING WITH NUTS
ON FRONT SHELL

WATERPROOF D-SUB. 9 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Singal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

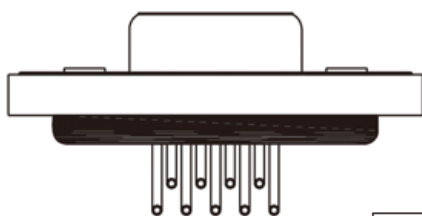
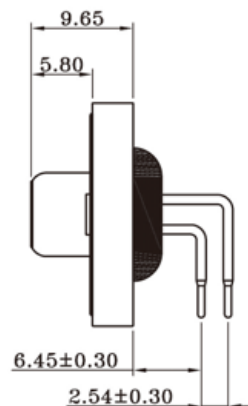
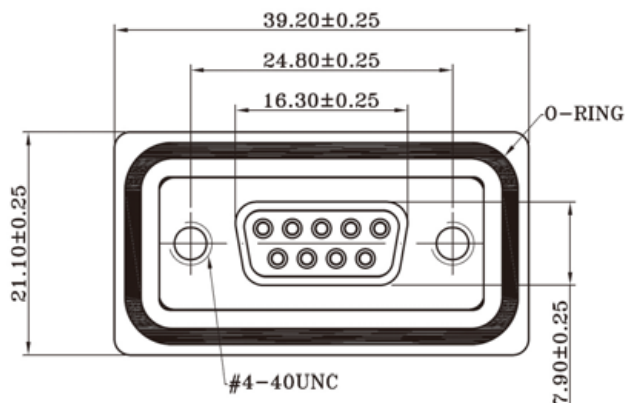
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

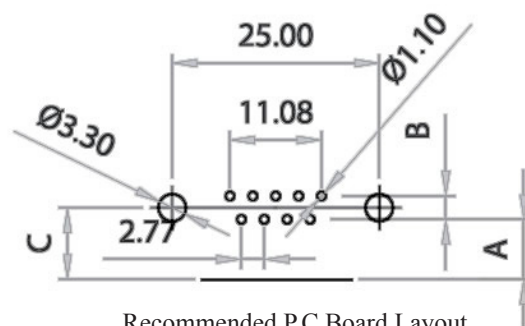
Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



	Dimensions(mm)
A	6.45
B	2.54
C	8.12



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 0 6 W P - 0 9 T B / X X
1 2 3 4

1. CONNECTOR TYPE:

"06" FEMALE WITH MACHINED CONTACTS

2. PROTECTION TYPE:

"WP" IP67 DEGREE WATERPROOF

3. NO. OF CONTACTS:

"09" DB9F

4. MOUTING OPTION:

" " #4-40UNC MOUNTING HOLES

"1W" BRACKET #4-40UNC
WITH BOARD LOCKS

"1N" BRACKET #4-40UNC
WITHOUT BOARD LOCKS

"1S" BRACKET #4-40UNC
MOUNTING WITH BAKELITE

"1B" BRACKET #4-40UNC

MOUNTING WITH NUTS
ON FRONT SHELL

WATERPROOF D-SUB. 15 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Singal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

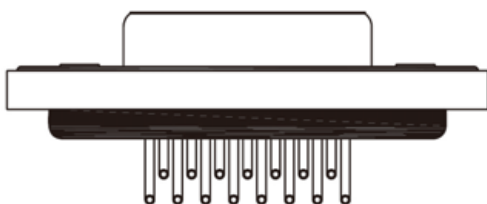
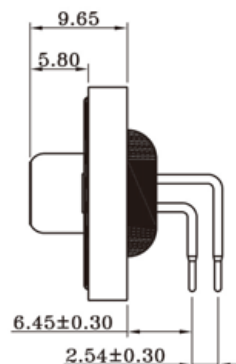
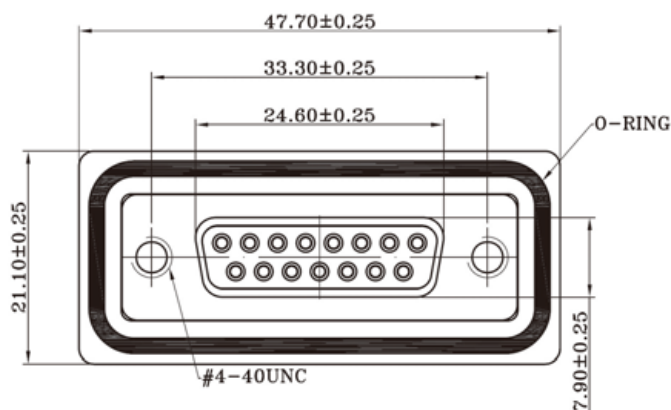
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

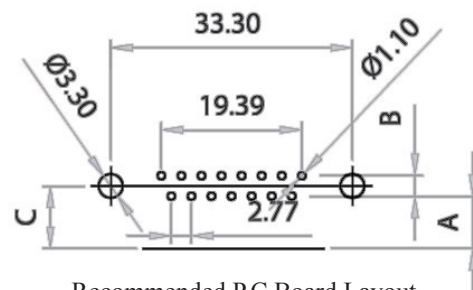
Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



	Dimensions(mm)
A	6.45
B	2.54
C	8.12



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 06 WP - 15 T B / XX
1 2 3 4

- CONNECTOR TYPE:
"06" FEMALE WITH MACHINED CONTACTS
- PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
- NO. OF CONTACTS:
"15" DB15F
- MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"1W" BRACKET #4-40UNC
WITH BOARD LOCKS
"1N" BRACKET #4-40UNC
WITHOUT BOARD LOCKS
"1S" BRACKET #4-40UNC
MOUNTING WITH BAKELITE

"1B" BRACKET #4-40UNC
MOUNTING WITH NUTS
ON FRONT SHELL

WATERPROOF D-SUB. 25 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

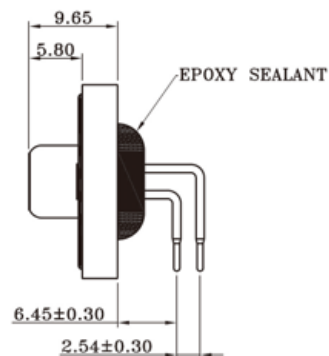
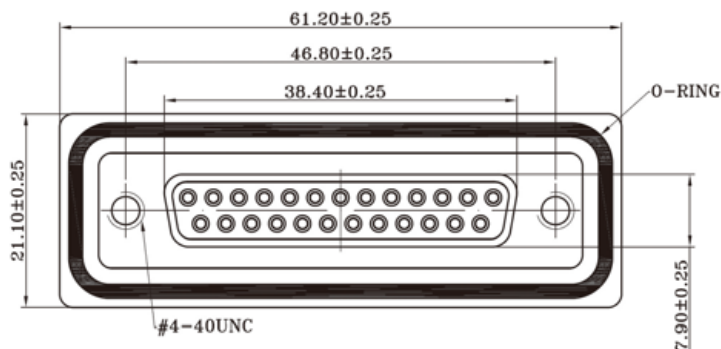
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

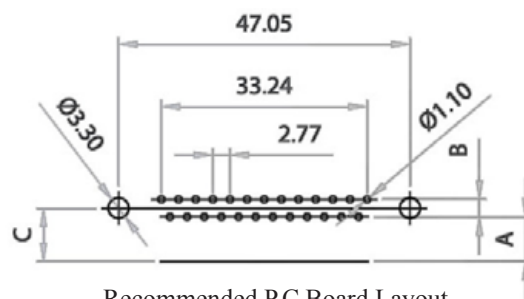
Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



	Dimensions(mm)
A	6.45
B	2.54
C	8.12



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 06 WP - 25 T B / XX
1 2 3 4

- CONNECTOR TYPE:
"06" FEMALE WITH MACHINED CONTACTS
- PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
- NO. OF CONTACTS:
"25" DB25F
- MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"1W" BRACKET #4-40UNC
WITH BOARD LOCKS
"1N" BRACKET #4-40UNC
WITHOUT BOARD LOCKS
"1S" BRACKET #4-40UNC
MOUNTING WITH BAKELITE

"1B" BRACKET #4-40UNC
MOUNTING WITH NUTS
ON FRONT SHELL

WATERPROOF D-SUB. 37 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 5.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

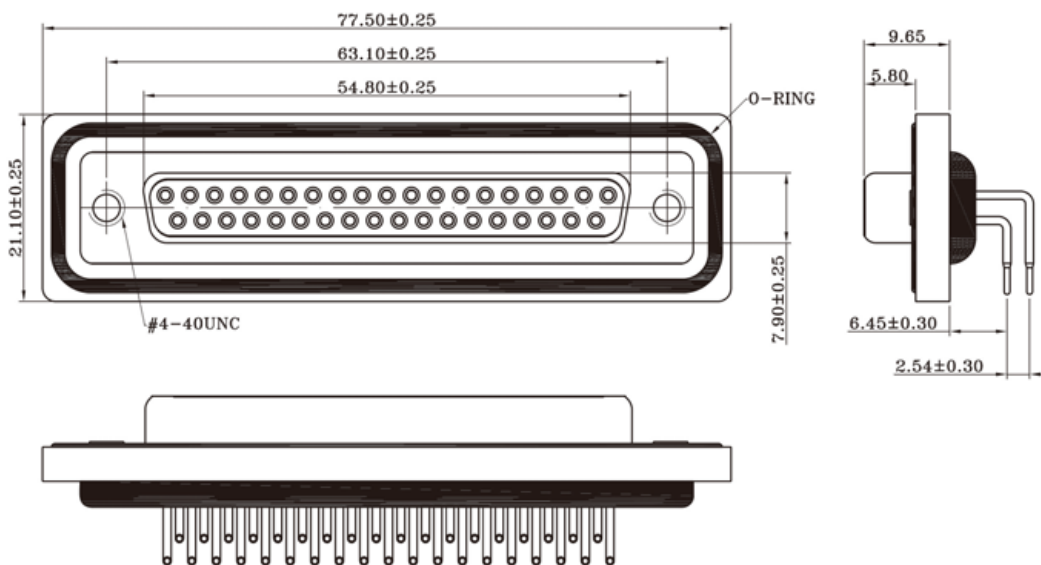
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

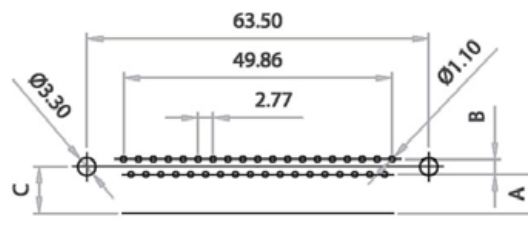
Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



	Dimensions(mm)
A	6.45
B	2.54
C	8.12



Recommended P.C. Board Layout

ORDERING INFORMATION:

P/N 5 1 06 WP - 37 T B / XX
1 2 3 4

- CONNECTOR TYPE:
"06" FEMALE WITH MACHINED CONTACTS
- PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
- NO. OF CONTACTS:
"37" DB37F
- MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"1W" BRACKET #4-40UNC
WITH BOARD LOCKS
"1N" BRACKET #4-40UNC
WITHOUT BOARD LOCKS
"1S" BRACKET #4-40UNC
MOUNTING WITH BAKELITE

"1B" BRACKET #4-40UNC
MOUNTING WITH NUTS
ON FRONT SHELL

WATERPROOF HIGH DENSITY D-SUB. 15 PIN MALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

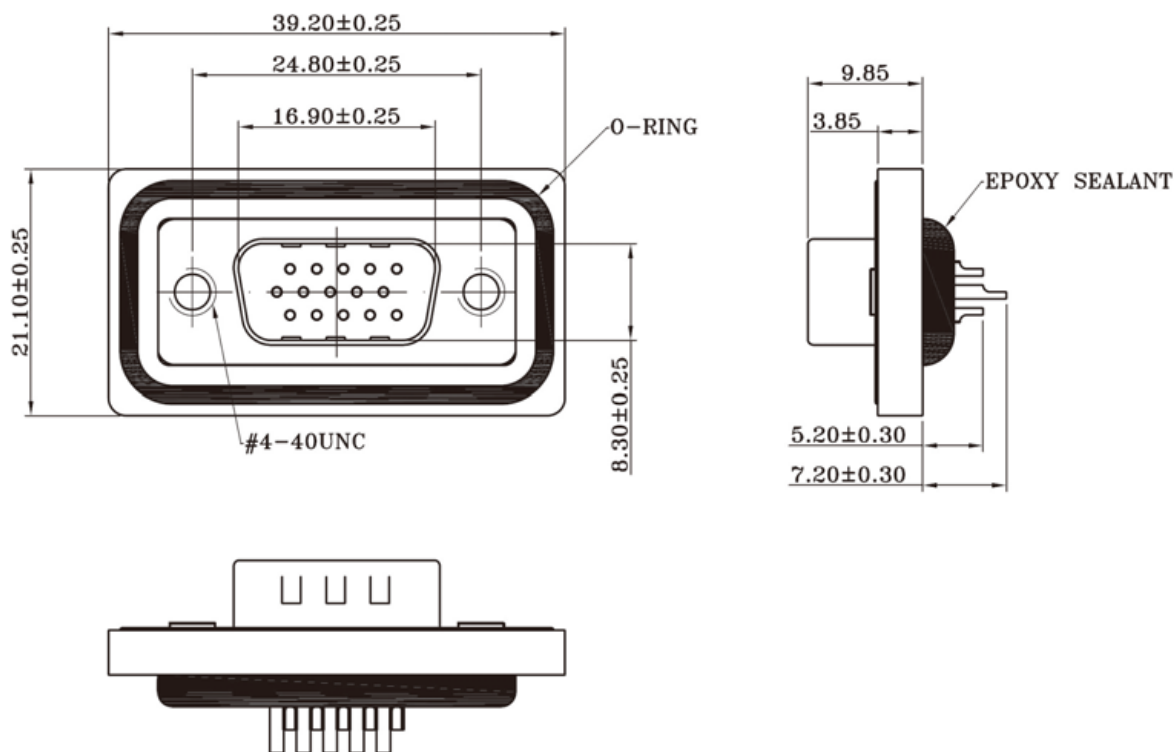
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 07 WP - 15 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"07" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"15" HD15M
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 26 PIN MALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Singal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

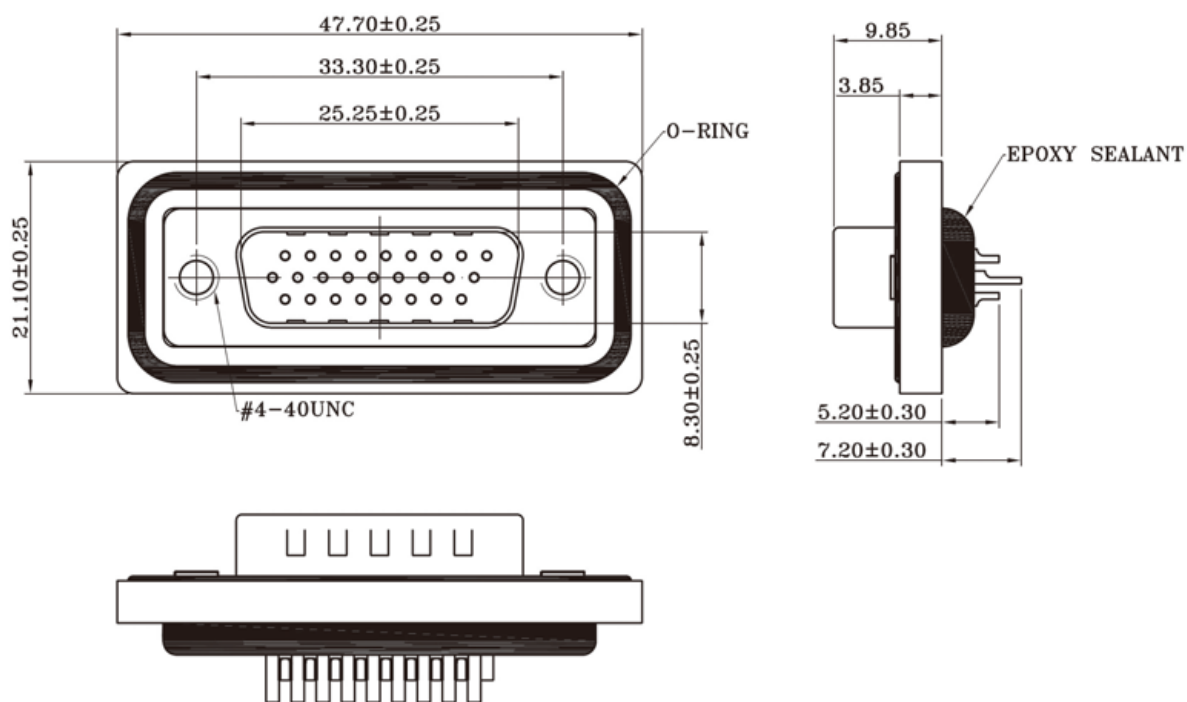
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 07 WP - 26 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"07" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"26" HD26M
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 44 PIN MALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

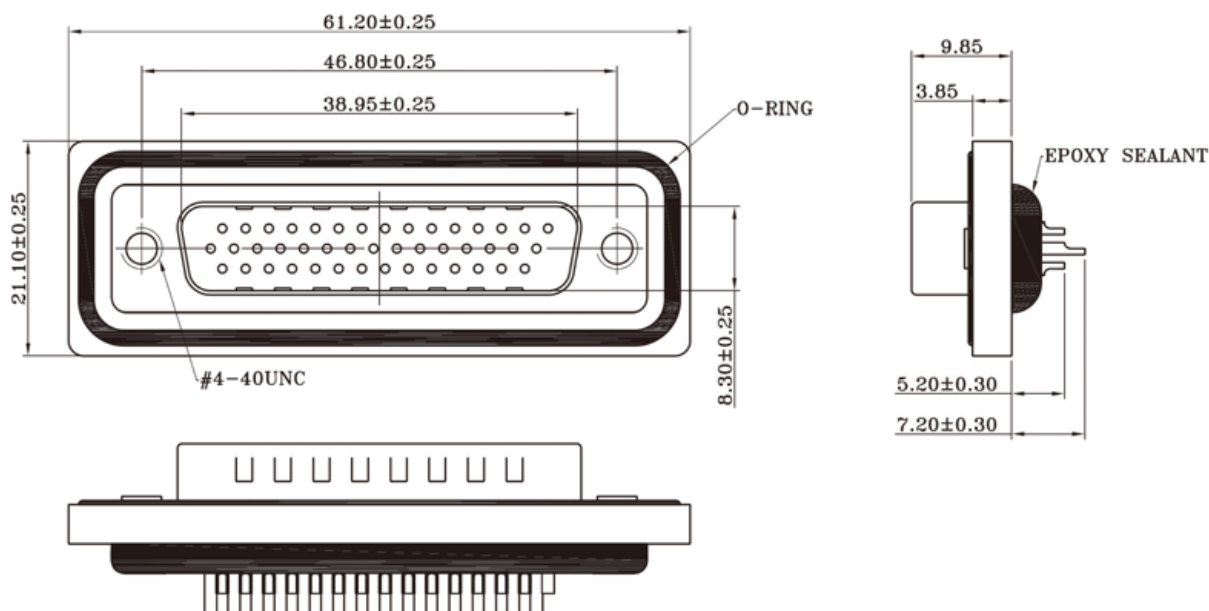
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 07 WP - 44 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"07" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"44" HD44M
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 62 PIN MALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

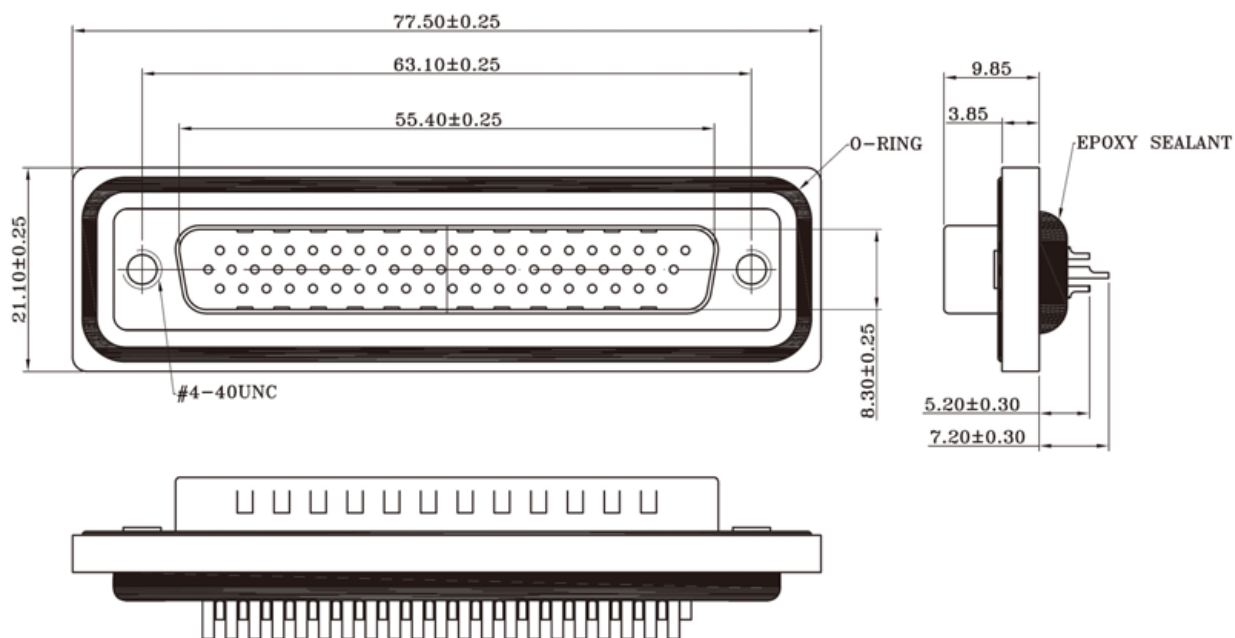
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

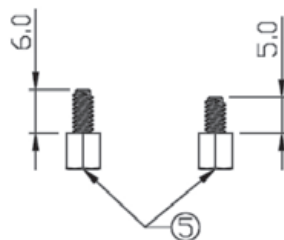
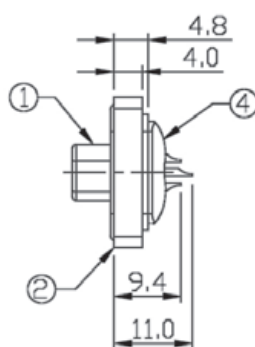
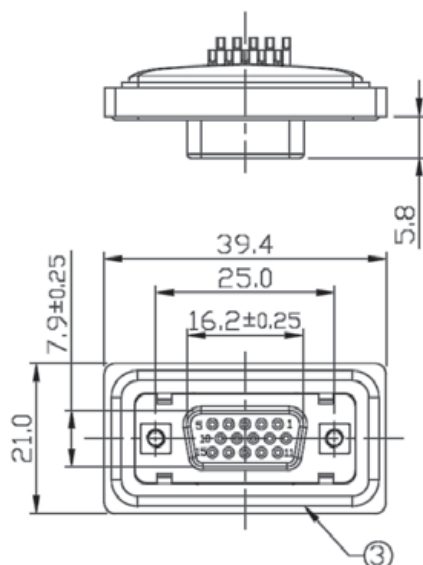
P/N 5 1 07 WP - 62 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"07" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"62" HD62M
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

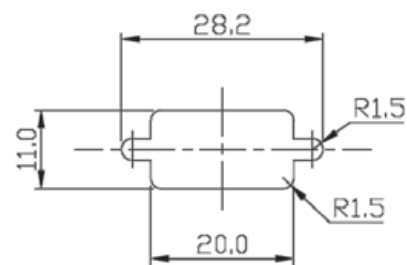
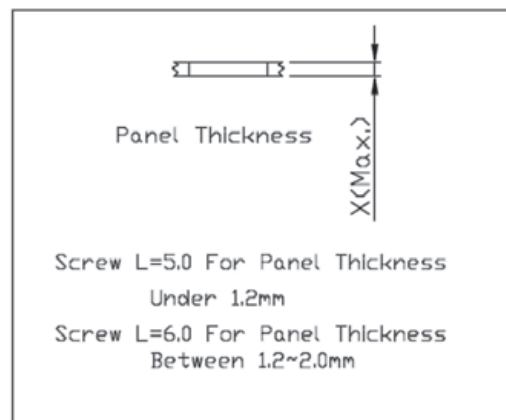
WATERPROOF HIGH DENSITY D-SUB. 5A 15 PIN FEMALE CONNECTOR PANEL MOUNT SOLDER TYPE

*RoHS & REACH compliant.

Unit: mm



Screws on The Separate Bag



Recommend Panel Cut-Out

ORDERING INFORMATION:

P/N W P H D - 15 F 5.6
1 2 3

1. NO. OF COTACTS:
15
2. CONTACT TYPE:
"F" FEMALE
3. SCREW THREAD LENGTHES:
"56" 5MM+6MM THREADED SCREWS

NOTE: MATES WITH CAP P/N WPDB-CAP01

WATERPROOF HIGH DENSITY D-SUB. 15 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

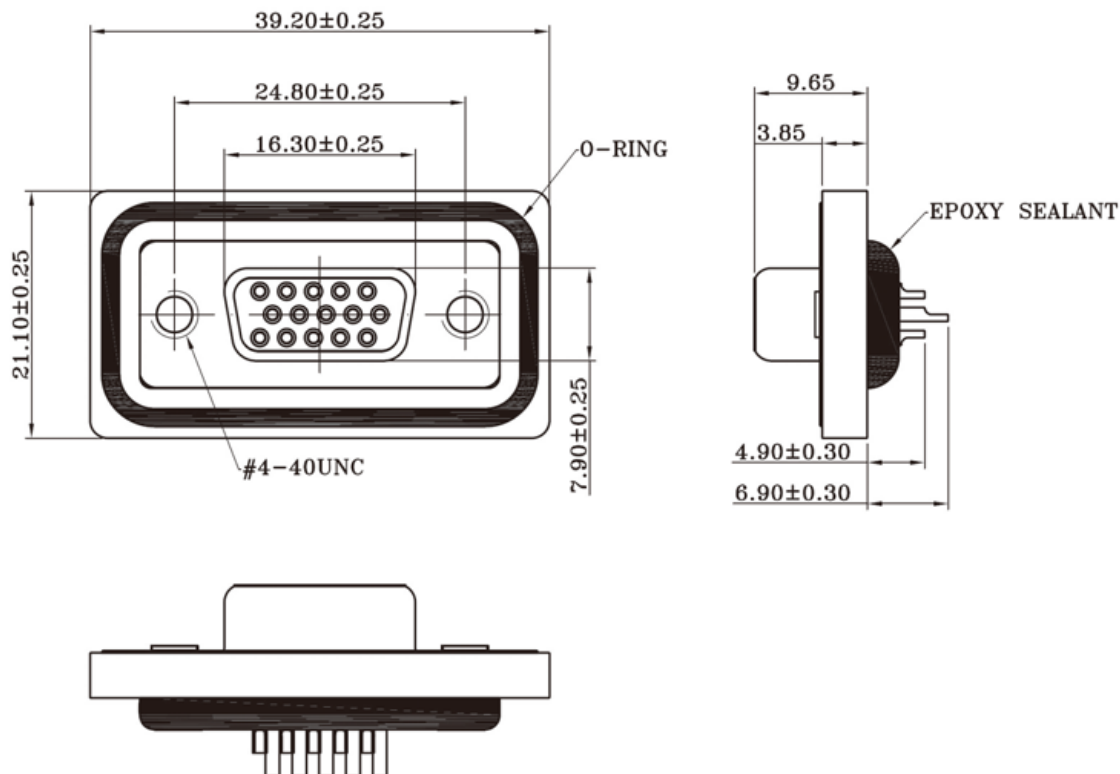
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 08 WP - 15 T B / XX
 1 2 3 4

1. CONNECTOR TYPE:
"08" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"15" HD15F
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 26 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

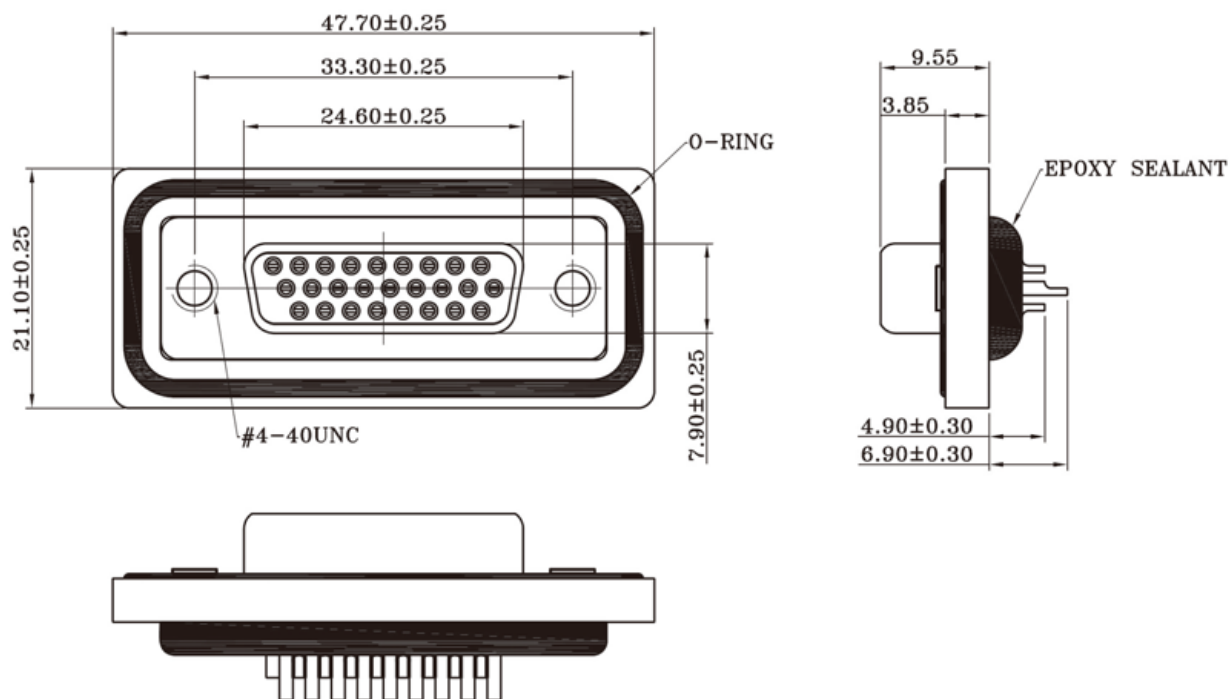
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 08 WP - 26 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"08" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"26" HD26F
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 44 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

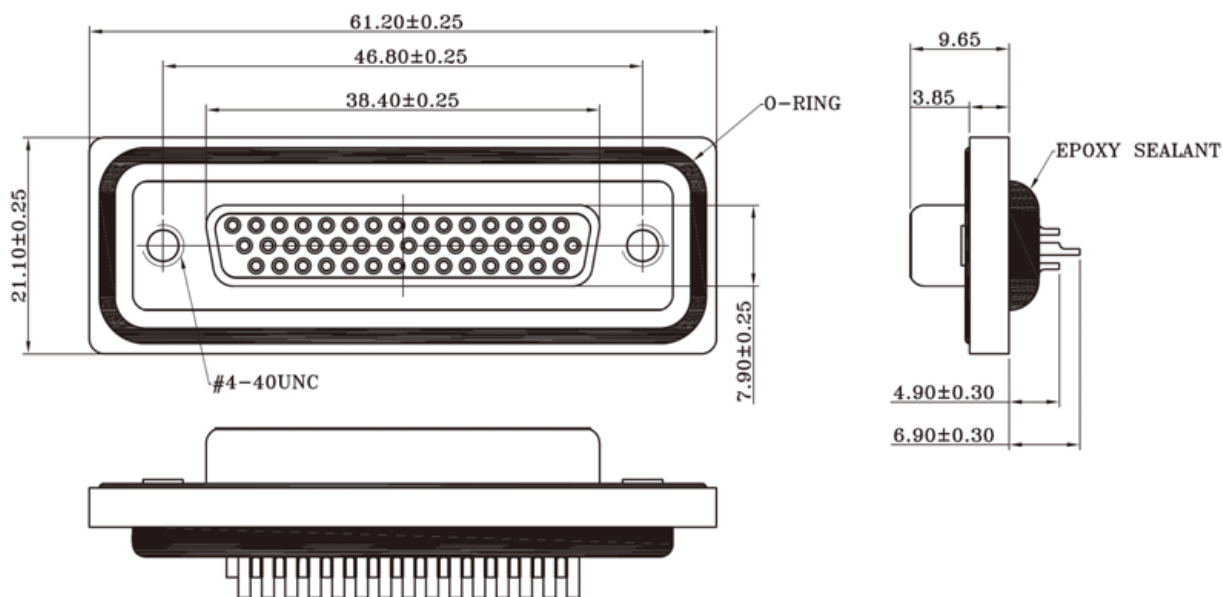
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 08 WP - 44 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"08" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"44" HD44F
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 62 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS SOLDER TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

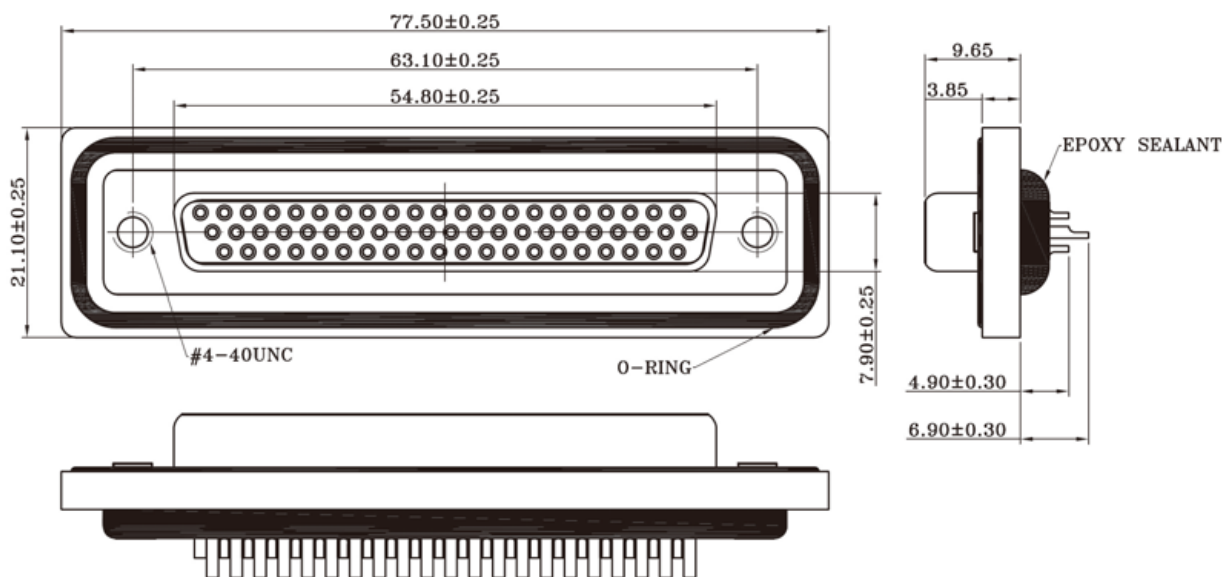
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 08 WP - 62 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"08" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"62" HD62F
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 15 PIN MALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Singal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

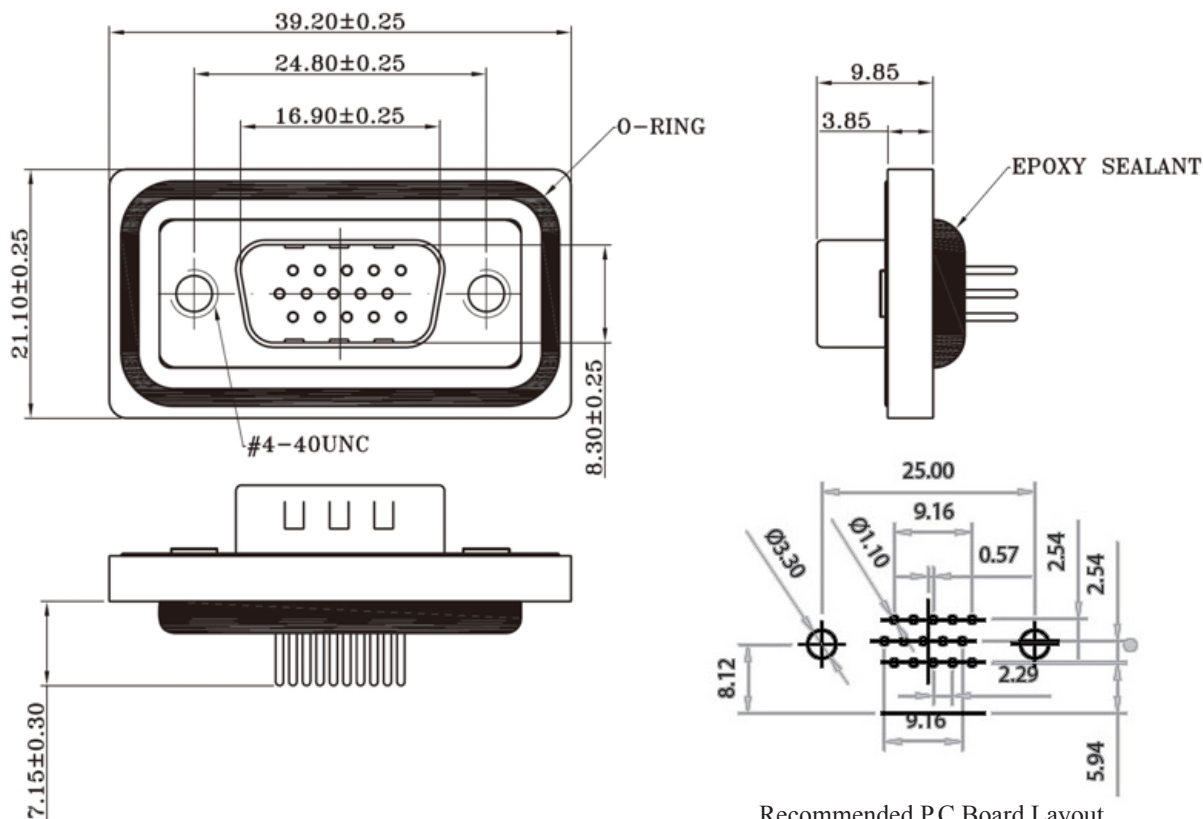
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 09 WP - 15 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"09" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"15" HD15M
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 26 PIN MALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

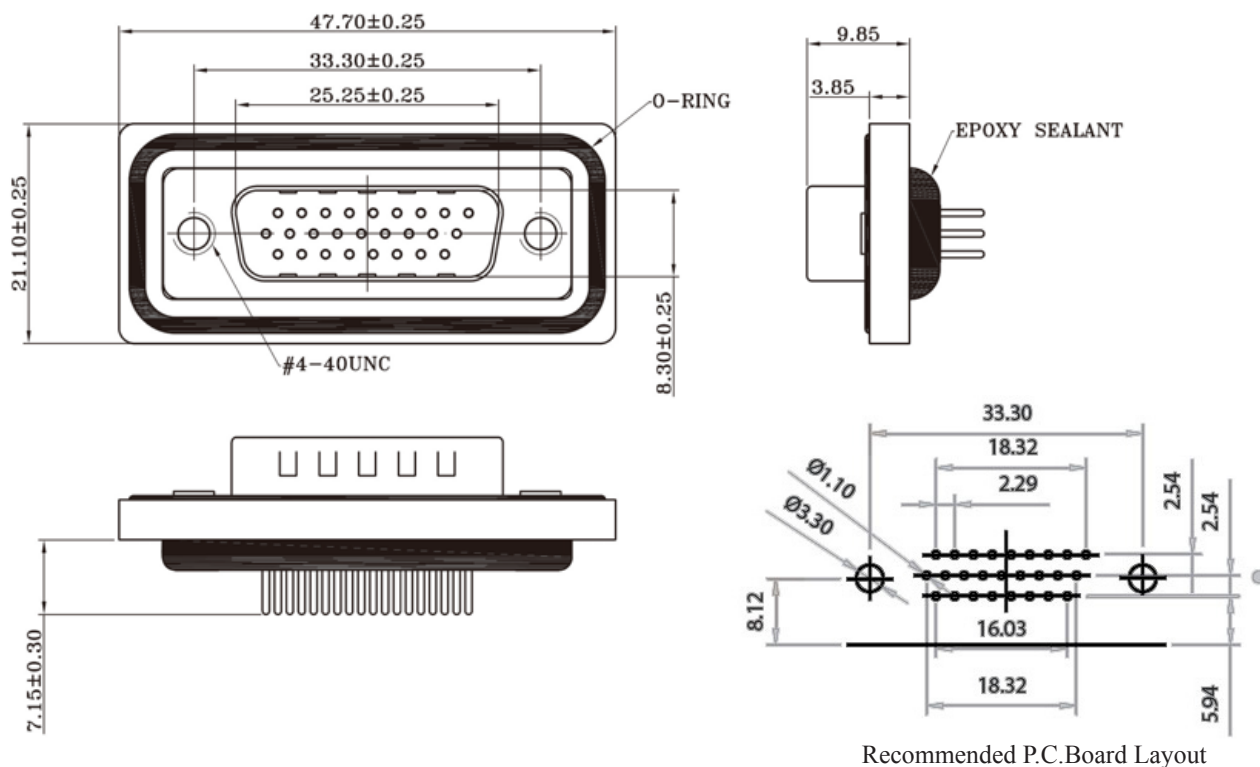
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



ORDERING INFORMATION:

P/N 5 1 09 WP - 26 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"09" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"26" HD26M
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 44 PIN MALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

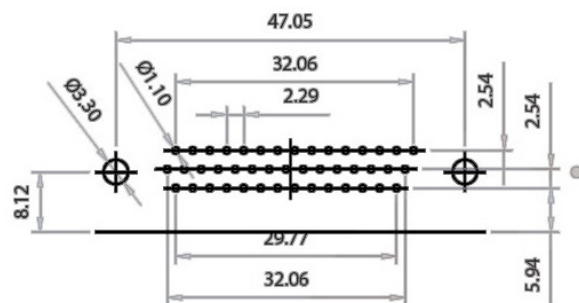
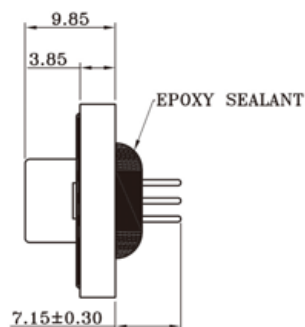
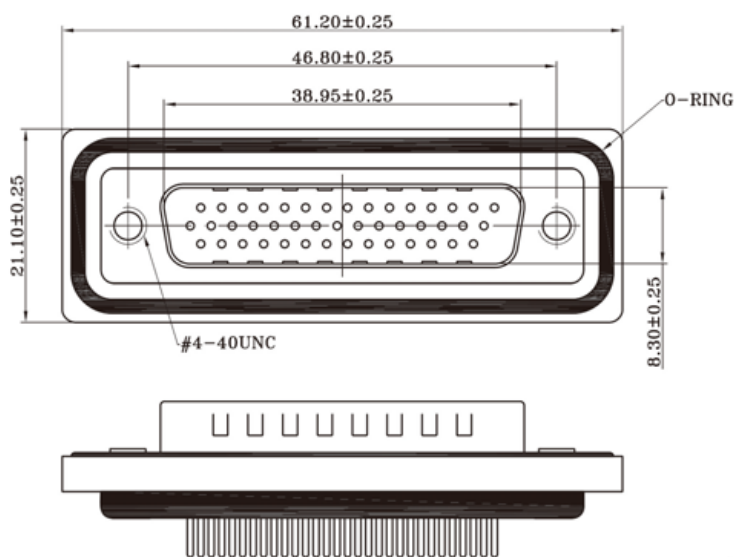
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 09 WP - 44 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"09" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"44" HD44M
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 62 PIN MALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

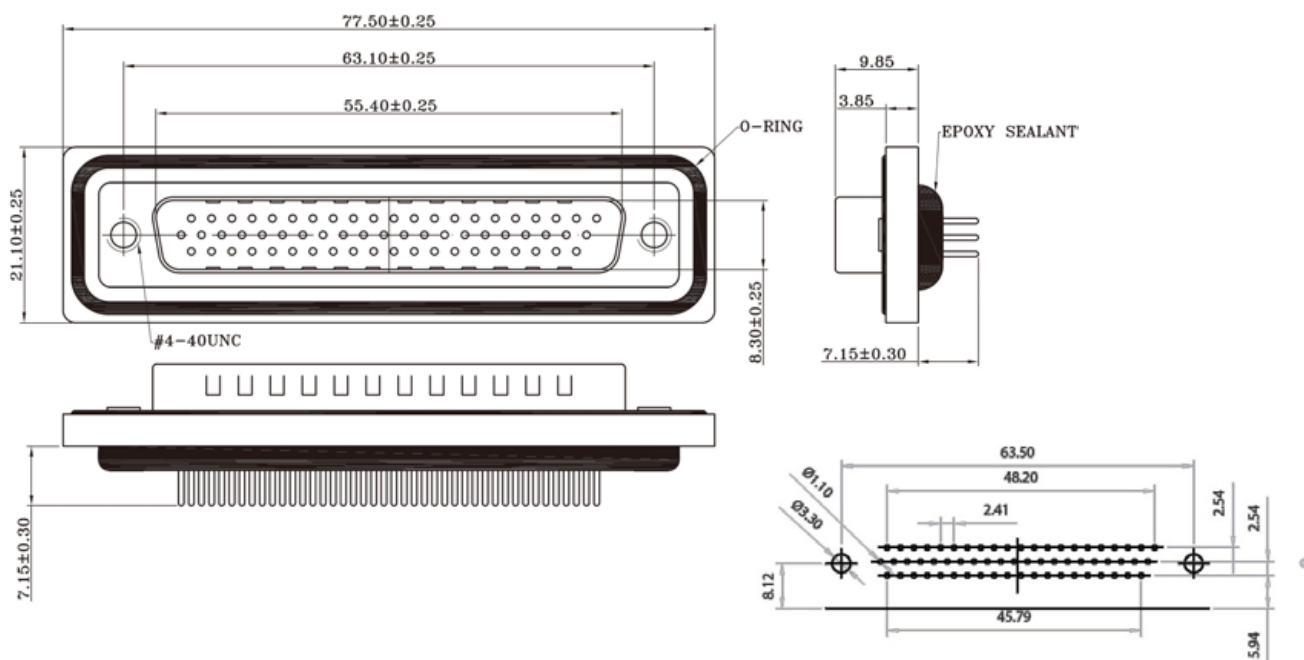
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 09 WP - 62 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"09" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"62" HD62M
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 15 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

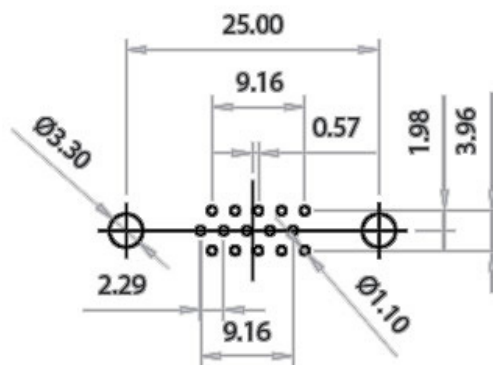
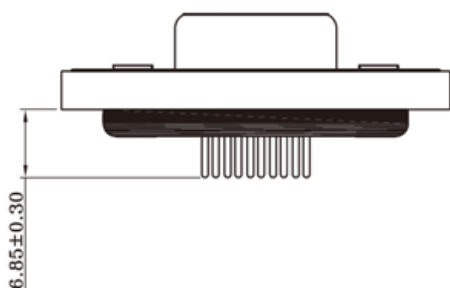
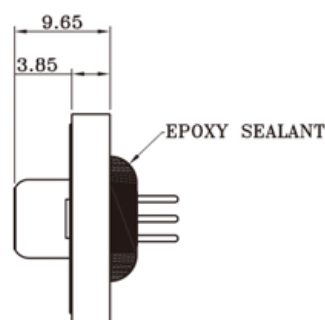
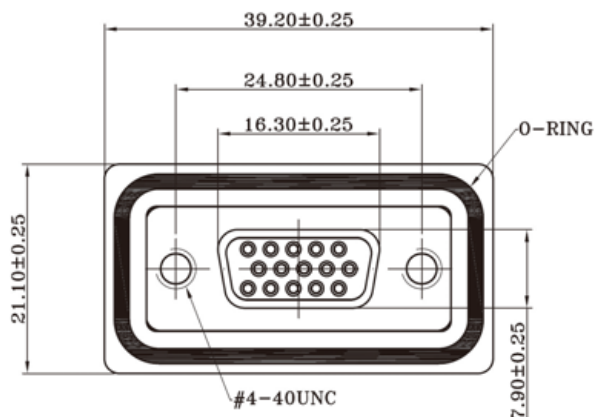
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 10 WP - 15 T B / XX
1 2 3 4

- CONNECTOR TYPE:
"10" FEMALE WITH MACHINED CONTACTS
- PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
- NO. OF CONTACTS:
"15" HD15F
- MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 26 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

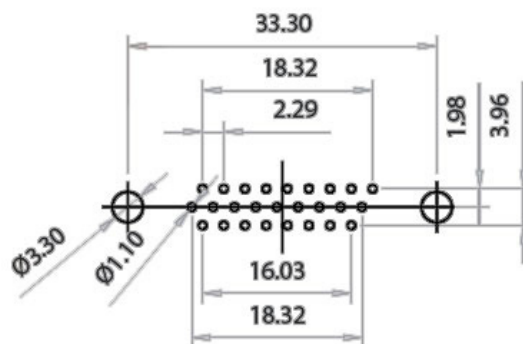
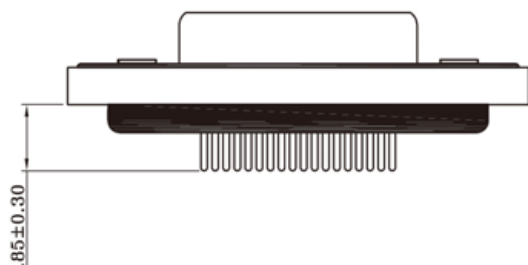
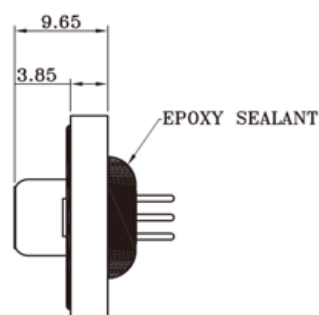
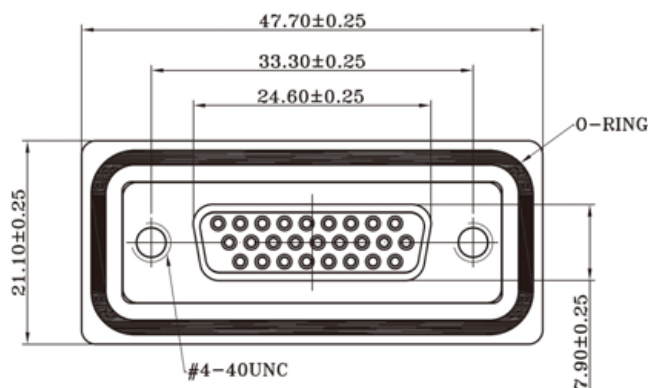
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 10 WP - 26 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"10" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"26" HD26F
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 44 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Singal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

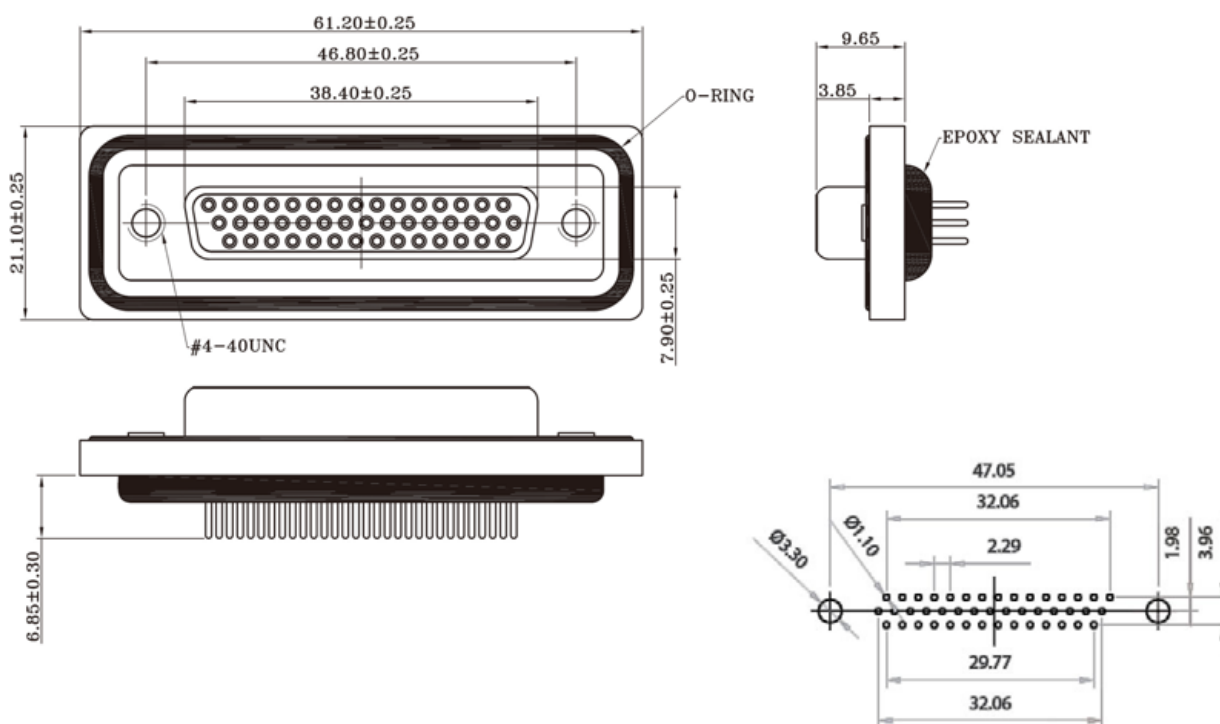
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 10 WP - 44 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"10" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"44" HD44F
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 62 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS STRAIGHT PCB MOUNT TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

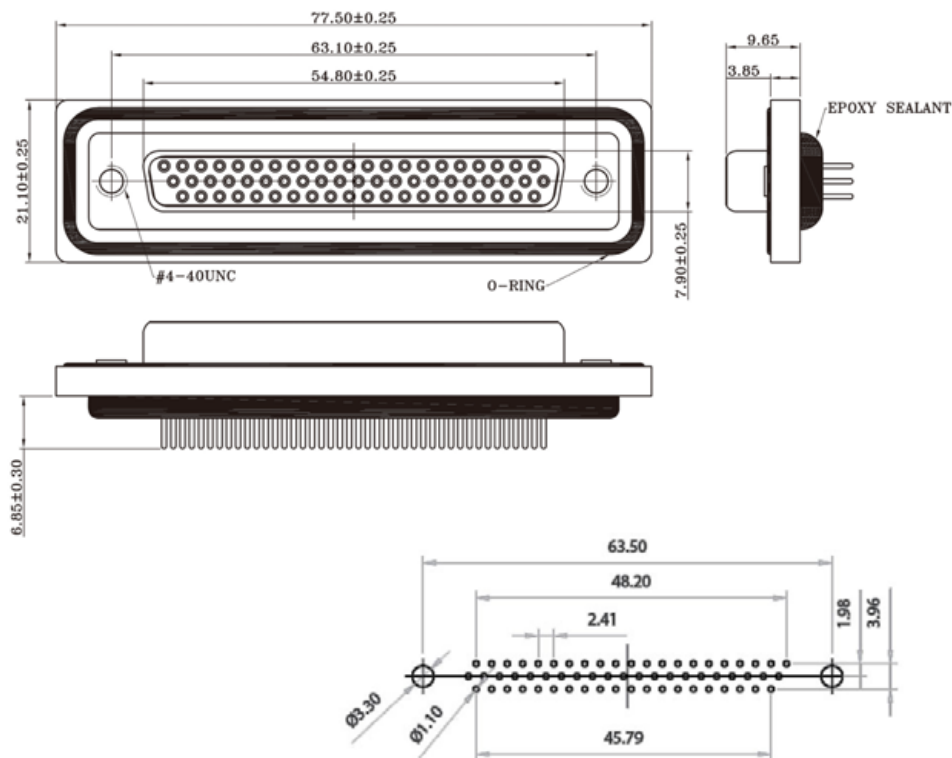
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 10 WP - 62 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"10" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"62" HD62F
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 15 PIN MALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

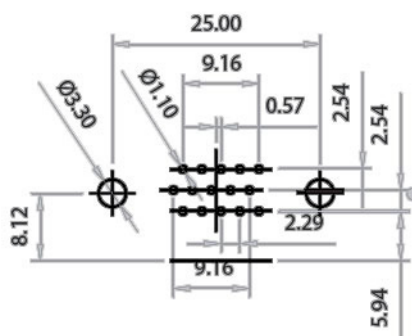
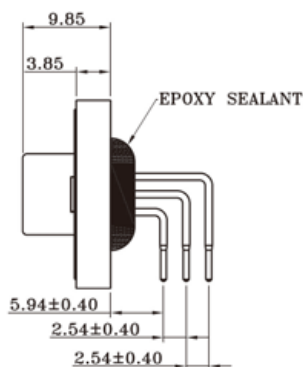
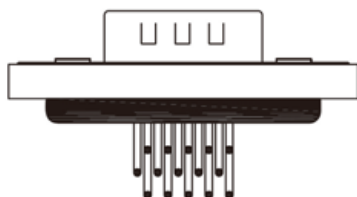
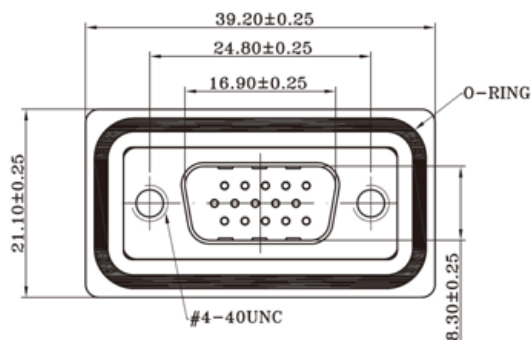
Insulation Resistance: 5GMΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 11 WP - 15 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"11" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"15" HD15M
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 26 PIN MALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

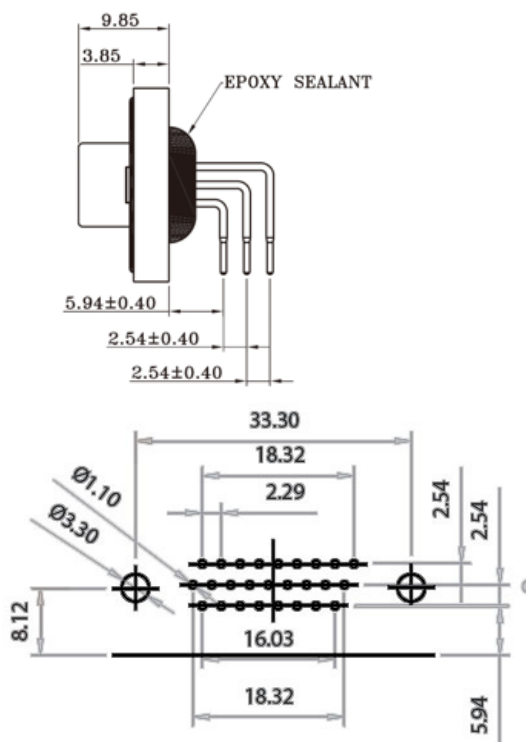
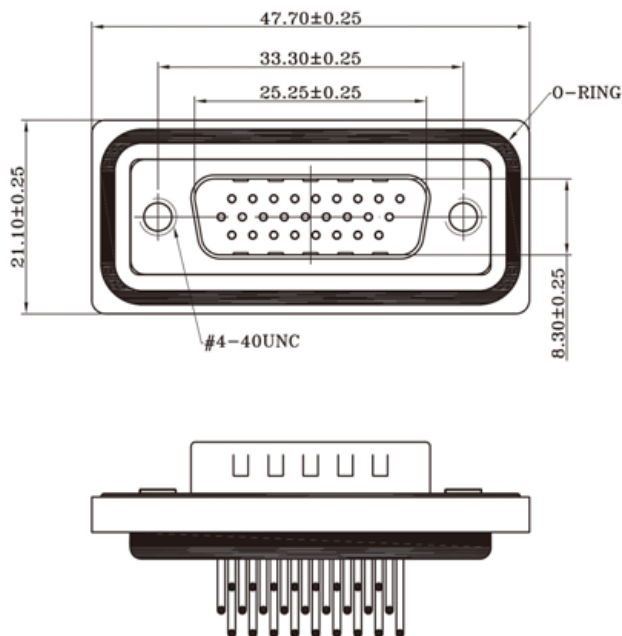
Insulation Resistance: 5GΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 11 WP - 26 T B / XX
 1 2 3 4

1. CONNECTOR TYPE:
"11" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"26" HD26M
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 44 PIN MALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

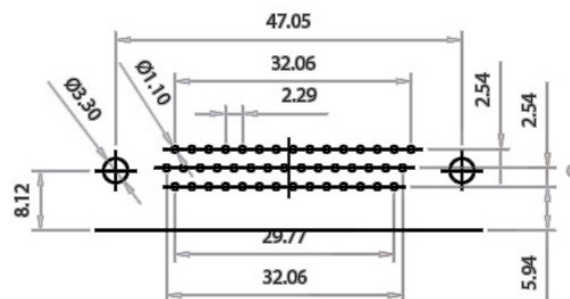
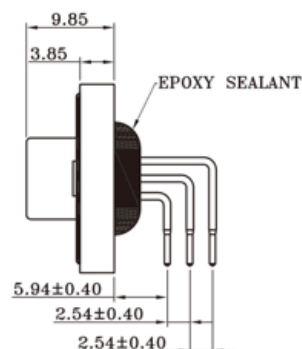
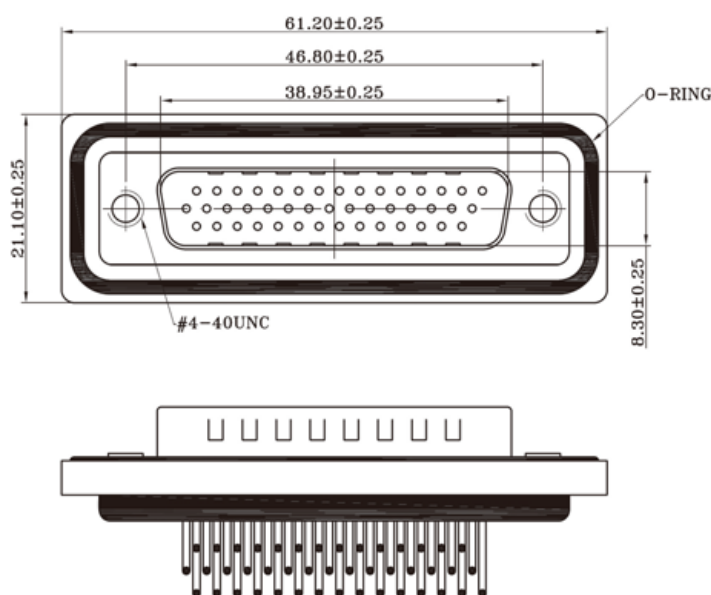
Insulation Resistance: 5GΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 11 WP - 44 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"11" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"44" HD44M
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 62 PIN MALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

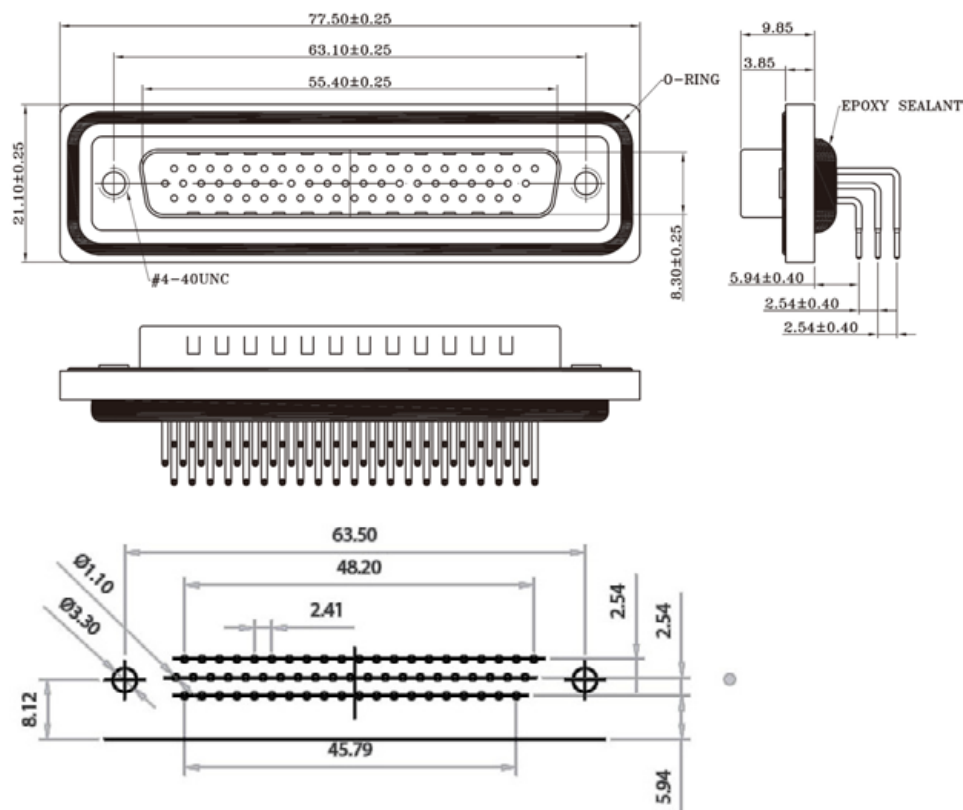
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 11 WP - 62 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"11" MALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"62" HD62M
4. MOUNTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 15 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (1)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Singal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

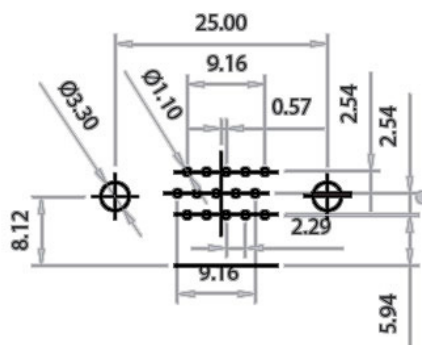
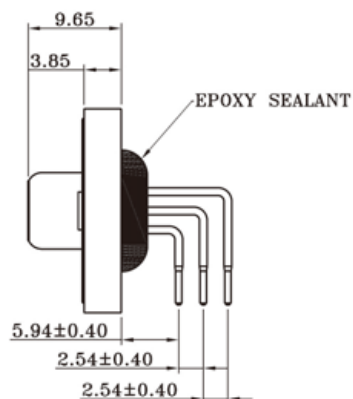
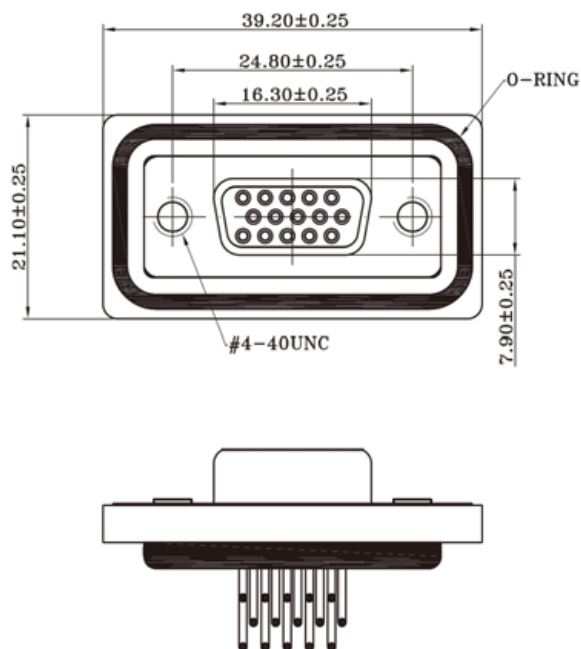
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 12 WP - 15 T B / XX
1 2 3 4

1. CONNECTOR TYPE:
"12" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"15" HD15F
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 26 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (2)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

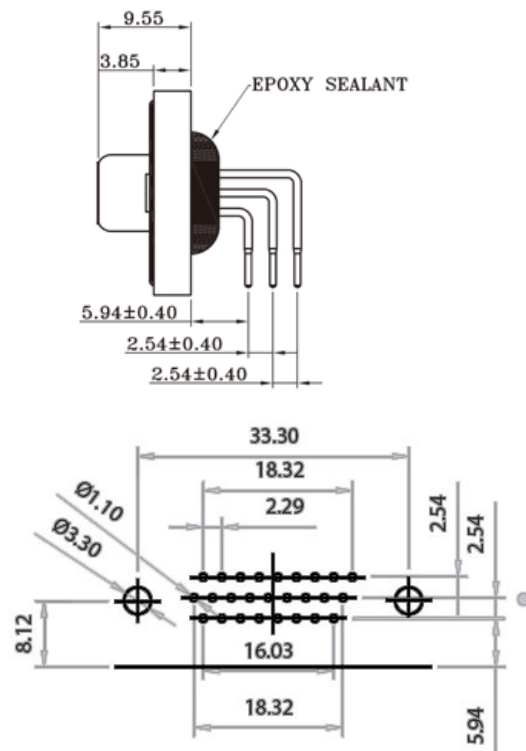
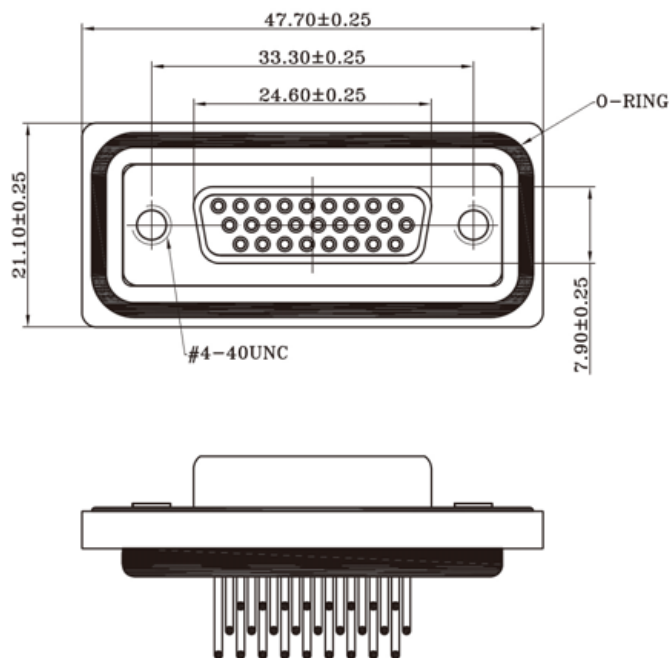
Insulation Resistance: 5GMOΩ min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 1 2 W P - 2 6 T B / X X

1. CONNECTOR TYPE:
"12" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"26" DB26F
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 44 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (3)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Signal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

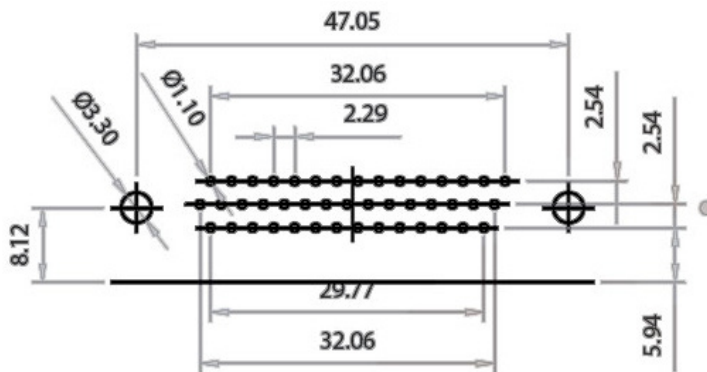
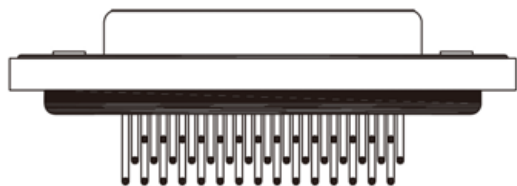
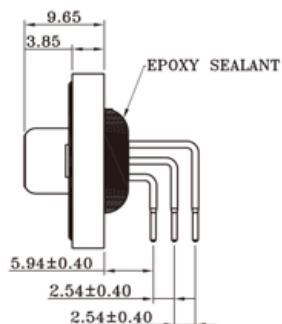
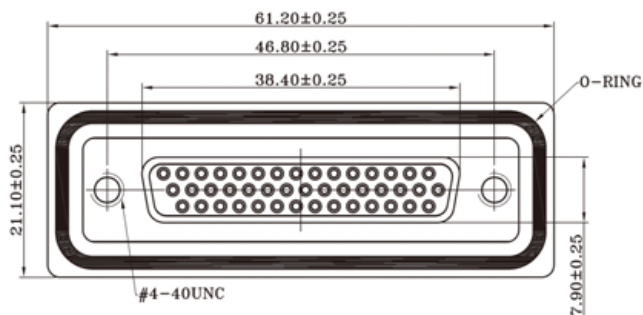
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C. Board Layout

ORDERING INFORMATION:

P/N 5 1 1 2 W P - 4 4 T B / X X
1 2 3 4

- CONNECTOR TYPE:
"12" FEMALE WITH MACHINED CONTACTS
- PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
- NO. OF CONTACTS:
"44" HD44F
- MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

WATERPROOF HIGH DENSITY D-SUB. 62 PIN FEMALE CONNECTOR WITH MACHINED CONTACTS RIGHT ANGLE DIP TYPE (4)

MATERIALS:

Shell: Steel Material, Tin Finished

Insulator: PBT GF, UL 94V-0, Black

Singal Contact: Copper Alloy, Gold Flash

Metal Watertight Frame: PBT GF, UL 94V-0, Black

O-Ring: Silicone

Epoxy Sealant: Epoxy

Unit: mm

SPECIFICATION:

Signal Contact Current Rating: 3.0A

Signal Contact Resistance: 10 mΩ Max.

Dielectric Withstanding Voltage:

1000 V for 1 min.

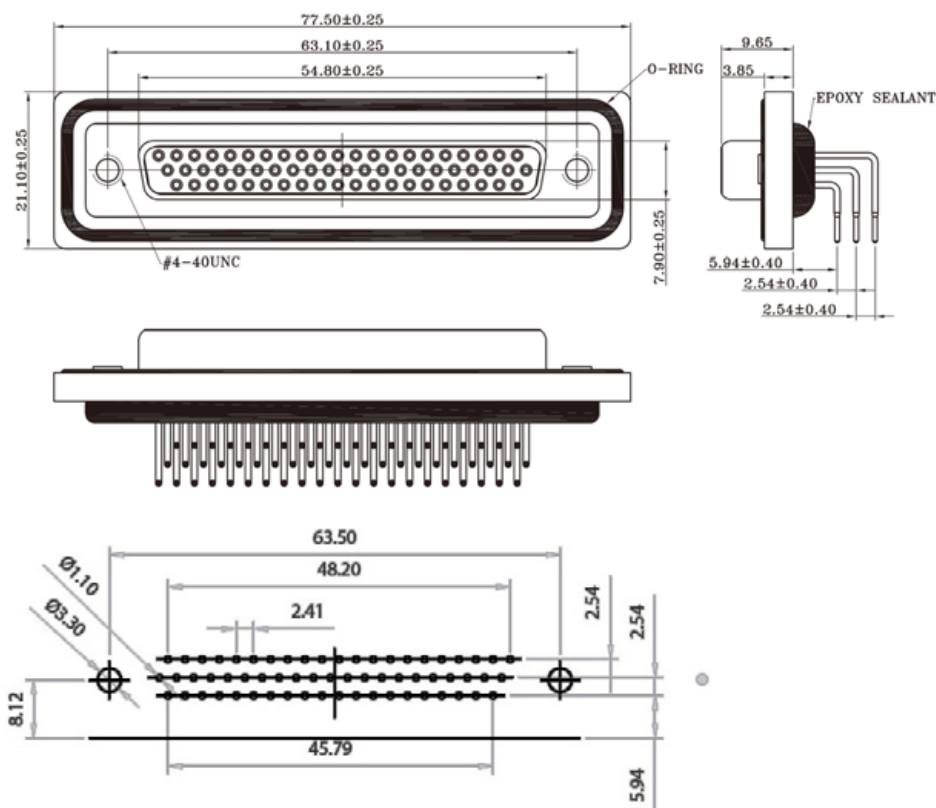
Insulation Resistance: 5GMO min.

Temperature Rating: -55°C to 105°

Degree of Protection:

CIP67 According to IEC 60529

All materials must be RoHS compliant.



Recommended P.C.Board Layout

ORDERING INFORMATION:

P/N 5 1 1 2 W P - 6 2 T B / X X

1. CONNECTOR TYPE:
"12" FEMALE WITH MACHINED CONTACTS
2. PROTECTION TYPE:
"WP" IP67 DEGREE WATERPROOF
3. NO. OF CONTACTS:
"62" HD62F
4. MOUTING OPTION:
" " #4-40UNC MOUNTING HOLES
"J" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON FRONT SHELL
"K" RIVETED #4-40UNC 4.0MM
OPEN NUTS ON BACK SHELL
"K6" RIVETED #4-40UNC 5.8MM
OPEN NUTS ON BACK SHELL

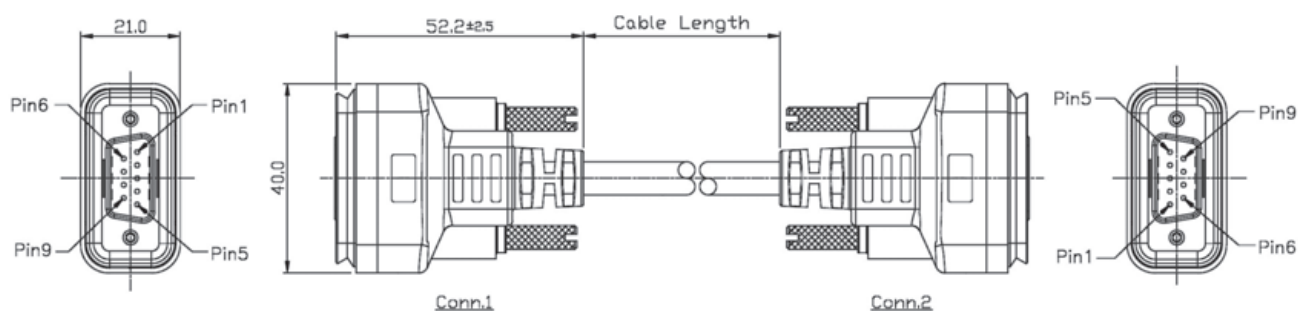
WATERPROOF CABLE WITH IP67 RATED D-SUB. CONNECTOR TO D-SUB. CONNECTOR

NOTES:

1. Waterproof Rate: IP67

2. RoHS & REACH compliance

*Unit: mm



P/N KWP09MM-xxM

1	Brown	1
2	Blue	2
3	Orange	3
4	Green	4
5	Yellow	5
6	Gray	6
7	Violet	7
8	Red	8
9	Black	9
Shell	Drain	Shell

Conn.1 Conn.2

Wiring Diagram

ORDERING INFORMATION:

P/N KWP 1 2 3 - xxM

1. NO. OF CONTACTS:

09, 15, 25, 37, 50

2. CONNECTOR TYPE AT 2 ENDS:

"MM" MALE TO MALE

"MF" MALE TO FEMALE

"FF" FEMALE TO FEMALE

3. CABLE LENGTH IN METERS:

0.5M, 1M, 2M,...etc.