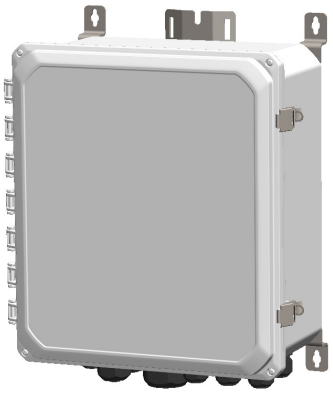
# Hybrid Fiber/Power Terminal with Overvoltage Protection
## Installation Instructions

A BELDEN BRAND

## Overview

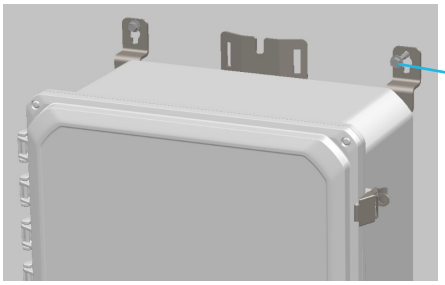
The PPC Hybrid Fiber/Power Terminal with Overvoltage Protection is designed to distribute power and fiber connectivity for outdoor wireless networks while providing equipment protection from lightening strikes. Configurations are available to support three, four, or six radios and gland diameters for standard and armored FTTA jumper assemblies.



| PPC Part # | Description |
|---|---|
| TL112D03A0B10C00W0 | TERMINAL,HYBRID WITH OVP,3 RRU, 1/4" OD FTTA |
| TL112D03A0B10C01W0 | TERMINAL,HYBRID WITH OVP,3 RRU, 5/8" OD FTTA |
| TL116D04A0B10C00W0 | TERMINAL,HYBRID WITH OVP,4 RRU, 1/4" OD FTTA |
| TL116D04A0B10C01W0 | TERMINAL,HYBRID WITH OVP,4 RRU, 5/8" OD FTTA |
| TL124D06A0B10C00W0 | TERMINAL,HYBRID WITH OVP,6 RRU, 1/4" OD FTTA |
| TL124D06A0B10C01W0 | TERMINAL,HYBRID WITH OVP,6 RRU, 5/8" OD FTTA |

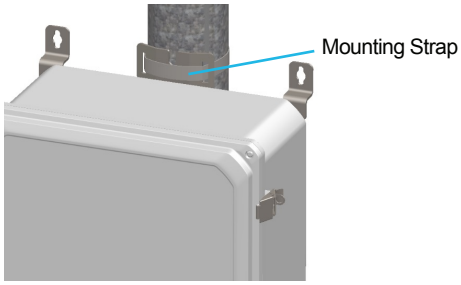
### Enclosure Mounting

*Wall Mount*




1. Measure distance of four corner holes
2. Drill pilot holes
3. Loosely install top screw
4. Level enclosure horizontally and vertically
5. Tighten top screws securely
6. Install bottom screws at outer holes

*Pole Mount with Straps*

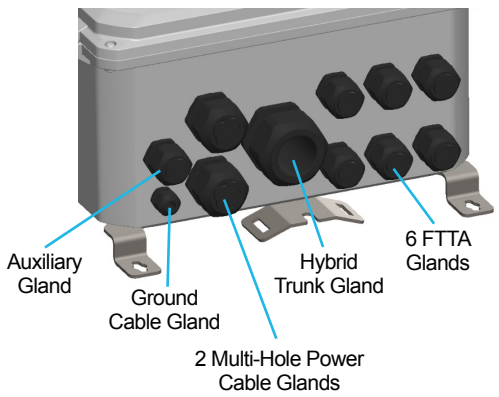



1. Loosely install top and bottom stainless-steel bands through enclosure slots and around metal or wood pole
2. Tighten top band securely
3. Level enclosure horizontally and vertically
4. Tighten bottom band securely

### Cable Gland Identification

| Description | QTY | Cable Diameter Range | | Sealing Nut Torque |
|---|---|---|---|---|
| Hybrid Trunk Gland | 1 | 1.23 – 1.56 in [31.2 – 39.6 mm] | | 188 in-lbs [21.2 Nm] |
| Power Cable Gland | 2 | .38 in [10 mm] approx., 4 holes | | 100-110 in-lbs [11.3-12.4 Nm] |
| FTTA Cable Gland | 6 | .210 - .334 in [5.3 – 8.5 mm] | .420 - .630 in [10.7 – 16 mm] | 80-85 in-lbs [9.0-9.6 Nm] |
| Ground Cable Gland | 1 | .105 - .315 in [2.7 – 8 mm] | | 33-38 in-lbs [3.7-4.3 Nm] |
| Auxiliary Gland | 1 | .420 - .630 in [10.7 – 16 mm] | | 80-85 in-lbs [9.0-9.6 Nm] |

Cable Glands on bottom of Terminal



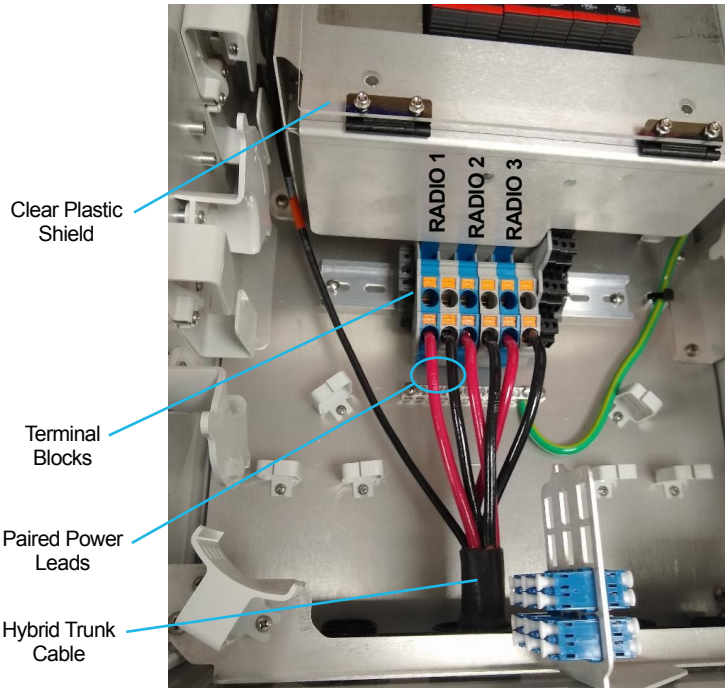
# Hybrid Fiber/Power Terminal with Overvoltage Protection
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### Hybrid Trunk Cable Installation

1. Ensure power to trunk cable is switched off prior to installation
2. Unlatch clear plastic shield and rotate up
3. Feed trunk cable power and fiber through the large cable gland
4. Power leads are paired with a color-coded marker
5. Cut power leads and strip insulation back .5" to .75" [13 to 20mm]
6. Push (+) and (-) paired conductors into adjacent blue and grey terminal blocks, using the lower connection ports as shown
7. Tighten external cable gland nut to 188 in-lbs [21.2 Nm]

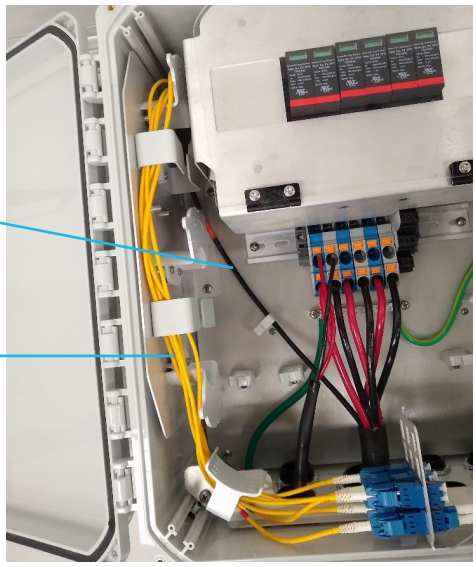



### Hybrid Trunk Cable Routing

1. Route fiber optic cable to the left side of the enclosure
2. Utilize fiber slack storage as required
3. Remove connector dust caps and connect to the left side of the adapters

Fiber Connections (24f configuration shown)






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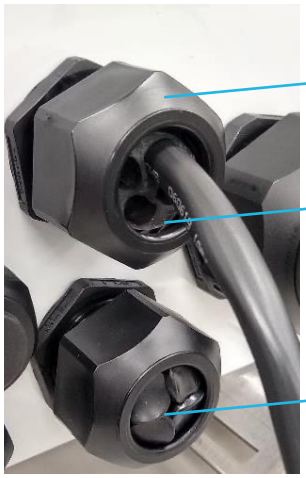
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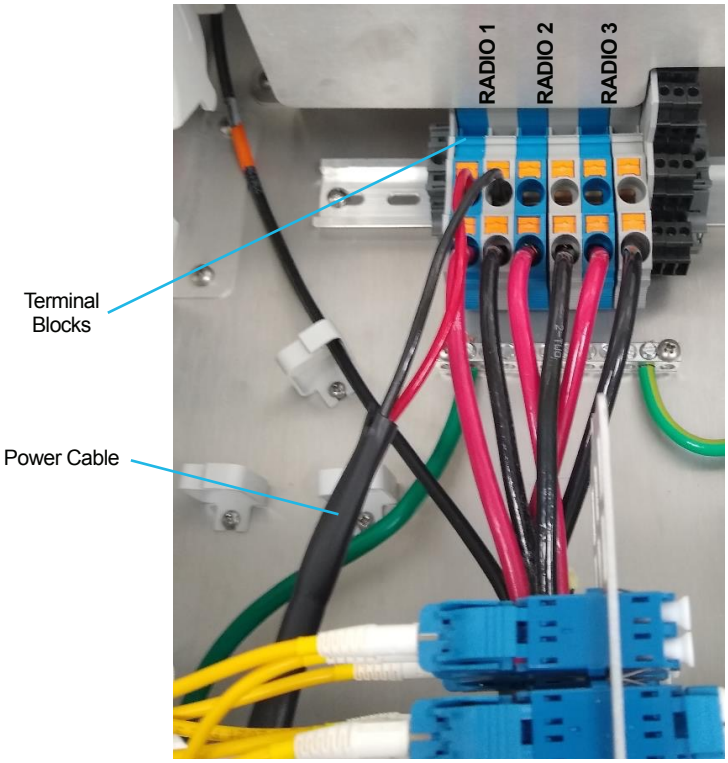
# Hybrid Fiber/Power Terminal with Overvoltage Protection
## Installation Instructions

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### Power Cable Installation

1. Ensure power to trunk cable is switched off prior to installation
2. Loosen external cable gland nut and remove four plugs
3. Pass the power cables through the holes in the rubber gland
4. Cut conductors to length and strip insulation back .5" to .75" [13 to 20mm]
5. Push conductors into adjacent blue and grey terminal blocks, using the upper connection ports as shown
6. After installing all required power cables, place a plug into any empty hole remaining in both cable glands
7. Tighten external cable gland nuts to 100-110 in-lbs [11.3-12.4 Nm]



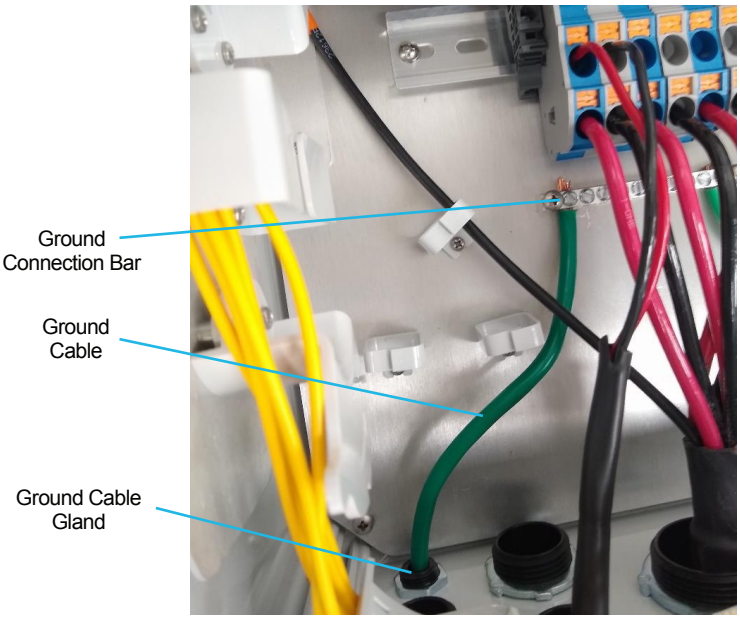




### Ground Cable Installation

1. Route #6AWG ground cable through the cable gland as shown
2. Strip insulation back and connect to one of the screw terminals on the ground connection bar
3. Tighten external cable gland nut to 33-38 in-lbs [3.7-4.3 Nm]




External Ground Cable Routing



# Hybrid Fiber/Power Terminal with Overvoltage Protection
## Installation Instructions

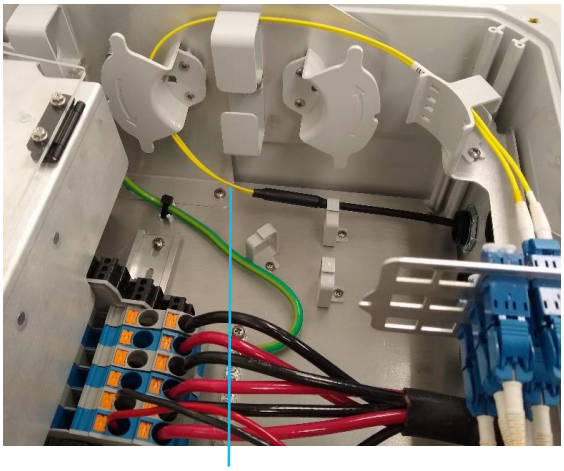
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### FTTA Cable Installation

1. Populate the cable glands closest to the trunk cable first and work outward
2. For each cable gland to be used, remove the external cable gland nut, plug and rubber split gland from inside cable gland body
3. Pass the fiber connectors and cable through the external cable gland nut
4. Open split gland and place onto the cable with the chamfered side facing the external nut
5. Pass the cable through gland body and route to the right side of the enclosure, utilizing fiber slack storage as required
6. Remove connector dust caps and connect to adapter
7. Re-insert the rubber split gland into the cable gland body
8. After installing all FTTA cables, tighten external cable gland nuts to 80-85 in-lbs [9.0-9.6 Nm]




FTTA Cable Connections (one FTTA Cable shown)

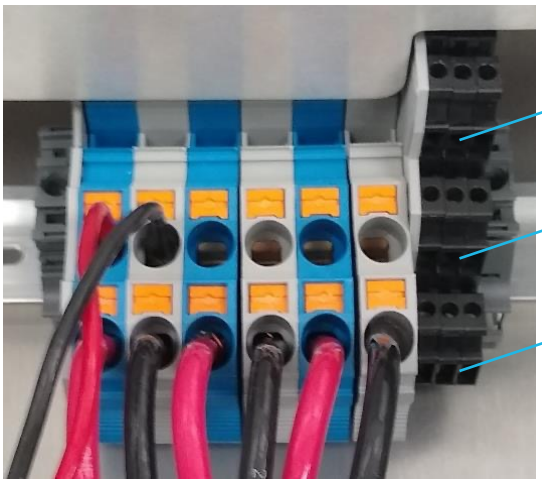



### Remote Alarm Connections

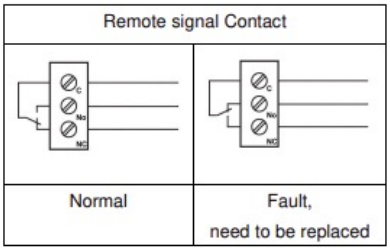
1. If remote alarms are to be used, use black terminal blocks as shown
   - Each SPD has its own discrete alarm circuit and terminal block
2. Remove plug and route the alarm cable through the auxiliary cable gland
3. Cut conductors to length and strip insulation back .35" [9mm]
4. Tighten external cable gland nut to 80-85 in-lbs [9.0-9.6 Nm]




Alarm Terminal Blocks




Remote Alarm Circuit At Surge Protection Device




C (RED) to terminal block bottom tier
No (BLK) to terminal block middle tier
NC (WHT) to terminal block top tier



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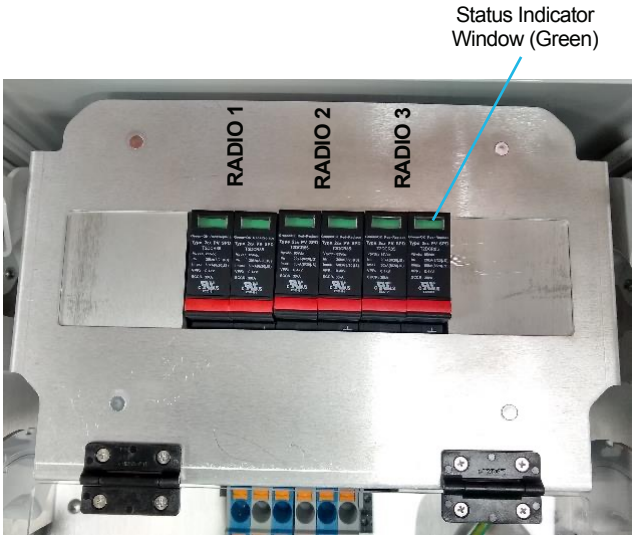
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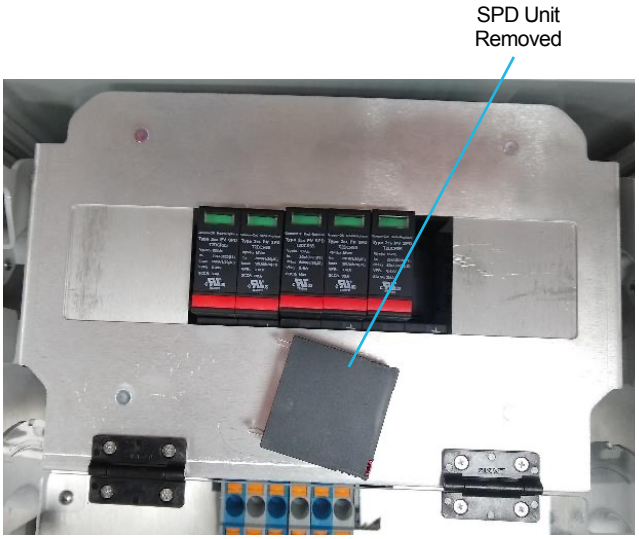
### Installation Final Steps

1. Rotate clear plastic cover down and relatch into fiber adapter bracket
2. Check that all external cable gland nuts have been tightened, use a plug in any glands that have not been used

### Surge Protection Device (SPD) Information

1. Each SPD unit has a status indicator window
    - Green denotes a normally functioning unit
    - Red denotes a non-functioning unit that needs replacement
2. To replace, ensure main power is switched off
3. Pull unit straight out and push in the new unit




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