

# Installation Instructions

## Bulletin 1485 PowerTap™ Connection

**IMPORTANT:** Power: 15.0 Amps maximum total current; 7.5 Amps each trunk at 25°C (1485T-P2T5-T5).  
 Power: 6.0 Amps maximum total current; 3.0 Amps each trunk at 25°C (1485T-P2T5-T5C).



**ATTENTION:** Under some conditions of load current and ambient temperature the fuse current value should be decreased. As shipped, the 1485T-P2T5-T5 PowerTap connection is fused to supply up to 7.5 Amps to one trunk line, the 1485T-P2T5-T5C 3.0 Amps.

### Specifications

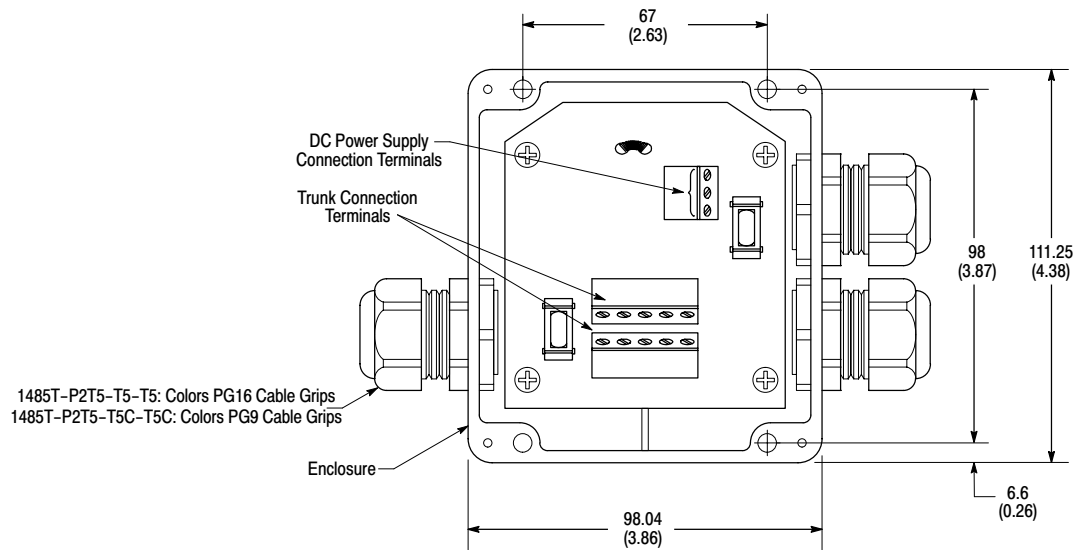
<b>Storage Temperature</b>	-40°C to +85°C (-40°F to 185°F)
<b>Operating Temperature</b>	-25°C to +70°C max
<b>Operating Humidity</b>	5%–95% relative (noncondensing)
<b>Washdown Rating</b>	1200 PSI (8270kPa) @ 60°C (140°F) NEMA 3, 4x, 6P, 12 and 13
<b>Housing Material</b>	Black polyester

**Note:** In class II applications the fuses are used as a means for isolating network segments. For more information refer to DeviceNet Cable Installation Guide.

### Description

For power requirements on your DeviceNet™ network, Allen-Bradley is introducing its PowerTap connection. The PowerTap connection is a passive coupling device used to limit trunk current and is also used to permit the connection of multiple power supplies to the trunk without mutual interference.

**Figure 1: PowerTap Connection**  
**Part Number: 1485T-P2T5-T5 and 1485T-P2T5-T5C**  
**Dimensions—mm (inches)**



**Figure 2: Wiring Diagram**

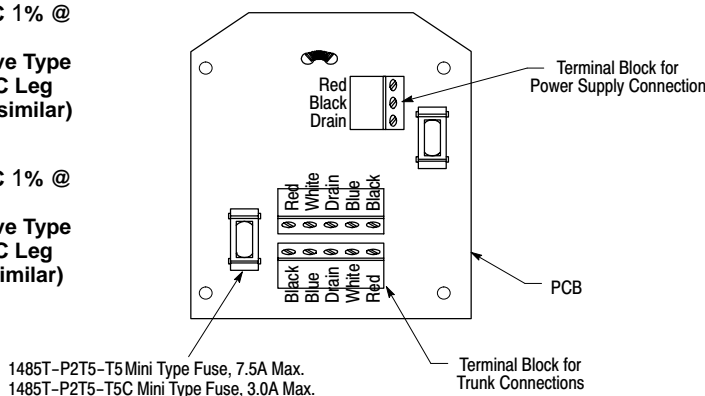
**1485T-P2T5-T5:**

**Power Requirements: 24V DC 1% @ 15.0 Amp (maximum)**  
**7.5 Amp Fast Blow Automotive Type Fuse in each Trunk +24V DC Leg (Littlefuse model 297 07.5 or similar)**

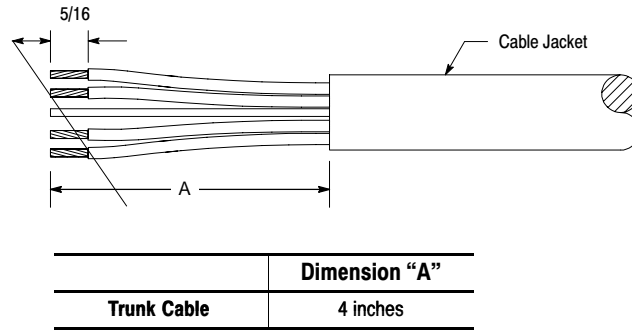
**1485T-P2T5-T5C:**

**Power Requirements: 24V DC 1% @ 6.0 Amp (maximum)**  
**3.0 Amp Fast Blow Automotive Type Fuse in each Trunk +24V DC Leg (Littlefuse model 297 03 or similar)**

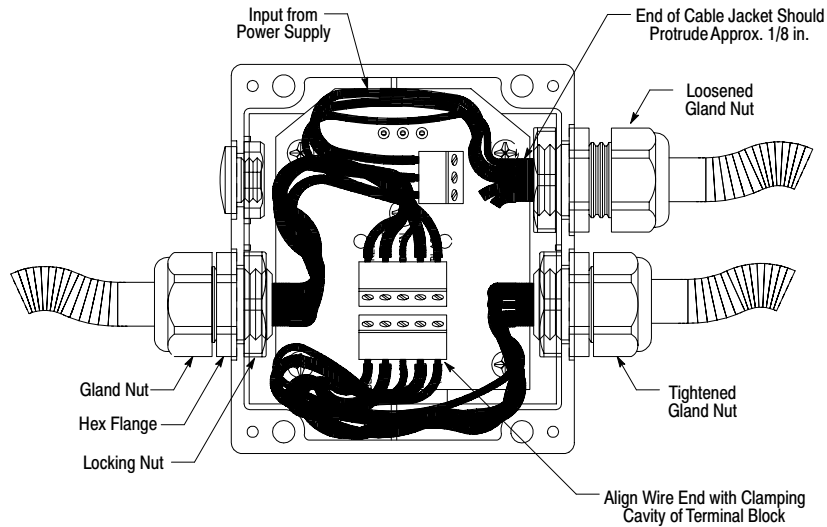
**Note:** Red +24V  
 White CAN Hi  
 Blue CAN Lo  
 Black Common



**Figure 3: Cable Stripping Installation for PowerTap Connection**



**Figure 4:**



1. To install trunk cable into PowerTap connection cut and strip gray PVC cable back approximately 4 inches (see Figure 3) and insert through large cable gland. Note: Trunk cable used for input from power supply should have white and blue leads cut off short.
2. Loosen gland nut and insert cable until approximately 1/8 inch of cable jacket protrudes.
3. Firmly tighten gland nut to provide strain relief and sealing. Caution: The hex flange must be held with the cable gland wrench during tightening.
4. Bare wire ends should be firmly twisted to eliminate loose strands and each lead looped approximately as shown, to allow insertion into the clamping cavity of the terminal block. (See Figure 2 for color codes.)



**ATTENTION:** Be certain to use insulating tubing (included in accessory kit) on bare drain wire.

5. To attach cable to terminal strips, press down on cage clamp, insert wire and release cage clamp. Repeat process for remaining wires.
6. After all cables are terminated, the cover should be installed and securely tightened to ensure washdown rating.

All external wiring must conform to national electric code and local codes.