



CH-200 Powered Fiber Cable Transition Box

Quick Installation Guide

P/N: 5019945201

INTRODUCTION

Model	Description
CH-200	12C Fiber Panel with Power Terminal Block

PACKAGE CONTENTS

* 1x Quick Installation Guide	* 1x Screw Parts Kit
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IMPORTANT INFORMATION

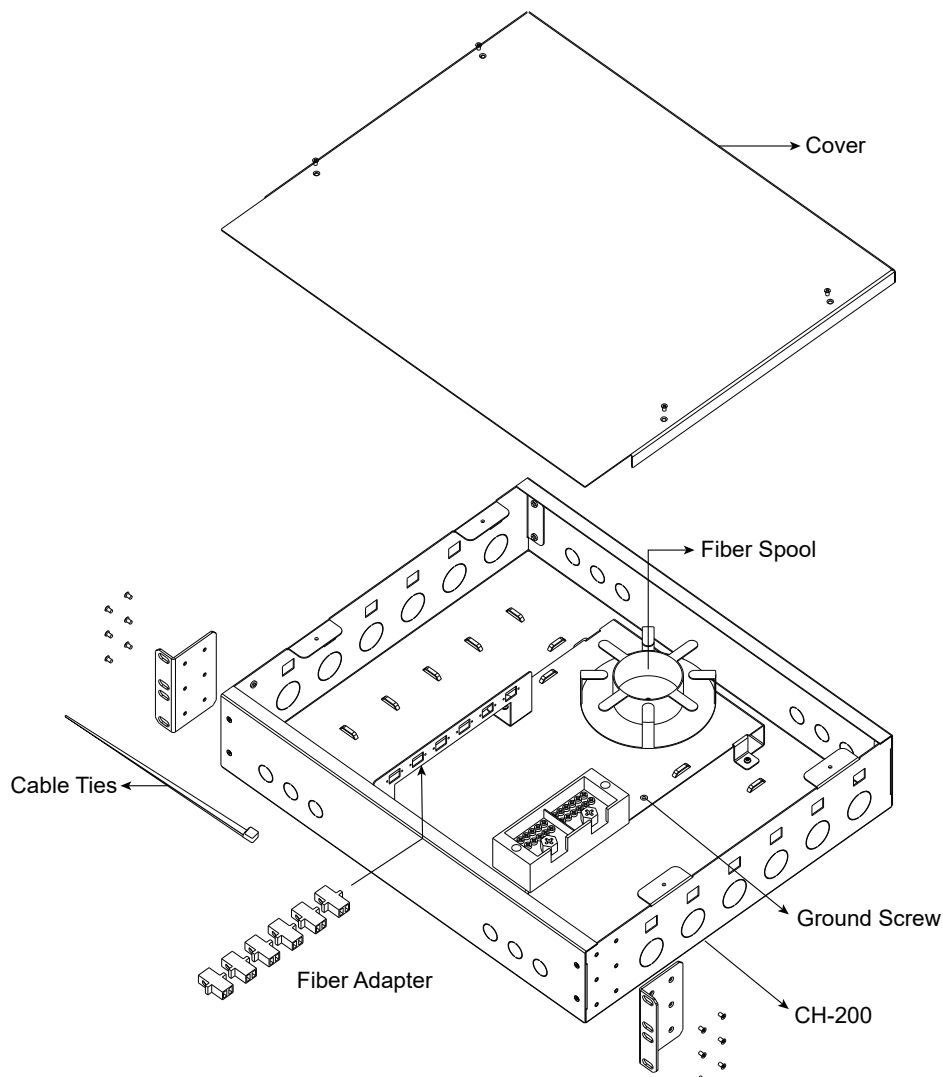
1. Use only high-quality Power and Fiber cables. Low-quality cables will severely limit power delivery and transmission distance.
2. Install a 60V SPD (Surge Protector) to protect the DC power supply for each powered fiber cable.

RACKMOUNT INSTALLATION

1. Product Description

The CH-200 facilitates a neat transition between indoor and outdoor rated Powered Fiber Cables (PFC). It supports up to six (6) PFC channels, providing an organized solution for hybrid connectivity. Each channel consists of two (2) power conductors for DC power delivery (+ and -), and one (1) duplex fiber connection for data transmission (TX/RX). The CH-200 is designed for indoor use and is suitable for installation in plenum spaces. Cables enter the enclosure through a 28.2mm entry hole, and the internal architecture features a built-in fiber spool to safely manage and store excess fiber slack.

2. Components



3. Tools Required

- Round & Electrical Wire Strippers
- Flat Screwdrivers (Large & Small)
- Power Drill/Driver
- Fiber Optic Termination & Cleaning Kits
- 6-Port Fiber Adaptor
- Furcation Tubing (optional)

4. Installation steps

A. Mounting and Grounding

- Attach a 12 AWG (or larger) ground wire to the terminal block using the green ground screw (Figure 1). Connect the other end to Earth ground.
- Secure the ground wire to the cable clamp using a supplied cable tie (Figure 1).

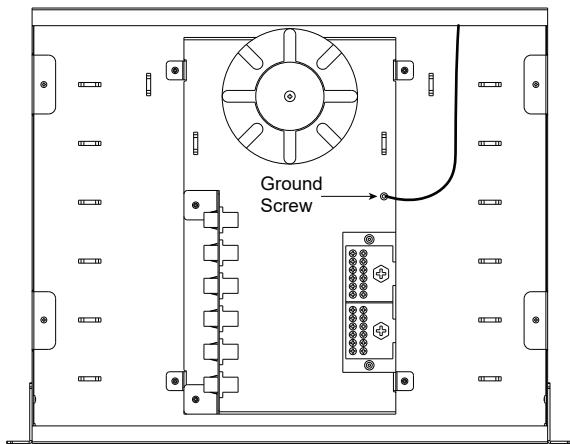


Figure 1

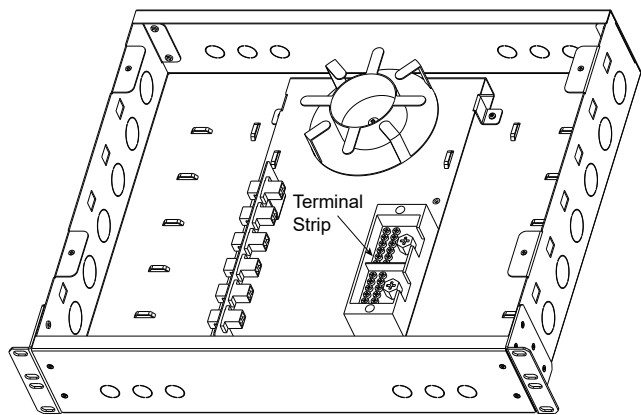


Figure 2

B. Terminate Incoming (Indoor) Powered Fiber Cable

- Strip the PFC outer jacket. Trim strength members but keep power wires and fibers intact.
- Connect PFC power conductors to the 60V DC Surge Protector Device (60V DC SPD) "Line In" terminals.
- Connect a secondary power cable from the 60V DC Surge Protector Device (60V DC SPD) "Line Out" terminals to the CH-200 DC input.
- Route fiber into the CH-200, securing it to the cable clamp. Leave 1–1.5 meters of slack.

Approx. 25mm of Cable Jacket

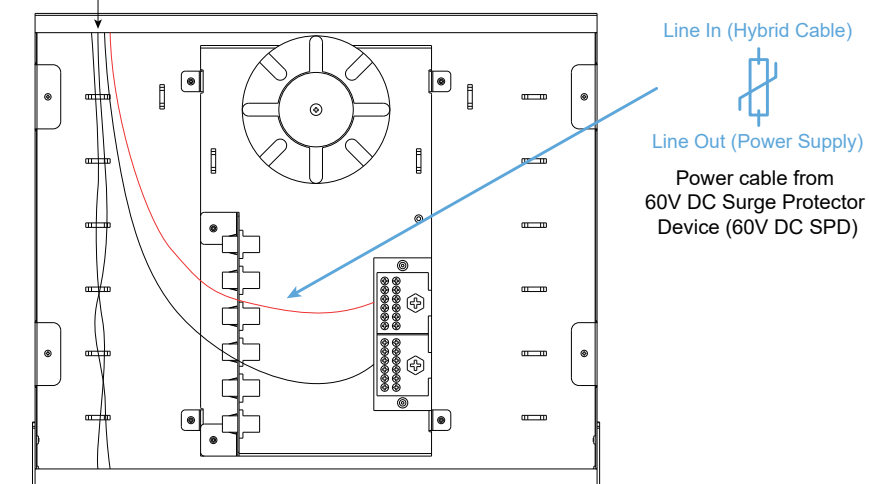


Figure 3

C. Power & Fiber Connection

- a. Strip 5mm of insulation from power conductors.
Reference: 12 AWG (2.0mm); 14 AWG –1.6mm; 16 AWG – 1.3mm; 18 AWG -1.0 mm; 20 AWG– 0.8mm;
22 AWG – 0.65mm; 24 AWG – 0.5mm; 24 AWG (0.5mm)
- b. Match wire polarity with the terminal strip. (Figure 4)
- c. Open screw terminals with a small flat screwdriver, insert wires, and tighten. Ensure no bare wire is exposed.
- d. Terminate LC plugs, clean them, and insert into the adapter.
(Refer to TECP-96-194 Cleaning Fiber Connectors and Adapters)
- e. Loop excess fiber around the built-in spool. (Figure 5)
- f. Repeat the above steps for all incoming cables.

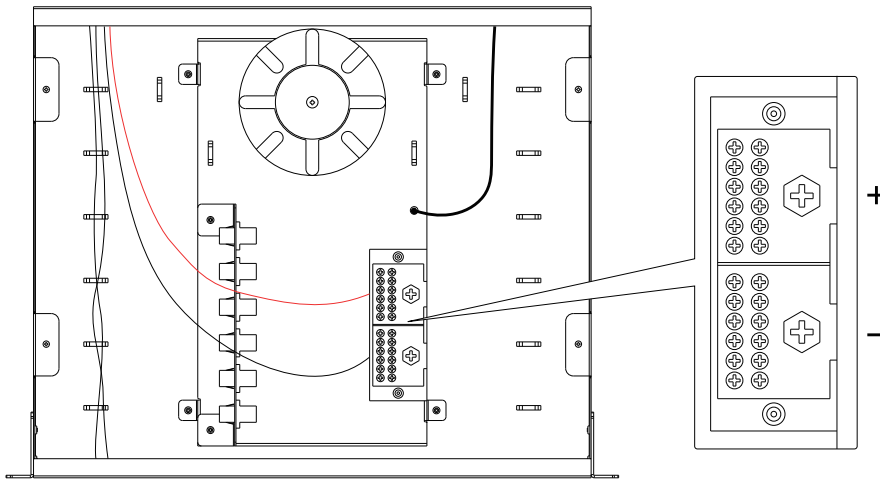


Figure 4

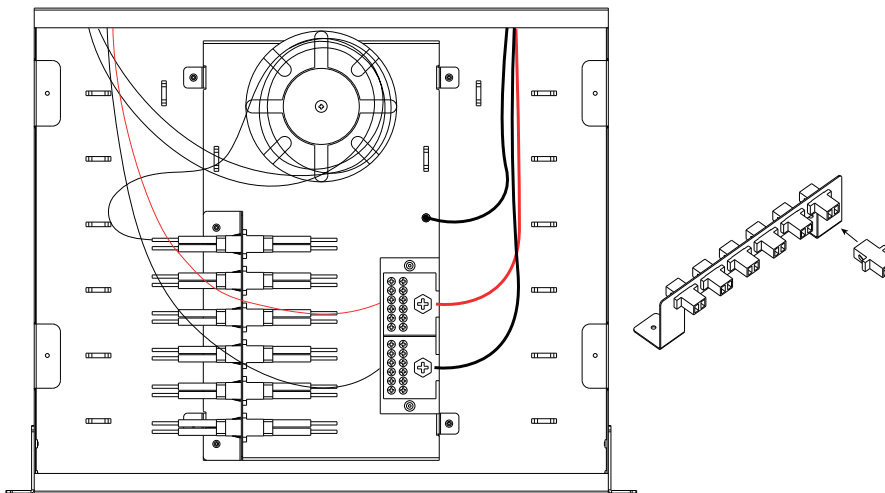


Figure 5

D. Terminate Outgoing (Outdoor) Powered Fiber Cable

- a. Secure the outgoing PFC to the cable clamp with a cable tie. (Figure 6)
Leave 1–1.5 meters of fiber slack.
- b. Follow the same stripping and terminal block steps used for incoming cables.
Tip: Use the polarization indentation on the cable jacket to identify polarity.
- c. Terminate LC plugs (use furcation tubing if necessary for protection). Clean and install into the adapter.
(Refer to TECP-96-194 Cleaning Fiber Connectors and Adapters)
- d. Loop excess fiber around the built-in spool. (Figure 6)

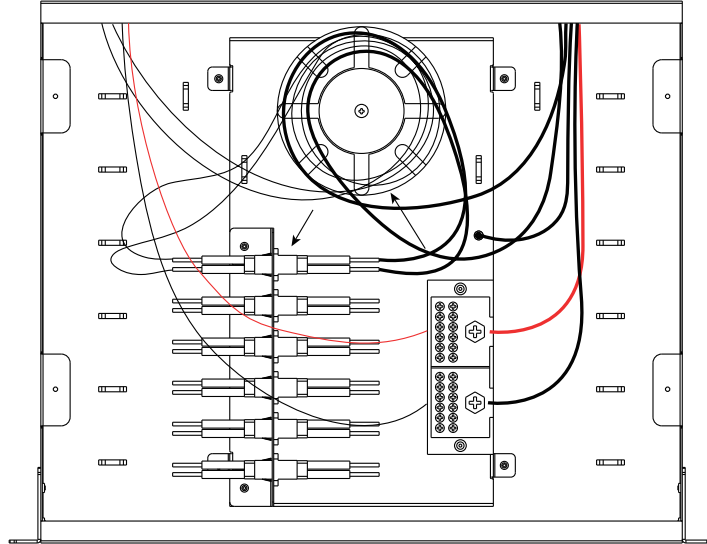


Figure 6

E. Final Assembly

- a. Place the top cover onto the CH-200 and tighten the screws. (Figure 7)
- b. Install the unit into a standard 19" rack using the provided mounting hardware. (Figure 8)



Figure 7

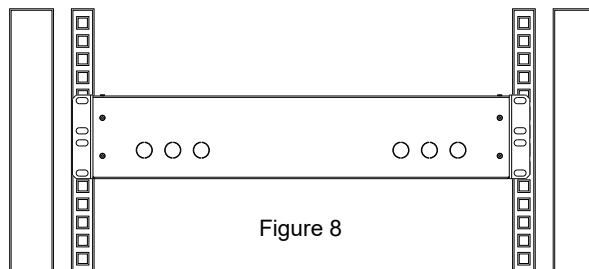


Figure 8

All specifications are subject to change without notice.
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