



## CPIPCL2

### CPI Non-Armored Communications and Power Cable with UTSX Eight-Pin Socket Connector



## Overview

The CPIPCBL2 carries both CPI communications and power between a CPI-enabled sensor and a Campbell Scientific data logger or HUB-CPI module. Campbell Scientific's CPI bus enables high-speed communications over long cable runs while maintaining precise time synchronization across all connected sensors, which is critical for eddy-covariance applications where measurement timing is essential. The sensor end terminates in an eight-pin UTSX socket connector. The opposite end offers three configurations to suit different installation requirements:

› **-RC (RJ45):** An RJ45 connector for the CPI data signals, paired with a separate two-conductor 14 AWG pigtail for power; connects directly to a data logger's CPI port or HUB-CPI module

- › **-CU (UTSX Plug):** An eight-pin UTSX plug connector for daisy-chaining a CSAT3C 3-D Sonic Anemometer on a TGA300 Trace Gas Analyzer or connecting to enclosures with a CPI breakout board
- › **-PF (Pigtail with Ferrules):** Individual wires with ferruled terminations for RS-485 signals and 14 AWG power leads suited for RS-485 connections to third-party data acquisition systems

The CPIPCBL2 is available in standard lengths of 5 m (17 ft), 20 m (66 ft), and 50 m (164 ft). For custom-length availability, contact Campbell Scientific.

## Benefits and Features

- › IP68-rated UTSX socket connector providing dustproof and waterproof protection in both mated and unmated states
- › Single cable architecture combining communications and power to simplify connection and minimize installation errors
- › UTSX eight-pin socket connector with direct mating to all CPI-enabled sensors
- › Supports high-speed, long-distance CPI communications with precise sensor/data logger synchronization
- › 14 AWG power conductors for efficient power delivery over longer cable runs

## Detailed Description

For tables listing the cable wire colors and wiring information

for the three termination options, see the images on the

## Specifications

Cabling	Two-conductor 14 AWG, two-pair 24 AWG, and one-conductor 24 AWG cabled together with fillers for roundness	Ground Conductor	14 AWG tinned copper (one-conductor), polypropylene insulation, green
Jacket Material	0.762 cm (0.3 in.) wall black polyurethane 82 Shore A jacket	Drain Wire	24 AWG tinned copper
Temperature Range	-40° to +85°C	Shield	Aluminum Mylar wrap – foil in
Sensor Connector	UTSX eight-pin socket	Isolation	Non-woven polyester tape wrap
Power Conductors	14 AWG tinned copper (two-conductor), polypropylene insulation, red, black	Termination Options	<ul style="list-style-type: none"><li>» -PF: ferrules on RS-485 and power wires</li><li>» -CU: UTSX eight-pin plug</li><li>» -RC: RJ45 with 14 AWG power pigtail</li></ul>
Data Conductors	24 AWG tinned copper (two-twisted pair), polypropylene insulation, brown paired with brown/white stripe, blue paired with blue/white stripe	Protocol Support	<ul style="list-style-type: none"><li>» Campbell Scientific CPI bus (CPI)</li><li>» RS-485 (via -PF option)</li></ul>
		Certifications	RoHS-compliant material
		Cable Nominal Outer Diameter	8.0772 mm ± 0.254 mm (0.3180 in. ± 0.010 in.)
		Standard Lengths	5 m (17 ft), 20 m (66 ft), 50 m (164 ft)

For comprehensive details, visit: [www.campbellsci.com/cpipcb12](http://www.campbellsci.com/cpipcb12) 