



## Überblick

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.

## Funktionen und Vorteile

▶ 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

## Technische Beschreibung

For tables listing the cable wire colors and wiring information for the three termination options, see the images on the

product web page.

## Spezifikationen

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)

Weitere Details finden Sie unter: [www.campbellsci.de/cpipcb12](http://www.campbellsci.de/cpipcb12) 