# CPIPCBL2

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


## Resumen

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.

## Ventajas y características

- 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

## Descripción detallada

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

## Especificaciones

| | |
|---|---|
| Cabling | Two-conductor 14 AWG, two-pair 24 AWG, and one-conductor 24 AWG cabled together with fillers for roundness |
| Jacket Material | 0.762 cm ( 0.3 in.) wall black polyurethane 82 Shore A jacket |
| Temperature Range | -40° to +85°C |
| Sensor Connector | UTSX eight-pin socket |
| Power Conductors | 14 AWG tinned copper (two-conductor), polypropylene insulation, red, black |
| Data Conductors | 24 AWG tinned copper (two-twisted pair), polypropylene insulation, brown paired with brown/white stripe, blue paired with blue/white stripe |
| Ground Conductor | 14 AWG tinned copper (one-conductor), polypropylene insulation, green |
| Drain Wire | 24 AWG tinned copper |
| Shield | Aluminum Mylar wrap – foil in |
| Isolation | Non-woven polyester tape wrap |
| Termination Options | ❱ -PF: ferrules on RS-485 and power wires<br>❱ -CU: UTSX eight-pin plug<br>❱ -RC: RJ45 with 14 AWG power pigtail |
| Protocol Support | ❱ Campbell Scientific CPI bus (CPI)<br>❱ RS-485 (via -PF option) |
| 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) |

Para más detalles visite: www.campbellsci.es/cpipcbl2

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