

EcoSystem Cable

Custom designed cable, for use with EcoSystem components, improves system performance and decreases installation time. Cable is available for sensor connections and EcoSystem bus connections. Both types are available in plenum versions.

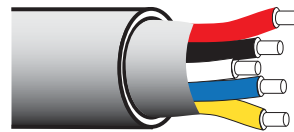
Features

- Internal conductors match EcoSystem device terminal and lead color scheme.
- Each conductor sized for direct connection to EcoSystem ballast and module terminals.
- Three types of EcoSystem bus cable:
 - Non-plenum bus cable (CL3R), for Class 2 applications
 - Non-plenum bus cable (TC), for Class 1 applications
 - Plenum bus cable (CL3P) for plenum Class 2 applications
- Two types of EcoSystem Class 2 sensor cable:
 - Non-plenum sensor cable (CL3)
 - Plenum sensor cable (CL3P)
- All plenum cable is rated to a maximum of 300 V.
- Non-plenum cable is rated to a maximum of 300 V or 600 V dependant upon application.
- Each offering is spooled to 1000 ft (305 m) and based upon industry standards of $\pm 10\%$ on all shipments.



EcoSystem Bus Cable

C-CBL-216-GR-1 (non-plenum, Class 2)
 C-CBL-216-WH-C1 (non-plenum, Class 1)
 C-PCBL-216-CL-1 (plenum, Class 2)



EcoSystem Class 2 Sensor Cable

C-CBL-522S-WH-1 (non plenum)
 C-PCBL-522S-CL-1 (plenum)

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Job Name:	Model Numbers:
Job Number:	

EcoSystem Bus Cable Specifications

C-PCBL-216-CL-1

General Description

Two conductor EcoSystem bus cable for plenum spaces
 16 AWG (1.5 mm²) solid bare copper, FEP insulated conductors
 2 single conductors cabled
 Clear 0.017 in (0.43 mm) thick FEP jacket — sheathed
 All external markings use white ink

Electrical

Maximum operating voltage	300 V RMS	CL3P
Maximum continuous current per conductor	10 A	at 77 °F (25 °C)
Nominal conductor DC resistance	4 Ω/1000 ft (304.8 m)	at 68 °F (20 °C)

Physical

Temperature Rating	-94 °F to 392 °F (-70 °C to 200 °C)
Nominal Diameter	0.173 in (4.39 mm)
Maximum Pull Tension	45 lb (20.41 kg)
Minimum Bend Radius	1.75 in (44.5 mm)
Insulation Material	FEP
Jacket Material	FEP

Listings

UL listed as Type CL3P or CMP c(UL)us, FT-6
 NFPA 262
 UL444 and UL13
 CSA-C22.2 No. 214
 RoHS Compliant

Colors

Jacket — Clear (CL)

<u>Conductor Color</u>	<u>Ballast Terminal</u>
Purple (PL)	E1
Purple + white stripe (PL/WH)	E2

Jacket Markings

LUTRON C-PCBL-216-CL-1 2/16 AWG (UL File #) (UL) CL3P or
 CMP c(UL)us 200 °C FT-6 RoHS COMPLIANT

Job Name:	Model Numbers:
Job Number:	

EcoSystem Bus Cable Specifications (continued)

C-CBL-216-GR-1

General Description

For running EcoSystem link with other Class 2 wires in non-plenum applications

16 AWG (1.5 mm²) solid bare copper, PVC insulated conductors

2 single conductors cabled

Gray 0.03 in (0.76 mm) thick PVC jacket — sheathed, UV stabilized

All external markings use black ink

Electrical

Maximum operating voltage	300 V RMS	CL3R/CMG
	600 V RMS	AWM Style 20811
Maximum continuous current per conductor	13 A	at 77 °F (25 °C)
Nominal conductor DC resistance	4 Ω/1000 ft (304.8 m)	at 68 °F (20 °C)

Physical

Temperature Rating	-4 °F to 221 °F (-20 °C to 105 °C)
Nominal Diameter	0.300 in (7.62 mm)
Maximum Pull Tension	62.5 lb (28.35 kg)
Minimum Bend Radius	1.75 in (44.5 mm)
Insulation Material	PVC
Jacket Material	PVC

Listings

UL Type CL3R

CMG (C)UL

FT-4 Flame Rating

AWM Style 20811

UL 1666 Vertical Shaft

RoHS Compliant

Colors

Jacket — Gray (GR)

Conductor Color

Purple (PL)

Purple + white stripe (PL/WH)

Ballast Terminal

E1

E2

Jacket Markings

C-CBL-216-GR-1 LUTRON 2/16 AWG CL3R 90 °C (UL) E171202

or CMG c(UL)

or AWM STYLE 20811 105 °C 600 V DATE CODE FT-4 RoHS COMPLIANT

Job Name:	Model Numbers:
Job Number:	

EcoSystem Bus Cable Specifications (continued)

C-CBL-216-WH-C1

General Description

For running EcoSystem link with other line-voltage wires (Class 1) in non-plenum applications

16 AWG (1.5 mm²) solid bare copper, PVC/Nylon insulated conductors

2 single conductors cabled

White 0.045 in (1.1 mm) thick PVC jacket — sheathed, UV stabilized

All external markings use black ink

Electrical

Maximum operating voltage	600 V RMS	TC
	600 V RMS	UL STANDARD 62, TYPE TFN
Maximum continuous current per conductor	20 A	at 77 °F (25 °C)
Nominal conductor DC resistance	4 Ω/1000 ft (304.8 m)	at 68 °F (20 °C)

Physical

Temperature Rating	-4 °F to 194 °F (-20 °C to 90 °C)
Nominal Diameter	0.299 in (7.59 mm)
Maximum Pull Tension	41 lb (18.6 kg)
Minimum Bend Radius	1.75 in (44.5 mm)
Insulation Material	PVC and Nylon
Jacket Material	PVC

Listings

UL Type TC Per UL Standard 1277 for tray cables

CSA Listed CIC C22.2 No. 239-09

UL Approved for Sunlight Resistance

Individual Conductors are rated TFN

Cable meets IEEE 383 & UL 1581 70,000 BTU/h Flame Test Requirements

Cable meets ICEA S-95-658, where applicable

FT-4 Flame Rating

RoHS Compliant

Colors

Jacket — White (WH)

<u>Conductor Color</u>	<u>Ballast Terminal</u>
Purple (PL)	E1
Purple + white stripe (PL/WH)	E2

Jacket Markings

C-CBL-216-WH-C1 LUTRON (UL File #) 2/16 AWG 2C TFN (UL) TYPE C 600 V 90 °C DRY PVC JACKET SUN RES or CSA LL226471 CIC (TC) FT-4 RoHS COMPLIANT

Job Name:	Model Numbers:
Job Number:	

EcoSystem Class 2 Sensor Cable Specifications

C-PCBL-522S-CL-1

General Description

5 conductor EcoSystem sensor cable for plenum spaces
 22 AWG (0.34 mm²) solid bare copper, FEP insulated conductors
 Overall aluminum-polymer foil shield, plus 24 AWG (0.25 mm²) copper drain wire
 Clear 0.012 in (0.3 mm) thick FEP jacket — sheathed
 All external markings use white ink

Electrical

Maximum operating voltage	300V RMS	CL3P
Maximum continuous current per conductor	4 A	at 77 °F (25 °C)
Nominal conductor DC resistance	16.5 Ω/1000 ft (304.8 m)	at 68 °F (20 °C)

Physical

Temperature Rating	-94 °F to 392 °F (-70 °C to 200 °C)
Nominal Diameter	0.140 in (3.56 mm)
Maximum Pull Tension	36.0 lb (16.33 kg)
Minimum Bend Radius	1.50 in (38.1 mm)
Insulation Material	FEP
Jacket Material	FEP

Listings

UL listed as Type CL3P or CMP c(UL)us, FT-6
 NFPA 262
 UL444 and UL13
 CSA-C22.2 No. 214
 RoHS Compliant

Colors

Jacket — Clear (CL)

Conductor Color

Red	+20 V==
Black	Common
White	IR
Blue	Occupancy
Yellow	Daylight

Ballast Terminal

Jacket Markings

LUTRON C-PCBL-522S-CL-1 (UL File #) 22 AWG 5C SHIELDED (UL) CL3P or
 CMP c(UL)us FT-6 200 °C RoHS COMPLIANT

Job Name:	Model Numbers:
Job Number:	

EcoSystem Class 2 Sensor Cable Specifications (continued)

C-CBL-522S-WH-1

General Description

5 conductor EcoSystem sensor cable for non-plenum applications
 22 AWG (0.34 mm²) solid bare copper, PVC insulated conductors
 Overall aluminum-polymer foil shield, plus 24 AWG (0.25 mm²) copper drain wire
 White 0.047 in (1.2 mm) thick PVC jacket — sheathed, UV Stabilized
 All external markings use indented print

Electrical

Maximum operating voltage	300 V RMS	CL3
	600 V RMS	AWM 20811
Maximum continuous current per conductor	4 A	at 77 °F (25 °C)
Nominal conductor DC resistance	16.5 Ω/1000 ft (304.8 m)	at 68 °F (20 °C)

Physical

Temperature Rating	-4 °F to 221 °F (-20 °C to 105 °C)
Nominal Diameter	0.297 in (7.54 mm)
Maximum Pull Tension	36.0 lb (16.33 kg)
Minimum Bend Radius	3 in (76.2 mm)
Insulation Material	PVC
Jacket Material	PVC

Listings

UL Type CL3 and CM
 UL recognized AWM Style 20811
 UL444, UL13 and UL758
 CSA-C22.2 No. 214
 CPR Classification: E_{CA}
 ROHS Compliant

Colors

Jacket - White (WH)

Conductor Color

Red
 Black
 White
 Blue
 Yellow

Ballast Terminal

+20 V₌₌₌
 Common
 IR
 Occupancy
 Daylight

Jacket Markings

LUTRON C-CBL-522S-WH-1 PELV/SELV (UL File #) 22 AWG 5C SHIELDED (UL) CL3 or
 CM c(UL)us 75 °C OR  AWM 20811 105 °C 600V RoHS COMPLIANT

Job Name:	Model Numbers:
Job Number:	