

GreenBus Communication

GreenBus Cable and GreenBus Connectors

Date: _____

Quantity: _____

Company: _____

Project: _____



GreenBus™ by Encelium is a communication architecture technology designed specifically for controlling thousands of luminaires in a building that also integrates peripheral devices such as occupancy sensors, photosensors, relay-based controls, switch packs, and low-voltage wall keypads and touch panels into a complete, programmable lighting control system.

GreenBus is a Class 2 network, which provides low voltage power to all devices on the network eliminating the need for external power supplies and power packs for devices such as occupancy sensors and keypads

GreenBus allows flexible daisy chain wiring topologies and the ability to add luminaires or control devices in-circuit at any time. Different devices may be connected randomly on the network and special termination of each network channel is not required. Automatic addressing of individual nodes during system commissioning simplifies installation by eliminating the need to pre-address devices or record serial numbers during the process.

Works with

- Encelium X
 - ▶ GreenBus Wired



Key Features & Benefits

- Cost-effective wired solutions for seamless lighting controls
- Integrates a range of devices (load controllers, occupancy sensors, and wallstations) into a complete solution
- Flexible and scalable extending the life of your lighting control system
- Enables a hybrid wired and wireless installation into a single site.
- Allows electrical contractors to quickly verify wiring installations and obtain occupancy permits

Specifications

SENSING AND CONTROL

Control Option

- GreenBus Communication

Control Options

- Class 2, pre-terminated cable with connectors
- Up to 100 nodes per channel

Topology

- Independent connection

PHYSICAL

Cable Lengths

- 6.1 m (20 ft)
- 305 m (1,000 ft) bulk

WARRANTY

- Standard warranty is in effect for a period of five (5) years from the date of shipment.¹

CERTIFICATIONS & SAFETY

Cable Approbations

- UL—FT6
- CSA—CMP

Environmental Suitability

- Flame rated jacket for plenum use NFPA 262



GreenBus™

GreenBus Cable

The GreenBus communication network is created using two pre-terminated 18 AWG conductors. GreenBus is a Class 2, polarity independent communication bus that connects to the Encelium X Lighting Control System. The maximum connected length of wiring is up to 762 m (2,500 ft) per channel.



Ordering Information

Catalog Number	Description	Approbation	Communication Network
EN-PTC-20FT-GB2	6.1 m (20 ft) Pre-Terminated Cable	UL	GreenBus
EN-BC-1000FT-GB2	305 m (1,000 ft) Bulk Cable	UL	GreenBus
EN-CON-50-GB2	Greenbus Connectors (qty. 50)	UL	GreenBus

PTC = Pre-Terminated Cabling
BC = Bulk Cabling

GreenBus Tester

The GreenBus Tester is an Installation and Testing Tool required for testing the wiring of a new GreenBus installation.

Ordering Information

Catalog Number	Approbation	Communication Network
EN-ITT-GB2	UL	GreenBus

Footnotes:

¹ This does not apply to: (1) damage caused by accident, mishandling, or dropping; (2) materials which have been subject to unauthorized repair; (3) materials not used in accordance with instructions; (4) ordinary wear and tear.



Wired System Overview

GreenBus technology makes wiring fast and error-free, since it's intuitive to install. With Encelium X, you can control DALI devices exclusively or a mixture of GreenBus and DALI. With any Encelium wired design, you get a reliable, on-site lighting control system that can be installed quickly and easily.

