



Litescape Interconnect Cabling Specification

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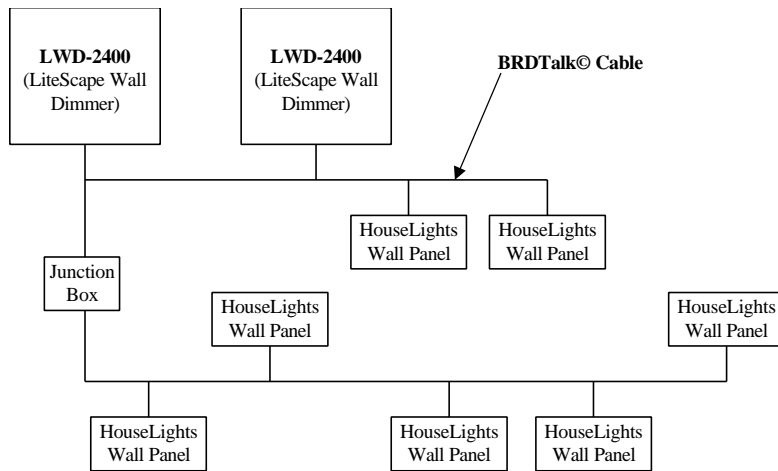
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Purpose

The purpose of this document is specify the selection of cable and the wiring of Litescape devices. It describes selection of the physical cable, routing and distance constraints, and shows a suggested wiring scheme using a typical, commercially available cable.

Introduction

BRDTalk© is an open, proprietary communication pathway between Leprecon© devices,



including LiteScape© Wall Dimmers, House Lights Wall Panels. Devices are connected in whatever order is most convenient. Although a point-to-point connection scheme is preferable, the “star” or “stub” configuration shown in the figure below is acceptable. Cable connections are normally made at the terminal blocks inside the various devices, but junction box connections are acceptable, since current and voltage levels are very small.

During operation, a single “master” LWD-2400 will poll BRDTalk© addresses and manage all system functions. Each device will respond to polls and manage it’s own local tasks, such as servicing button presses and lighting leds, etc.

Electrical Specificaitons

Cable type: Commercial CAT5
Leprecon PN 19-8005
Belden PN 1592A

Number of conductors: 8

Wire Gauge: 24 gauge stranded

Allowable Lengths: doubled-up twisted pairs, about 2000 feet.

Stub Length: Should not exceed 250 feet.

Pinnout:	1	-	V +	Blue / Green / Brown
	2	-	Com -	Orange & White
	3	-	Com +	Orange
	4	-	Gnd	Green & White / Brown & White / Blue & White

System Design Limits:

Total panels per system – communications limit: 12 panels

AND

Total panels per system - current limit: 1.0 Amp DC.

Systems that exceed this current draw must have a supplemental power supply.
Contact Leprecon for details as to how this can be accomplished.

For calculation of total panel current, use the following table:

Part Number	Description	Current Draw
90-03-6003	LHS 1P	0.10
90-03-6004	LHS 3P	0.10
90-03-6006	LHS 6P	0.12
90-03-6008	LHS 12P	0.16
90-03-6010	LHS 3P/3F w/Master	0.15
90-03-6012	LHS 6P/6F w/Master	0.18
	Lockout added to panel	0.00
90-03-6014	LHS 1F	0.05
90-03-6015	LHS 3F w/Master	0.05
90-03-6016	LHS 6F w/Master	0.06
90-03-6017	LHS 12F w/Master	0.08
90-03-6021	LHS Lockout	0.05