

Power Supply Wiring and Power Draw Unit Guidelines

Use the tables below to determine the number of shades and/or controls that can be powered from each output of a QS Smart Panel, or from the single output of a QS Link Individual Power Supply, depending on the size of the shade(s). Then verify the maximum cable length for the output configuration based on the wire gauge that will be used for the 2 power conductors.

QS Smart Panels (QSPS-Px-10-60, QSPSY-Px-10-60, QSPS-10PNL, QSPSY-10PNL, QSPS-xxPNL-NPM†)					
Maximum devices powered per output			Maximum total length of wiring based on wire gauge		
Shades	+	Devices	12 AWG (4.0 mm ²)	16 AWG (1.5 mm ²)	18 AWG (1.0 mm ²)
None	+	Up to 8 PDUs*	2000 ft (610 m)	1000 ft (305 m)	600 ft (183 m)
1 Palladiom shade	+	Up to 1 PDU*	N/A**	200 ft (61 m)	125 ft (38 m)
2 Palladiom shades, ≤ 30 sq ft (2.75 sq m) each	+	Up to 1 PDU*	N/A**	75 ft (23 m)	50 ft (15 m)
3 Palladiom shades, ≤ 20 sq ft (1.8 sq m) each	+	Up to 1 PDU*	N/A**	75 ft (23 m)	50 ft (15 m)
1 Sivoia QS shade/drapery drive unit	+	Up to 1 PDU*	500 ft (152 m)**	200 ft (61 m)	125 ft (38 m)
2 Sivoia QS roller 64 ≤ 30 sq ft (2.75 sq m) each	+	Up to 1 PDU*	200 ft (61 m)**	75 ft (23 m)	50 ft (15 m)
3 Sivoia QS roller 64, ≤ 20 sq ft (1.8 sq m) each	+	Up to 1 PDU*	200 ft (61 m)	75 ft (23 m)	50 ft (15 m)
2 Sivoia QS roller 100, ≤ 50 sq ft (4.6 sq m) each	+	Up to 1 PDU*	200 ft (61 m)	75 ft (23 m)	50 ft (15 m)

QS Link Individual Power Supplies (QSPS-Px-1-50, QSPS-Px-1-35V, QSPS-J-1-50, QSPS-J-1-35V)					
Maximum devices powered			Maximum total length of wiring based on wire gauge		
Shades	+	Devices	12 AWG (4.0 mm ²)	16 AWG (1.5 mm ²)	18 AWG (1.0 mm ²)
None	+	Up to 8 PDUs*	2000 ft (610 m)		1500 ft (450 m)
1 Palladiom shade	+	Up to 1 PDU*	N/A**	100 ft (30 m)	50 ft (15 m)
1 Sivoia QS shade/drapery drive unit	+	Up to 1 PDU*	250 ft (75 m)**	100 ft (30 m)	50 ft (15 m)

*PDU = Power Draw Unit. For more information, refer to the QS Link Power Draw Unit Specification Submittal (P/N 369405).

**The connector supplied with Palladiom shades is not sized to accept 12 AWG wire.

†-NPM = No Power Modules. Models require installation of WIN-PS-5CC-R. Refer to [P/N 045550](#) for installation instructions.

Options available from Lutron with power and communication conductors in one cable:		
Gauge (power conductors)	Lutron Model Number	
	Standard	For Plenum Installation
12 AWG (4.0 mm ²)	QSH-CBL-L-500	QSH-CBLP-L-500
16 AWG (1.5 mm ²)	QSH-CBL-M-500	QSH-CBLP-M-500
18 AWG (1.0 mm ²)	GRX-CBL-346S-500	NA

