

Tetra[®] PowerStrip

LED Lighting System

Replaces fluorescent tubes in single
and double-sided box signs



imagination at work

Tetra® PowerStrip

Energy efficient replacement for fluorescent tubes

Tetra PowerStrip and **Tetra PowerStrip DS** from GE Lumination are the innovative LED systems that replace fluorescent tubes in box signs resulting in reduced energy costs, improved uniformity and lower maintenance expenses.

Tetra PowerStrip is our 12 Volt LED system for single-sided box signs, and **Tetra PowerStrip DS** is our 24 Volt LED system for double-sided box signs.

Box Signs have never been easier to install

Tetra PowerStrip is a low-voltage lighting system that does not require the construction of sockets for mounting. The easy-to-handle system eliminates the handling of fragile glass tubes and can be cut between modules for easy installation in new or retrofit signs of any size.

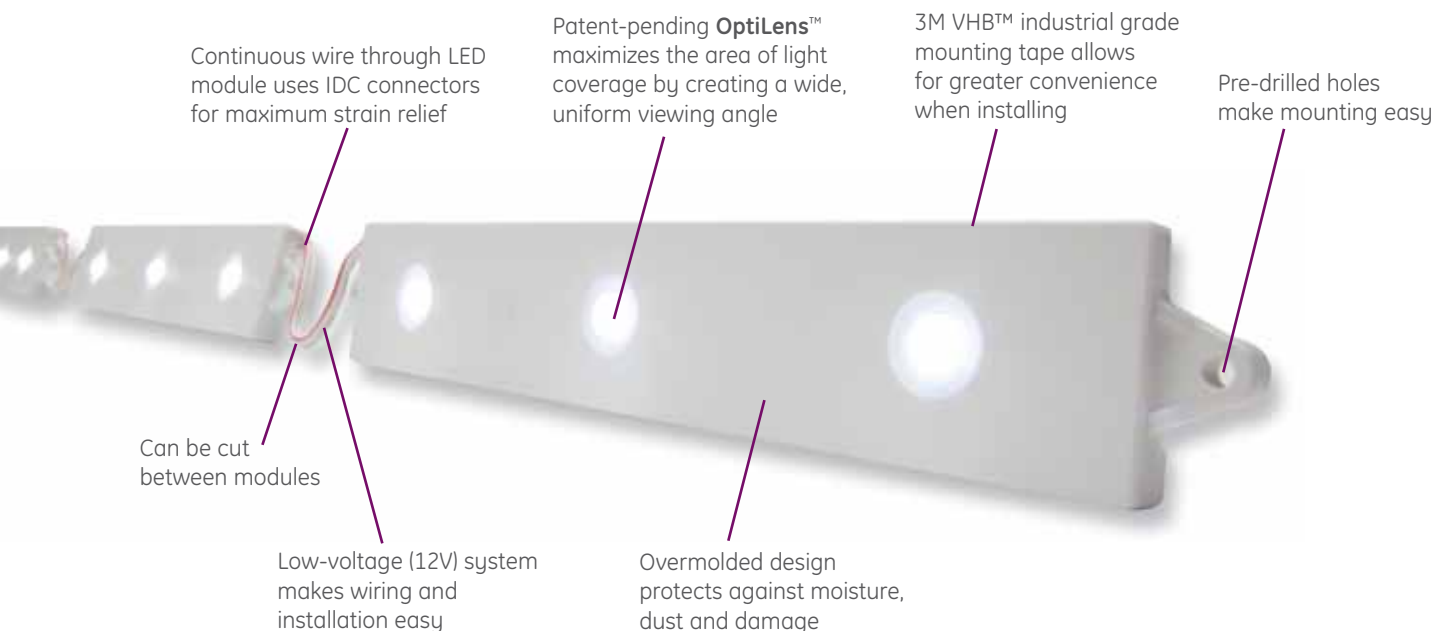
LED Benefits Drive Sales

Tetra PowerStrip has the potential to increase sales by offering valued benefits for end-user driven projects. This LED system is a cost effective investment for sign owners who are conscious about their energy and maintenance costs, brand image and environmental impact.

Tetra PowerStrip drastically slashes energy costs by offering up to 83% energy savings over T12HO fluorescent while providing better light consistency across the sign face. This lighting system delivers uniform light up to 4 times longer than fluorescent. This long life drastically reduces maintenance costs while protecting brand image, and it's all backed up with a 4 year limited warranty. The RoHS compliant system contains no lead, mercury or glass making handling and disposal less of a concern.

Tetra® PowerStrip

- Single-sided LED system
- 12 Volt System
- Pre-drilled holes and industrial grade mounting tape for easy install



GE Reliability

Only GE Lumination has the depth of experience that comes from supplying over 19 million feet of Tetra LED lighting systems across the globe. With a warranty return rate less than 0.05 percent*, every Tetra product is backed with a reputation for reliability that is unsurpassed in the industry. We perform stringent testing of the entire system—utilizing GE Six Sigma standards—rather than just pass on supplier reported performance claims.

*Warranty return rate through August 2009

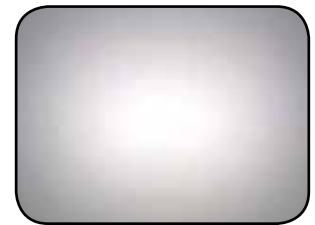
The OptiLens™ Difference

Tetra PowerStrip features **OptiLens™**, an innovative technology that maximizes LED performance. This patent-pending optical lens helps spread light exactly where it's needed most, resulting in bright, uniform light distribution across the entire sign face. Tetra PowerStrip with OptiLens provides over 20% greater surface area coverage than just LEDs alone. The superior brightness and uniformity that this LED system provides enhances and protects brand image through better looking signs.

Tetra PowerStrip
without OptiLens

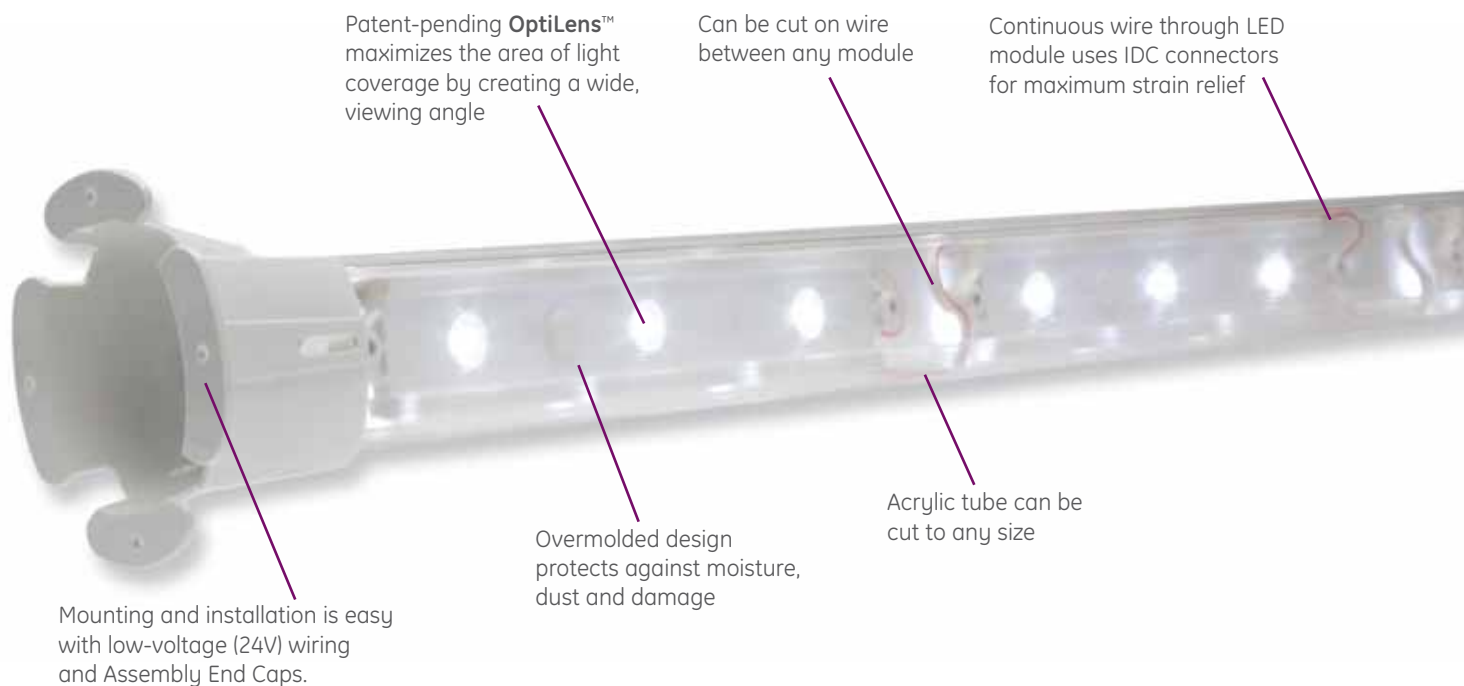


Tetra PowerStrip
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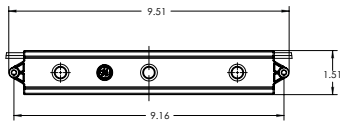


Tetra® PowerStrip DS

- Double-sided LED system
- 24 Volt System
- Acrylic tubes can be cut to length

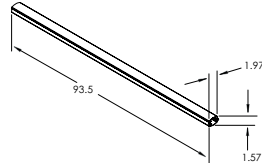


Tetra PowerStrip LED Module

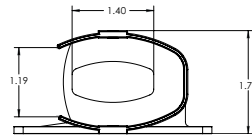


All typical dimensions are in inches

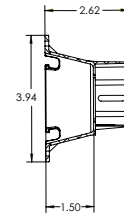
Tetra PowerStrip Tube



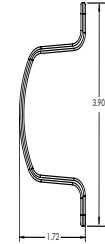
Tube Connector



Assembly End Cap



Assembly Support



Components

SKU	Description	Package Quantity
GEWHSSP3-65K	Tetra PowerStrip 6500K	48 modules
GEWWSPP3-41K	Tetra PowerStrip 4100K	48 modules
GEWHDSP6-65K	Tetra PowerStrip DS 6500K	32 modules
GEWWDSP6-41K	Tetra PowerStrip DS 4100K	32 modules
GEPS12-20	Power Supply (12 VDC/20 W), Input Voltage: 90-264 VAC	10/PK
GEPS12-60	Power Supply (12 VDC /60 W), Input Voltage: 90-264 VAC	10/PK
GEPS12-60U	Power Supply (12 VDC /60 W), Input Voltage: 108-305 VAC	10/PK
GEPS24-20	Power Supply (24 VDC/20 W), Input Voltage: 90-264 VAC	10/PK
GEPS24-80	Power Supply (24 VDC /80 W), Input Voltage: 108-264 VAC	10/PK
GEPS24-100U	Power Supply (24 VDC /100 W), Input Voltage: 108-305 VAC	10/PK
9409	18 AWG Supply Wire (0.82 mm ²)	500 ft./spool (152.4 m)
191600041	22-14 AWG Twist-On Wire Connectors (0.33 – 2.08 mm ²)	500/PK
192160004	18-14 AWG In-line Connectors (IDC) (0.82 – 2.08 mm ²)	500/PK
GETMEC1	18 AWG Wire End Caps (0.82 mm ²)	100/PK
GEDSAT96	Tetra PowerStrip Tube (93.5 in./2375 mm)	8 tubes/PK
GEDSMB1	Tetra PowerStrip Assembly End Cap	20/PK
GEDSTC1	Tetra PowerStrip Tube Connector	20/PK
GEDSAS1	Tetra PowerStrip Assembly Support	8/PK

Technical Specifications

Specification Item	Tetra PowerStrip	Tetra Powerstrip DS																												
Color Temperatures	6500K, 4100K	6500K, 4100K																												
Typical Brightness (lumens/module)	6500K: 249 lm/module 4100K: 201 lm/module	6500K: 498 lm/module 4100K: 402 lm/module																												
Viewing Angle	135° horizontal viewing angle; 140° vertical viewing angle	135° horizontal viewing angle; 140° vertical viewing angle																												
Length of Wire Between Modules	4 in. (102 mm)	8 in. (203 mm)																												
Cutting Resolution	Cut on wire between every module	Cut on wire between every module																												
Power Supplies	GEPS12-20 Input: 90-264 VAC, Output: 12 VDC/20 W GEPS12-60 Input: 90-265 VAC, Output: 12 VDC/60 W GEPS12-60U Input: 108-305 VAC, Output: 12 VDC/60 W	GEPS24-20 Input: 90-264 VAC, Output: 24 VDC/20 W GEPS24-80 Input: 108-264 VAC, Output: 24 VDC/80 W GEPS24-100U Input: 108-305 VAC, Output: 24 VDC/100 W																												
Loading per Power Supply	GEPS12-20: Maximum: 5 modules GEPS12-60: Maximum: 16 modules GEPS12-60U: Maximum: 16 modules	GEPS24-20: Maximum: 3 modules GEPS24-80: Maximum: 12 modules GEPS24-100U: Maximum: 16 modules																												
Maximum Supply Wire Limits	<table border="1"> <thead> <tr> <th>Supply Wire Gauge</th> <th>Maximum Distance</th> </tr> </thead> <tbody> <tr> <td>18 AWG (0.82 mm²) (9409)</td> <td>20 ft. (6.10 m)</td> </tr> <tr> <td>16 AWG (1.31 mm²)</td> <td>25 ft. (7.62 m)</td> </tr> <tr> <td>14 AWG (2.08 mm²)</td> <td>35 ft. (10.67 m)</td> </tr> <tr> <td>12 AWG (3.31 mm²)</td> <td>40 ft. (12.19 m)</td> </tr> <tr> <td>10 AWG (5.27 mm²)</td> <td>75 ft. (22.86 m)</td> </tr> <tr> <td>8 AWG (8.35 mm²)</td> <td>100 ft. (30.48 m)</td> </tr> </tbody> </table> <p><i>Wiring to be installed in accordance with Article 725 of the National Electric code (NEC).</i></p>	Supply Wire Gauge	Maximum Distance	18 AWG (0.82 mm ²) (9409)	20 ft. (6.10 m)	16 AWG (1.31 mm ²)	25 ft. (7.62 m)	14 AWG (2.08 mm ²)	35 ft. (10.67 m)	12 AWG (3.31 mm ²)	40 ft. (12.19 m)	10 AWG (5.27 mm ²)	75 ft. (22.86 m)	8 AWG (8.35 mm ²)	100 ft. (30.48 m)	<table border="1"> <thead> <tr> <th>Supply Wire Gauge</th> <th>Maximum Distance</th> </tr> </thead> <tbody> <tr> <td>18 AWG (0.82 mm²) (9409)</td> <td>20 ft. (6.10 m)</td> </tr> <tr> <td>16 AWG (1.31 mm²)</td> <td>25 ft. (7.62 m)</td> </tr> <tr> <td>14 AWG (2.08 mm²)</td> <td>35 ft. (10.67 m)</td> </tr> <tr> <td>12 AWG (3.31 mm²)</td> <td>40 ft. (12.19 m)</td> </tr> <tr> <td>10 AWG (5.27 mm²)</td> <td>75 ft. (22.86 m)</td> </tr> <tr> <td>8 AWG (8.35 mm²)</td> <td>100 ft. (30.48 m)</td> </tr> </tbody> </table> <p><i>Wiring to be installed in accordance with Article 725 of the National Electric code (NEC).</i></p>	Supply Wire Gauge	Maximum Distance	18 AWG (0.82 mm ²) (9409)	20 ft. (6.10 m)	16 AWG (1.31 mm ²)	25 ft. (7.62 m)	14 AWG (2.08 mm ²)	35 ft. (10.67 m)	12 AWG (3.31 mm ²)	40 ft. (12.19 m)	10 AWG (5.27 mm ²)	75 ft. (22.86 m)	8 AWG (8.35 mm ²)	100 ft. (30.48 m)
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Sign Dimensions	For best results, recommended sign depth is 5 inches (127mm) or greater.	For best results, recommended total sign depth is 10 inches (254mm) or greater.																												
Energy Consumption	Strip: 2.44 W/module, System: 2.92 W/module	Strip: 4.87 W/module, System: 5.73 W/module																												
Operating Environment	-40°C to +60°C	-40°C to +60°C																												
System Certifications	UL Recognized #E219167, UL Classified #E229508, CSA Approved #216319, CE, C-tick, RoHS, IP66 rated: separate enclosure required, damp location rated																													



6180 Halle Drive • Valley View, Ohio 44125-4635 • USA
P: 216.606.6555 • F: 216.606.6599 • www.lumination.com • info@lumination.com

For customer service & technical support, contact:
1-888-MY-GE-LED (1.888.694.3533)

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