PowerPlus™

Connector Strips

Safe,

Convenient

Power and

Data Access for

Theatre and

Studio

Applications

c (UL) US Listed

Including Advanced Options for Distribution of DMX 512 and CAT 5E Ethernet
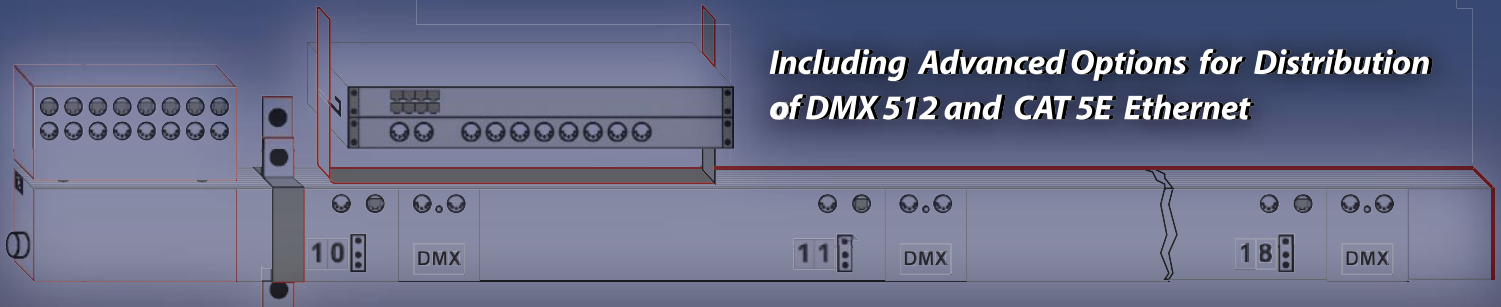
DMX   10   DMX   11   DMX   18

LEX
PRODUCTS CORP.

We Deliver the Power™

PowerPlus™ Connector Strips

Safe, Convenient Power and Data Access for Theatre and Studio Applications

LEX PRODUCTS CORP.
We Deliver the Power™

The PowerPlus™ Connector Strips offer the most advanced options for distribution of DMX512 and Cat5E ethernet to accommodate today's advanced equipment.

- ▲ Rigid interlocking extruded aluminum wireway that won't rust, flex or bow.
- ▲ Lightweight, safe and easy to install.
- ▲ Flush mounting end caps with countersunk screws for neat, professional appearance.
- ▲ Labor saving cage clamp terminal blocks, with no screws to tighten or come loose.
- ▲ Premium quality compression strain reliefs. No plastic snap-ins or metal clamps with gaps.
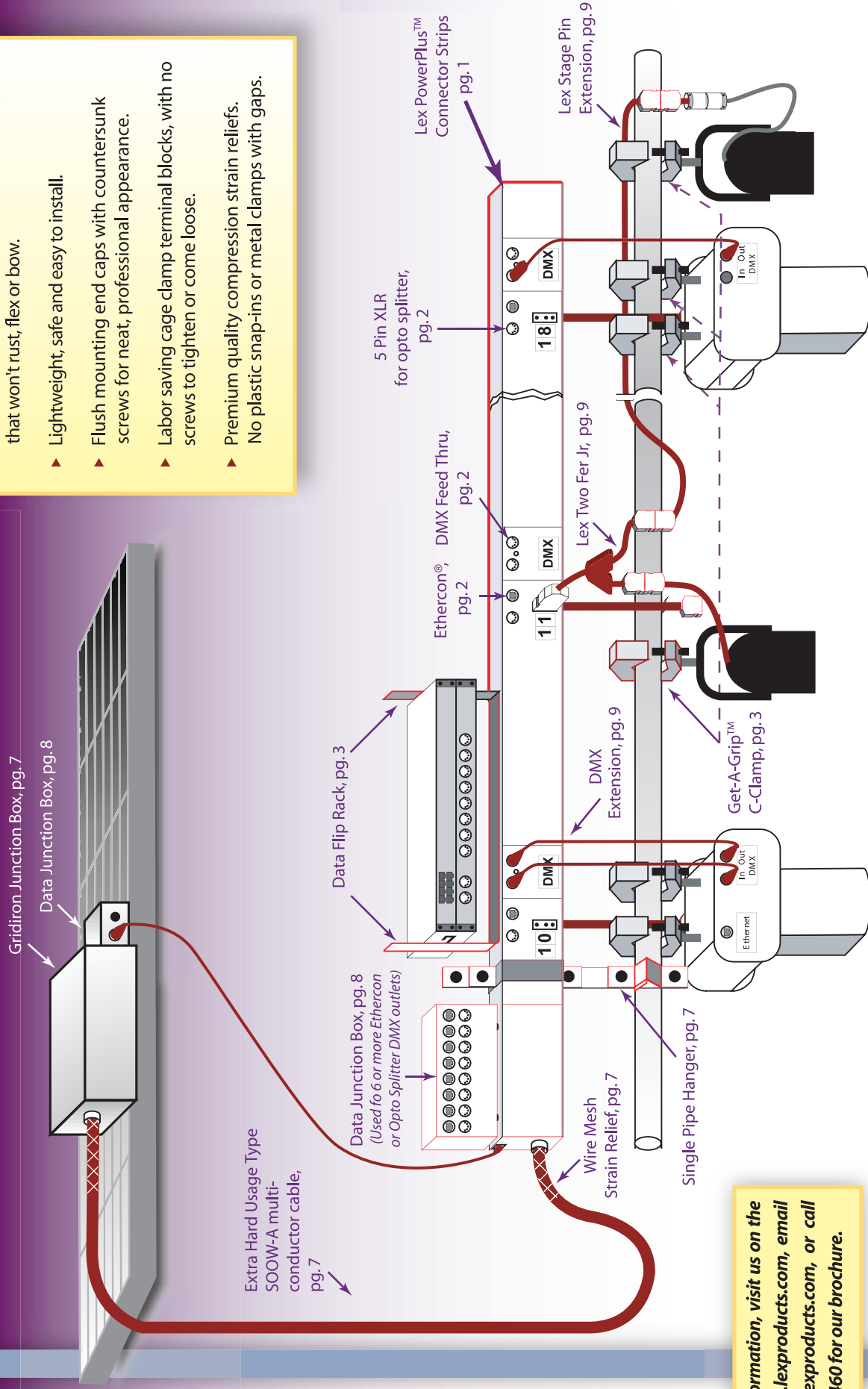
Gridiron Junction Box, pg. 7

Data Junction Box, pg. 8

Extra Hard Usage Type SOOW-A multi-conductor cable, pg. 7

Data Junction Box, pg. 8
(Used fo 6 or more Ethercon or Opto Splitter DMX outlets)

Wire Mesh Strain Relief, pg. 7

Single Pipe Hanger, pg. 7

Data Flip Rack, pg. 3

Ethercon®, DMX Feed Thru, pg. 2

5 Pin XLR for opto splitter, pg. 2

Lex PowerPlus™ Connector Strips pg. 1

Lex Stage Pin Extension, pg. 9

Lex Two Fer Jr, pg. 9

DMX Extension, pg. 9

Get-A-Grip™ C-Clamp, pg. 3

PowerPlus™ Connector Strips

Enclosed electrical wireways designed to provide electrical and data outlets where needed above or around a stage.

DMX Daisy Chain wiring with feed thru switch.

Construction

- 0.125" black enamel finish extruded aluminum wireway with interlocking cover sections
- 20' or longer connector strips combine multiple 10' sections with a mechanical junction sleeve
- Circuits are identified with 2" white die cut labels
- L.E.D. indicator lights are available
- When DMX or Ethernet outlets are provided a separate metal channel separates power and data wiring
- Approved for stage/studio use in the US and Canada

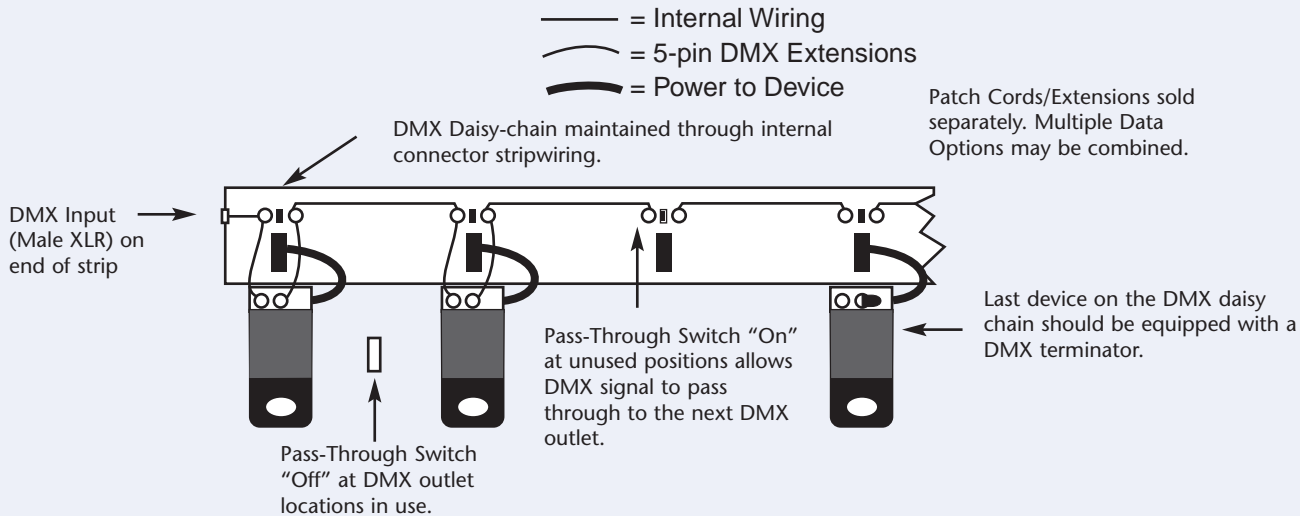 c(UL)US Listed

Power Input Options

- For 6 or less circuits, a cage clamp terminal block is located inside the connector strip. The power input conductors are connected to the terminal block.
- For 7 or more circuits, a separate junction box is provided to house the terminal block and wiring.
- 19 Pin panel mount LSC connectors (Socapex® compatible) can be provided as the power input eliminating the need for installer wiring. Each 19 pin connector delivers (6) 20 Amp circuits (per NEC table 520-544).

Power Outlet Options

Following types of power outlets may be specified:

Outlet Type	Description
2PGFL	20 Amp flush stage pin receptacle
2PGPT*	20 Amp stage pin 18" pigtail (12/3 S00W-A portable cord)
515	15 Amp flush straight black receptacle (12/3 S00W-A portable cord)
5-15PT*	15 Amp flush straight blade 18" pigtail
L520R	20 Amp flush locking receptacle
L520PT*	20 Amp locking 18" pigtail (12/3 S00W-A portable cord)
L620R	20 Amp 220 VAC flush locking receptacle
L620PT*	20 Amp 220 VAC locking 18" pigtail (12/3 S00W-A portable cord)
602PGFL	60 Amp flush stage pin receptacle
602PGPT*	60 Amp stage pin 18" pigtail (4/3 S00W-A portable cord)

* add suffix M for wire mesh support grip

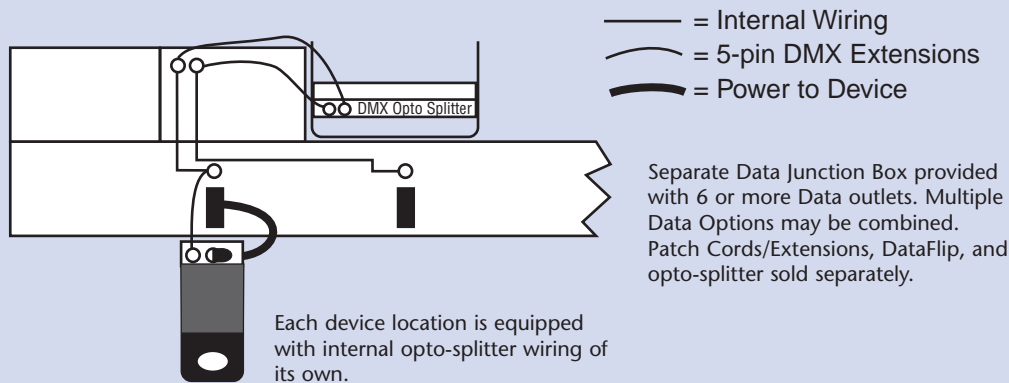| Dimensions	Wireway	Junction Box
Height (Top to Bottom)	4-5/8"	7-1/2"
Depth (Front to Back)	3-3/16"	3-3/16"
Length (End to End	per appl.	per appl.
Weight	6 lbs./ft. typical	

Data Wiring Options

Lex Products offers the following options for data wiring. Contact us if another method is desired. Data flip 19"
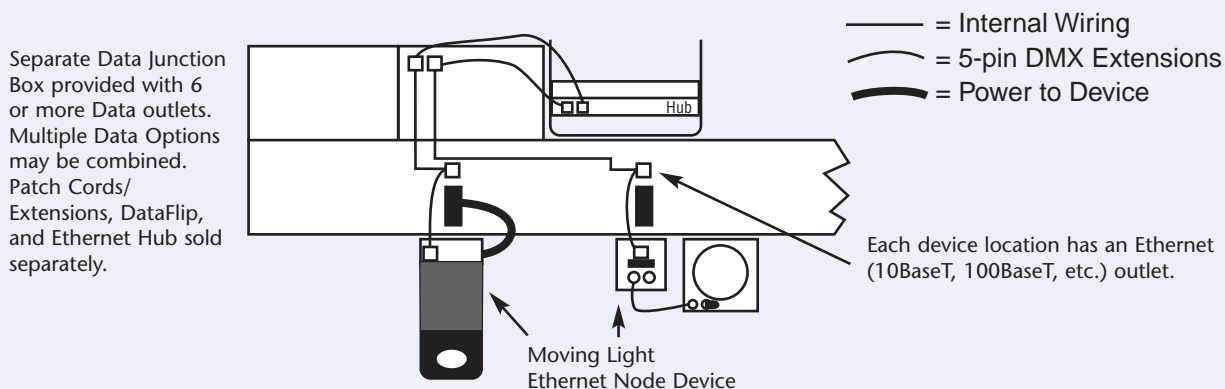rack is sold separately (see page 3).
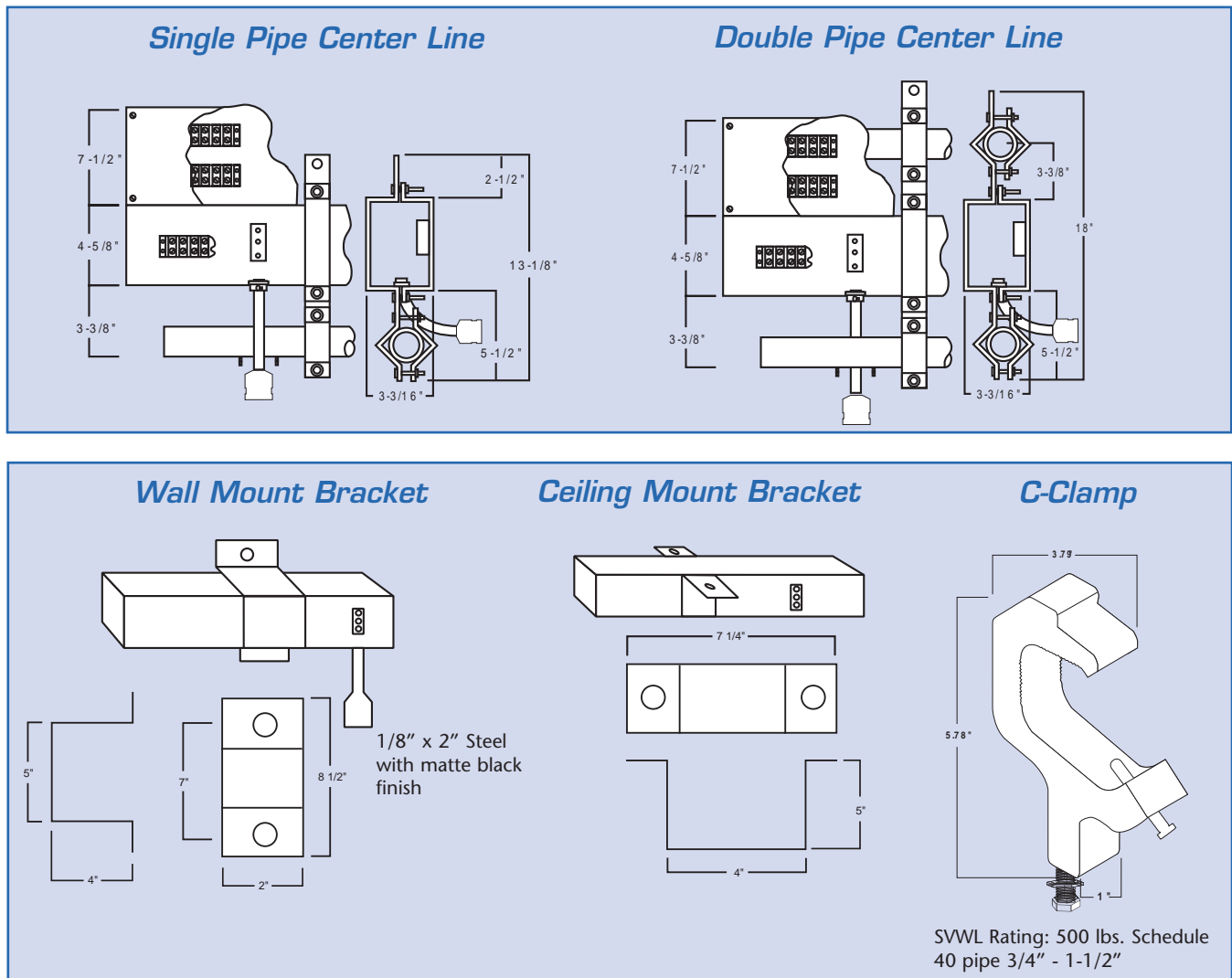
DMX Daisy-Chain (Order Code DMX DC)

—— = Internal Wiring
⌒ = 5-pin DMX Extensions
▬ = Power to Device

Patch Cords/Extensions sold
separately. Multiple Data
Options may be combined.

DMX Daisy-chain maintained through internal
connector stripwiring.

DMX Input
(Male XLR) on
end of strip

Last device on the DMX daisy
chain should be equipped with a
DMX terminator.

Pass-Through Switch "On"
at unused positions allows
DMX signal to pass
through to the next DMX
outlet.

Pass-Through Switch
"Off" at DMX outlet
locations in use.

DMX for use with Opto-Splitter (Order Code DMX OS)

—— = Internal Wiring
⌒ = 5-pin DMX Extensions
▬ = Power to Device

DMX Opto Splitter

Separate Data Junction Box provided
with 6 or more Data outlets. Multiple
Data Options may be combined.
Patch Cords/Extensions, DataFlip, and
opto-splitter sold separately.

Each device location is equipped
with internal opto-splitter wiring of
its own.

Star Ethernet Ethercon® (Heavy duty shrouded RJ45)   (Order code SEE)

—— = Internal Wiring
⌒ = 5-pin DMX Extensions
▬ = Power to Device

Separate Data Junction
Box provided with 6
or more Data outlets.
Multiple Data Options
may be combined.
Patch Cords/
Extensions, DataFlip,
and Ethernet Hub sold
separately.

Hub

Each device location has an Ethernet
(10BaseT, 100BaseT, etc.) outlet.

Moving Light
Ethernet Node Device

PowerPlus™ Connector Strip Mounting Brackets

Single Pipe Center Line

Double Pipe Center Line

Wall Mount Bracket

1/8" x 2" Steel with matte black finish

Ceiling Mount Bracket

C-Clamp

SVWL Rating: 500 lbs. Schedule 40 pipe 3/4" - 1-1/2"

Additional mounting options are available on request. Contact factory with requirements.

Data Flip 19" 2U Rack

Front View

Side View

Up to (2) IU units can be mounted and loaded in the horizontal position where they can be raised or lowered without interference. Allows DMX and Ethernet switches, hubs and opto splitters to be mounted close to instruments they are serving, increasing reliability and performance by reducing cabling.
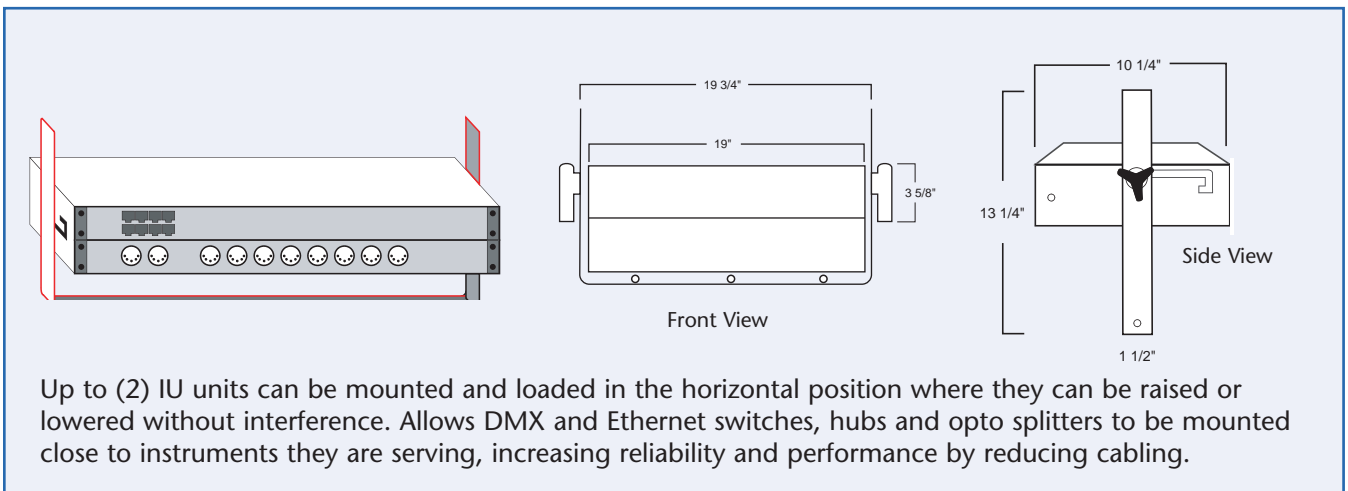
PowerPlus™ Connector Strip Ordering Information

	Length in feet	Quantity of outlets	Outlet type	Number of circuits	Spacing between outlets	Circuit numbering	Indicator lights	Data options	Mounting hardware	Terminal feed end
CATEGORY										
NOTES			Select from page 1	Insert number for each outlet type. Separate outlet types with parenthesis	Insert SE for even or submit separate sheet	N= numbered left to right S= Symetrical	If desired enter letter I	Insert code from page 2	SP for single pipe DP for double pipe	L =Left C =Center R =Right (as you face the front panel of the connector strip)
EXAMPLE	30	16 4	2PGFL 520R	16 1	SE	S	I	DMXDC	SP	L
YOUR APPLICATION										

Separate outlet groups (Quantity, Type and Number of Circuits) with parenthesis.

Example: 30 (162PGFLI6) (4520R1) SES1DMXDCSLL is 30' long with 16 flush stage pin outlets on individual circuits. 4 20 Amp straight blade outlets on one circuit, even spacings symmetrical circuit ID, indicator lights, DMX daisy chain wiring, single pipe mounting brackets and terminals to the left.

Specifications

A. The PowerPlus™ Connector Strip shall be an extruded 0.125" aluminum wireway with interlocking cover sections for strength with length specified as per job requirements. Dimensions shall be 4-5/8" high x 3-3/16" deep.

B. The PowerPlus™ Connector Strip shall have a baked enamel paint finish in black, with outlets identified by 2" white die-cut labels.

C. Terminal blocks shall be DIN rail mounted screwless "cage clamp" type. The terminal compartment for six circuits or less shall be in the wireway itself with a removable access panel. A code gauge steel welded junction box shall be provided for seven circuits or more.

D. The PowerPlus™ Connector Strip shall accomodate c(UL)us Listed outlets ranging from 20-100 Amps, 240VAC maximum. Outlets may be flush mounted to the cover or on 18" 12/3 S00W-A extra hard usage pigtails. Wire mesh grips shall be available for the pigtails as an option.

E. The PowerPlus™ Connector Strip shall accommodate DMX512 Daisy Chain, DMX512 for Opto Splitter or 10 base T ethernet wiring. Data wiring shall be separated from power wiring with a metal barrier. DMX512 wiring shall have Neutrik® Black/Gold input and output connectors. Ethernet wiring shall have Neutric Ethercon® extra heavy duty shrouded jacks.

F. The PowerPlus™ Connector Strip shall be supplied with hanging hardware (cat. #541S) to accommodate a single 2" maximum O.D. pipe. One hanger shall be provided for each 5'-0" of strip length. Hanging hardware (cat. #541D) to accomodate two 2" max O.D. pipes may be provided as an option.

G. The PowerPlus™ Connector Strip shall be c(UL)us Listed for use in the United States and Canada.

Outlet Boxes

Standard enclosure sizes for up to 6 outlets offering surface, flush or pipe mounting.

Construction

- 0.125" black enamel finish aluminum with interlocking cover sections
- Circuits identified with 2" white die cut labels
- LED indicator lights are available
- c(UL)us Listed and labeled

Power Input Options

- Cage Clamp terminal block, or
- 19 pin panel mount LSC connector for 6 circuit applications (Max 20 amp per circuit per NEC table 520-44)

Power Outlet Options

20-60 amp stage pin or NEMA wiring devices. Flush mount, 18" pigtail or 18" pigtail with wire mesh grip. See connector strip section for ordering codes (page 1).

6 outlet box with LSC pin connector input.

Dimensions

	Surface Mount	Pipe Mount	Flush Mount
Box			
Height (Top to Bottom)	4-5/8"	4-5/8"	4-5/8"
Depth (Front to Back)	3-3/16"	3-3/16"	3-3/16"
Width (Side to Side)			
1-2 outlets	6"	6"	6"
3-4 outlets	12"	12"	12"
5-6 outlets	16"	16"	16"
Cover			
Height (Top to Bottom)	4-5/8"	4-5/8"	4-5/8"
Width (Side to Side)			
1-2 outlets	6"	6"	6-21/32"
3-4 outlets	12"	12"	12-21/32"
5-6 outlets	16"	16"	16-21/32"

Mounting Options

Order Code	Description
BBP	Brackets and U Bolts for mounting below pipe
BAP	Brackets and U Bolts for mounting above pipe
FL	Flush mount A 21/32" flange is provided around the perimeter of the box
SM	Surface mount. Holes can be drilled where needed in the enclosure for surface mounting
CC	C-Clamps provided for pipe mount applications

Outlet Box Ordering Information

CATEGORY	Quantity of outlets	Outlet type	Number of circuits	Circuit numbering	Indicator lights	Mounting type
NOTES	Maximum six outlets	Insert order code from page 1		Insert actual numbers	If desired enter letter I	Insert order code from previous page
EXAMPLE	4	2PGPTM	4	1234	I	PB
YOUR APPLICATION						

Example: 42PGPTM41234IPB is a 12" x 4-5/8" x 3-3/16" wide box with (4) 20A stage pin 18" pigtails with wire mesh, on individual circuits numbered 1 through 4 with indicator lights supplied. Hung with single pipe brackets and U-bolts.

Outlet Box Specifications:

The outlet box shall be a ᶜ(UL)ᵤₛ listed wireway constructed of 0.125" black enamel finish aluminum with interlocking cover sections. The exterior dimensions of the wireway shall be 4-5/8" high x 3-3/16" deep by 6" wide for up to 2 outlets, 12" wide for 3 or 4 outlets, 16" wide for 5 or 6 outlets.

Receptacles shall be flush mounted to the cover or attached to 18" 12/3 SOOW-A pigtails (drop cords) or both. Pigtails shall be supported by compression type strain relief fittings mounted to the bottom surface. Wire mesh support grips shall be available for arc of bend relief as an option.

The outlet boxes shall be available in four mounting configurations:
• Surface mount
• Pipe mount with brackets and U-bolts
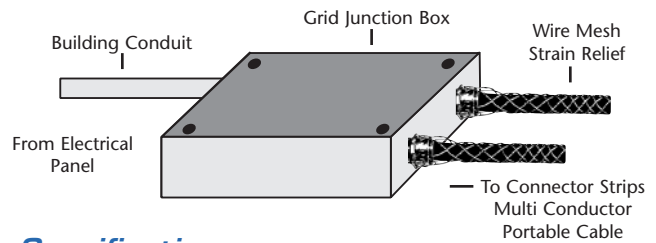• Pipe mount with C-Clamps, and
• Flush (recessed) mount.

Boxes shall be capable of being converted to each mounting type in the field by exchanging accessories at the installation location using only common hand tools. Flush mount covers shall be provided with a 21/32" flange around the perimeter.

Grid Junction Boxes and Accessories

Grid Junction Boxes are the interface between building conduit and multi conductor cables that feed connector strips or outlet boxes. They are typically mounted to grids above the stage or surface mounted to walls.

Dimensions & Circuitry:

	Cat.# 6610J-1	Cat.# 6610J-2	Cat.# 6610J-3	Cat.# 6610J-4
Terminals	24	48	72	96
Height	7.5"	7.5"	7.5"	7.5"
Depth	3"	3"	3"	3"
Width	10"	18"	26"	34"
Circuits	1-12	13-24	25-36	37-48

Building Conduit · Grid Junction Box · Wire Mesh Strain Relief · From Electrical Panel · To Connector Strips Multi Conductor Portable Cable

Specifications:

The junction box shall be an c(UL)us Listed wireway constructed of 16 gauge welded steel. The exterior dimensions of the wireway shall be 7-1/2" high x 3" deep, with the width being dependent upon the number of circuits specified.

The junction box shall include a removable steel cover to allow access to the wiring and cage clamp terminals. The proper number of terminals shall be provided to allow the installation of separate hot and neutral conductors for each electrical circuit. Terminal blocks shall be non loosening, cage clamp style. Separate lugs shall be provided for terminating any grounding conductor.

All painted surfaces shall be baked enamel.

Multi-Conductor Portable Cords & Strain Reliefs UL Listed CSA Certified

Extra Hard Usage Type S00W-A Portable Cord as required in theatrical applications by NEC Article 520.

Insulated Box Mount Strain Relief Grips

Standard Duty Support Grips Single Eye Closed Mesh

Catalog Number	No. of Conduct.	AWG Size	Cond. Strand	Nominal O.D. Inches	Nominal O.D. MM	Approx. LBS/M'	Strain Relief Grip	Support Grip
09205	5	12	65/30	0.715	18.03	325	073031209	02201014
09207	7	12	65/30	0.790	19.56	410	073031210	02201015
09208	8	12	65/30	0.825	20.96	460	073031210	02201015
09209	9	12	65/30	0.900	22.86	505	073031210	02201015
09210	10	12	65/30	1.000	25.40	580	073031211	02201017
09212	12	12	65/30	1.010	25.65	650	073031211	02201017
09214	14	12	65/30	1.020	27.43	715	073031211	02201017
09216	16	12	65/30	1.135	28.83	825	073031211	02201017
09218	18	12	65/30	1.175	29.97	895	073031211	02201017
09220	20	12	65/30	1.175	30.48	965	073031211	02201017
09224	24	12	65/30	1.375	35.56	1240	073031212	02201018
09226	26	12	65/30	1.400	35.56	1290	073031212	02201018
09227	27	12	65/30	1.455	37.72	1325	073031212	02201018
09228	28	12	65/30	1.500	38.10	1355	073031212	02201019
09230	30	12	65/30	1.500	38.10	1450	073031212	02201019
09236	36	12	65/30	1.655	41.99	1670	073031213	02201019
09240	40	12	65/30	1.690	42.93	1830	073031213	02201019
09244	44	12	65/30	1.885	47.88	2000	073031214	02201020
09250	50	12	65/30	1.970	50.04	2300	073031214	02201020
09005	5	10	104/30	0.770	19.56	465	073031210	02201015
09006	6	10	104/30	0.875	22.23	505	073031210	02201015
09008	8	10	104/30	0.935	23.75	625	073031210	02201015
09010	10	10	104/30	1.020	25.91	755	073031211	02201017
09012	12	10	104/30	1.070	24.51	850	073031211	02201017
09016	16	10	104/30	1.230	31.24	1140	073031211	02201017
09020	20	10	104/30	1.325	33.66	1445	073031212	02210018

Data Outlet System

- A flexible, economical system for interfacing between building wiring and patch cables.
- Allows surface, flush or pipe mounting of data outlets.

Step One

Select the insert or combination of inserts that gives you the data outlets you require.

Step Two

Select the faceplates based on the number of inserts. (For one insert select a one gang plate, etc.)

Step Three

Select the surface, flush or pipe mount back box for the installation.

Surface mount

Pipe mount

Cat. no.	Inserts Description
I5XERM	Male 5 pin XLR
I5XF	Female 5 pin XLR
I5XMF	One Male and one Female 5 pin XLR
I5XMM	Two Male 5 pin XLR
I5XFF	Two Female 5 pin XLR
I6XRFU	One Female 6 pin XLR ETC RFU
I6XHHR	One Female 6 pin XLR Strand and Colortran HHR
IRJEC	Neutrik® Ethercon® RJ45 (Extra Heavy Duty Shrouded Connectors)
I3XM	Male 3 pin XLR
I3XF	Female 3 pin XLR
I4XM	Male 4 pin XLR
I4XF	Female 4 pin XLR
IBK	Blank Insert

Face Plates

Cat. No.	Description
WP15	One Gang Face Plate
WP25	Two Gang Face Plate
WP35	Three Gang Face Plate
WP45	Four Gang Face Plate
WP55	Five Gang Face Plate
WP65	Six Gang Face Plate

Standard finish is black. Use suffix SS for stainless steel finish.

Back Boxes

Description	Flush	Surface	Pipe Mount
One gang	BB1F	BB1S	BB1PM
Two gang	BB2F	BB2S	BB2PM
Three gang	BB3F		
Four gang	BB4F	BB4S	BB4PM
Five gang	BB5F		
Six gang	BB6F	BB6S	BB6PM

Surface and pipe mount boxes are not available in 3 or 5 gang.

For 3 gang surface applications use a four gang box and face plate with additional blank insert.

For 5 gang use a 6 gang box and face plate with an additional blank insert.

Cable Assemblies

Lex Products builds every conceivable cable assembly used in entertainment. We've listed the most prevalent used in conjunction with connector strips below. Contact us or visit us on the web to see the full line of Lex cable assemblies.

Power Extensions

Type	Rating	Male Connector	Portable Cord	Female Connector	Configuration	Catalog Number
Stage Pin	20A 125V 2P3W	20A 2P3W Stage Pin	12/3 SOW-A Extra Hard Usage	20A 2P3W Stage Pin	N/A	BE7000-XX
Edison	15A 125V 2P3W	NEMA 5-15P All Black	12/3 SOW-A Extra Hard Usage	NEMA 5-15R All Black		PE7000-XX-515
NEMA Locking	20A 125V 2P3W	NEMA L5-20P All Black	12/3 SOW-A Extra Hard Usage	NEMA L5-20R All Black		PE7000-XX-L520

XX - indicate length

Data Cables

Type	Rating	Male Connector	Portable Cord	Female Connector	Configuration	Catalog Number
DMX 512		Neutrik Black/Gold	2 Pair & Shield 22 AWG*	Neutrik Black/Gold	5 Pin XLR	DMX-5P-XX
Color Changer		Neutrik Black/Gold	1 Pair & Shield 22 AWG, 2 #14 AWG*	Neutrik Black/Gold	4 Pin XLR	CC-4P-XX
Remote Focus		Neutrik Black/Gold	3 Pair & Shield 22 AWG*	Neutrik Black/Gold Male	6 Pin SC Compatible	RFU-XX-MM
Ethercon® RJ45		Neutrik Ethercon® Male	4 Pair 24 AWG Industrial Grade	Neutrik Ethercon® Male	RJ45 Shrouded	CAT5-EC-XX
Ethernet		Heavy Duty RJ45 Male with Boot	4 Pair 24 AWG Industrial Grade	Heavy Duty RJ45 Male with Boot	RJ45	CAT5-XX

XX - indicate length

Two-Fers and Three-Fers (Lex Two-Fer JR ᶜ(U̲L̲)ᵘˢ File E219086)

Type	Rating	Male Connector	Portable Cord	Female Connector	Configuration	Catalog Number
Stage Pin	20A 125V 2P3W	(1) 20A 125V 2P3W Stage Pin	12/3 SJTOW-A Molded Y 36" Length	(2) 20A 125V 2P3W Stage Pin	N/A	3123J-SP*
Edison Two-Fer	15A 125V 2P3W	(1) NEMA 5-15P All Black	12/3 SJTOW-A Molded Y 36" Length	(2) NEMA 5-15 All Black		3123J-515*
NEMA Locking	20A 125V 2P3W	(1) NEMA L5-20 All Black	12/3 SJTOW-A Molded 36" Length	(2) NEMA L5-20 All Black		3123J-L520*

*Also available as three-fer – Replace 3123 with 4123

About Lex Products

3 Phase Power

Just as an efficient electrical system utilizes 3 phases to ensure a smooth uninterrupted flow of power, Lex Products embraces a 3 Phase Philosophy to consistently exceed our customers' expectations.

The First Phase is **INNOVATION** in product design. In evaluating a new or re-designed product, we endeavor to design its features with the newest technology to provide the best, most convenient, time-saving and practical advantages. But our most important goal is for our products to be safer, more convenient and longer-lasting.

The second phase is **QUALITY** of manufacture. Simply put, we are obsessed with the manufactured quality of the products that we build. The components that we utilize must meet strict criteria before going into one of our cable assemblies or power distribution products. And, if we can't find the proper component, we have been known to design and tool-it-up ourselves. At every stage in the manufacturing process, we go through a rigorous testing and inspection process to ensure that the multitude of electrical and control circuitry is intact and in perfect working order. Before the Lex label is ever applied, every component that goes into a Lex Product must meet our standards, or it won't be let out of the shop.

The third phase is **SERVICE**. We built our business by meeting delivery deadlines for the motion picture industry, theater, concerts, and live-events. When a customer calls with a need, we'll do whatever is humanly and physically possible to ensure their success. And don't be surprised if we call to see how your application went. We want to find out if there is anything we can do to improve the product for the future. At Lex, 360^0 Feedback is not just a buzz word.

So that is the Lex Products Philosophy: **Innovation, Quality** and **Service**. It is this 3-Phased approach that has made our company grow and expand into new and emerging markets, such as the Military, Convention and Industrial sectors. And, it is this approach that will ensure our future growth.

For more information on Lex Products, visit www.lexproducts.com, email us at info@lexproducts.com, or call us toll free at 1-800-643-4460.

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