**Middle Atlantic Products, Inc.**

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Telescoping Lacer System

- Adjusts to fit front to rear or horizontally within any Middle Atlantic Products enclosure
- Provides for effective cable management and cable strain relief
- Accepts mounting of vertical lacer strips and thin power strips for a complete cable management system

LBFR-2036-T

LBH-1930-T

LBFR-5A-20
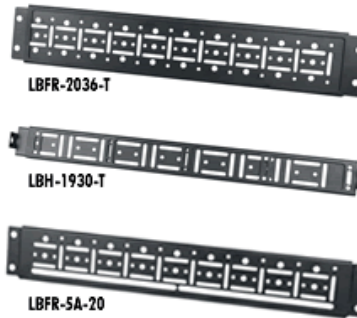
Part #	Description	Telescoping Range (from mounting hole to mounting hole)	Useable Depth of Rack (requires rear rackrail)	Pre-Pack Qty
LBFR-1626-T	front to rear telescoping lacer bar	16" to 26"	17-3/8" to 27-3/8"	2
LBFR-2036-T	front to rear telescoping lacer bar	20" to 36"	21-3/8" to 37-3/8"	2
LBFR-3650-T	front to rear telescoping lacer bar	36" to 50"	37-3/8" to 51-3/8"	2
LBH-1930-T	horizontal telescoping lacer bar	19" to 30"	20-3/8" to 31-3/8"	2
LBFR-5A-16	front to rear lacer bar (fits AXS racks)	16" only	17-3/8"	2
LBFR-5A-20	front to rear lacer bar (fits AXS, AX-SXR and SLIM 5 racks)	20" only	21-3/8"	2
LBFR-5A-26	front to rear lacer bar (fits AXS and SLIM 5 racks)	26" only	27-3/8"	2

LBH-1930-T
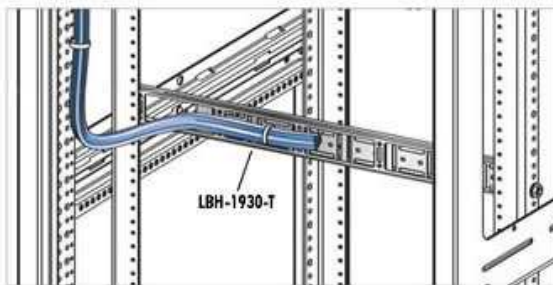
A complete cable management system, the NEW telescoping lacer bars adjust to fit any Middle Atlantic Products rack.

LBFR-xxxx-T
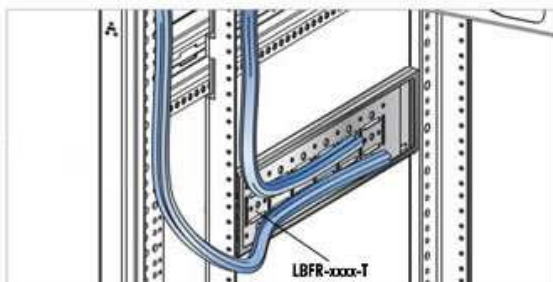
Allows vertical and horizontal cable management.
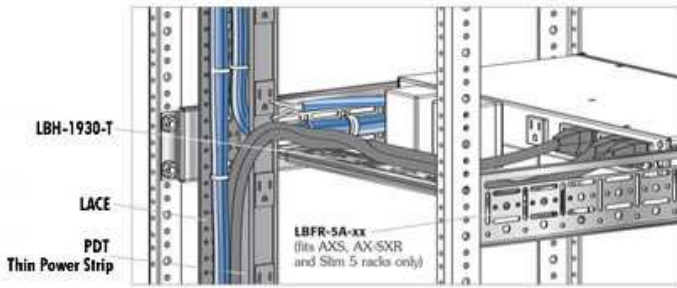
Cable strain relief!

Horizontal Lacer Bars

The economical and effective way to manage cable horizontally. Made from 1/4" diameter flattened rod (model LBP-1R, LBP-1.5, and model LBP-1R4) or 3/16" thick aluminum (model LBP-1S), each bar provides convenient cable tie points. Model LBP-1R4 features a 4" offset, and model LBP-1.5 features a 1-1/2" offset, for easy viewing of cable identification, while model LBP-1A features a formed "L" shape, generous cable tie slots, and a special coating to protect cables. All lacer bars sold in packs of 10. Black powder coat finish unless otherwise specified above.

Part #	Style	Pre-pack Qty
LBP-1R	round rod	10
LBP-1S	rectangular bar	10
LBP-1. 5	1. 5" offset round rod	10
LBP-1R4	4" offset round rod	10
LBP-1A	"L" bar	10
LBP-2A	"L" bar, 2" offset	10
LBP-4A	"L" bar, 4 " offset	10
LBP-6A	"L" bar, 6 " offset	10
LBP-1A-23	"L" bar, 23" width	10
LBP-LTF	2 space lacer panel	10
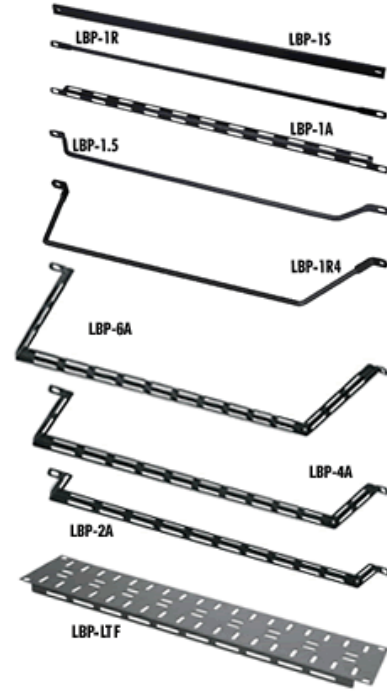
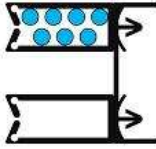## Horizontal Cable Managers

▲TOP

- Available in a variety of styles to suit any application
- Welded steel construction
- Finished in durable black powdercoat
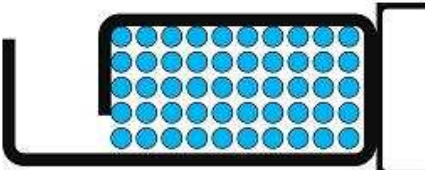
A&E Spec. *#96-337* Download or view PDF file

HCM-1DV, HCM-2D, HCM-2DV

HCM-1, HCM-1V, HCM-1D

HCM-1DR, HCM-2DR

Part #	Description	Panel Width	Cable Rings (see below)	End Rings (see below)
HCM-1	1-3/4" (1 space) "micro-clip" style	19"	A	-
HCM-1V	1-3/4" (1 space) "micro-clip" style, w/ end rings	19"	A	C
HCM-1D	1-3/4" (1 space) "D-Ring" style	19"	B	-
HCM-1DV	1-3/4" (1 space) "D-Ring" style, w/ end rings	19"	B	C
HCM-2D	3-1/2" (2 space) "D-Ring" style	19"	C	-
HCM-2DV	3-1/2" (2 space) "D-Ring" style, w/ end rings	19"	C	C
HCM-1DR	1-3/4" (1 space) "D-Ring", front and rear	19"	B	-
HCM-2DR	3-1/2" (2 space) "D-Ring", front and rear	19"	C	-
HCM-1D-23	1-3/4" (1 space) "D-Ring" style, 23" width	23"	B	-
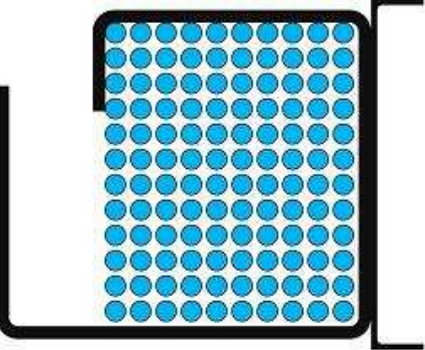
| HCM-2D-23 | 3-1/2" (2 space) "D-Ring" style, 23" width | 23" | C | - |
| **D-RING** | wall-mount/ rackmount "D-Ring" | - | C | - |

A

Cabling area: 0.45" sq. Recommended fill rate: 50% CAT5e cable area: 0.03" sq. # of CAT5e cables: 7

B

Cabling area: 3.125" sq. Recommended fill rate: 50% CAT5e cable area: 0.03" sq. # of CAT5e cables: 50

C

Cabling area: 7.5" sq. Recommended fill rate: 50% CAT5e cable area: 0.03" sq. # of CAT5e cables: 120

Hinged Horizontal Cable Managers

- Dress cables between open frame racks and other enclosures
- Cable strain relief provides more reliable connections
- Multiple cable pass-throughs - top, rear, bottom and sides
- Solid face conceals cables from view
- Hinged panel allows easy entry for and access to cable bundles

HHCM-2

#96-01003 Download or view PDF file

Part #	Racking Height	Panel Width	Depth
HHCM-1	One rackspace, hinged horizontal cable manager	19"	3.5"
HHCM-2	Two rackspace, hinged horizontal cable manager	19"	3.5"

Vertical Lacer Strips

Perforated steel lacer strips mount vertically to rackrail brackets and provide many locations for securing cable ties. Lacer strips can be cut down easily to smaller sizes. LACE-OWP and LACE-OP strips feature tie posts for sliding on pre-wrapped cable bundles using cable ties or up to 3/4" wide Velcro® straps. Some lacer strips also accept cage nuts or mounting of select power strips for increased versatility.

Part #	Description	Qty	Compatible Options			
			Cable Ties	TSW-15	TW12	Cage Nuts
LACE-44-OWP*	4-3/4" width, 44 space w/ tie posts	6	✓	✓	✓	✓
LACE-40-OWP*	4-3/4" width, 40 space w/ tie posts	6	✓	✓	✓	✓
LACE-23-OWP* *NEW*	4-3/4" width, 23 space w/ tie posts	6	✓	✓	✓	✓
LACE-13-OWP *NEW*	3-1/4" width, 13 space w/ tie posts	6	✓	✓	✓	✓

LACE-44-OWP   LACE-44-OP

Part #	Description	Qty.				
LACE-44-OP	3-1/4" width, 44 space w/ tie posts	6	✓	✓	✓	✓
LACE-40-OP	3-1/4" width, 40 space w/ tie posts	6	✓	✓	✓	✓
LACE-37-OP	3-1/4" width, 37 space w/ tie posts	6	✓	✓	✓	✓
LACE-23-OP *NEW*	3-1/4" width, 23 space w/ tie posts	6	✓	✓	✓	✓
LACE-13-OP *NEW*	3-1/4" width, 13 space w/ tie posts	6	✓	✓	✓	✓
LACE-44LP	3-1/2" width, 44 space w/ raised lances	6	✓	-	✓	-
LACE-37LP	3-1/2" width, 37 space w/ raised lances	6	✓	-	✓	-
LACE-P	2" width, 45 space, 1/8" thick w/ round holes	6	✓	✓	-	-
LACE-37P	2" width, 37 space, 1/8" thick w/ round holes	6	✓	✓	-	-
LACE-13P *NEW*	2" width, 13 space, 1/8" thick w/ tie posts	6	✓	✓	-	-
LACE-44-1SP	1" width, 44 space w/ 10 tie saddles	6	✓	included	✓	-
LACE-37-1SP	1" width, 37 space w/ 10 tie saddles	6	✓	included	✓	-
LACE-44-1P	1" width, 44 space tapped for tie saddles	6	✓	✓	-	-
LACE-37-1P	1" width, 37 space tapped for tie saddles	6	✓	✓	-	-

*NOTE: Also accepts mounting of PD Slim and PDT Series vertical power

No need to fish in cable ties and straps
- just slide them on!

LACE-44-1P   LACE-44-1SP

LACE-44-LP   LACE-P

TSW-15 tie saddles (qty. 15)   TW12 Velcro® cable strap (qty. 12)

Cable Management Pad - *NEW!*

Innovative material mounts to OWP Series Lace and reduces weight of cables by 40% and stops the need to over tighten cable fasteners to the point of deformation. Heavy cable bundles are kept in place, reducing strain on connections and tie points with the anti-slip cable pad's permanent high friction surface. The ASP-OWP also reduces the occurences of Return Loss by avoiding over-tightening hook and loop straps.

Part #	Qty.
ASP-OWP	4
ASP-OWP-6	24
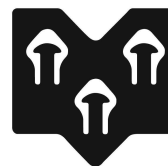
ASP-OWP

ASP-OWP on
LACE-44-OWP

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The Brush Grommet Panel

The brush grommet panels provide a clean, organized cable entry method when used in conjunction with any work surface. Features a built-in cable management tray. Available in 1 and NEW 2 space versions. 2 space

brush grommet panel fits in opening on all MW Series top options.

Part #	Racking Height
BR1	1-3/4" (1 space)
BR2	3-1/2" (2 space)

Cable Management Straps

Fasten cable bundles securely while maintaining the integrity of the cable. TW12 cable management straps are perfect for managing cables that are sensitive to strain and are 8" long.

Part #	Description	Qty
TW12	8" cable/wire management straps	12

Protective Grommet

Protect cables with these rubber grommets. The 30 ft. GR030 can be custom cut for any opening. GK4 grommets work with any 4" trade-size electrical knockout and resist cable chafing. The GK-4G gland grommets additionally block dust and help control airflow within an enclosure. 4" grommets are sold in packs of four.

GR-30

Part #	Description	Qty
GR-30	grommet, 30 ft. long, fits any material up to 1/8" thick	1
GK4	4" grommet ring	4
GK-4G	4" gland grommet	4

GK4

GK-4G

The Claw

The unique dual-size "claw" configuration of this versatile wallmount cable hanger provides efficient storage for all cables large and small. Convenient side trays hold small items. 16" wide x 3-1/2" deep, black powder coat finished.

Part #
CLAW

Horizontal Cable Tray

- Mounts on any 19" rack
- Neatly routes cables side-to-side on face of rack
- Finished in durable black powdercoat

TIA/EIA Compliant

HCT-1

Part #	Racking Height
HCT-1	1-3/4" (1space)
HCT-2	3-1/2" (2 space)

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Utility Panel

Give your drill a rest - our panels are pre-punched with plenty of slots. This economical panel is capable of mounting everything from electrical boxes to power strips. 16-gauge flanged steel construction, black powder coat finish, occupies 1 rackspace (1 3/4").

Part #
UP1

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