

USER GUIDE

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UG-M036 2024-11-25

Manta 1RU Fiber Patch Panel

Rack Mount, 1RU, Splicing and Patching up to 48 Fibers

The Manta 1RU Fiber Patch Panel is designed to offer an easy to use easy to access solution for fiber patching and fiber optic splicing.

This rack mount fiber patch panel will hold 2 LGX style adapter plates, includes multiple anchor points for securing internal cable routing, and features a slide out tray for easy access. The front features built-in connector protection keeping connectors safe from accidental bumps and swipes.

Adapter plates and splice trays may be ordered separately or ordered preinstalled. Pigtails may be ordered separately or may be ordered bundled together with the patch panel for convenience.

Key Features

- Holds 2 LGX® adapter plates
- Built-in cable management hooks
- Built-in lip for bump protection
- Multiple built-in anchor points to secure fiber cable routing
- Includes 2 strength member clamps for securing entry cable
- Includes Velcro® straps for cable management

Compatibility

- RLH-FST-01 – 12 Position Fiber Splice Tray
- RLH-FST-01-FSPS – 12 Position Fiber Splice Tray w/ Splice Sleeves



Manta 1RU Fiber Patch Panel (closed)



Manta 1RU Fiber Patch Panel (open)

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Installation

Rack Mounting

Choose a suitable 19" equipment or telco rack location with room for the fiber tray to extend out and allow for easy access to the interior. The rack ears are designed for 19" racks and the fiber patch panel will occupy 1RU once installed. Pre-position the unit in the rack to plan out fiber cable routings and check for any potential problems with the location, then fasten the unit to the equipment rack rails with the hardware provided.

Main Tray

The main tray can slide out the front of the housing for access to the front part of the housing. The main tray may also be completely removed for complete access to the interior.

The tray comes with 2 built-in strain relief clamps, one on each side. It includes fiber cable management spools for cable slack storage. Optional Splice trays are available for placement in the center of the tray.

Adapter Plates

The Manta 1RU patch panel accommodates 2 adapter plates. The LGX style adapter plates are easily installed and removed by pushing in or pulling out the two finger plunger latches on each side of the plate. When the plunger latches are in the OUT position, the fiber adapter plate can be inserted or removed. Pushing the latch into the IN position locks the adapter plate into position and prepares the plate for use.

Splice Trays

The optional fiber splice trays mount into the center of the tray between the fiber cable management spools. They're held in place by hook and loop straps that are routed through the built-in lances. When the splice trays are used be sure to route slack cable around the fiber management spools.

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Ordering Information

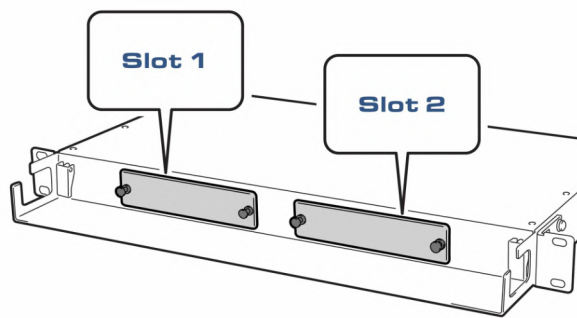
Use the following part number when ordering the patch panel without fiber adapter plates or pigtails.

Description	Capacity	Dimensions	Part Number
Manta 1RU Fiber Patch Panel	2 Fiber Adapter Plates	16.93" (W) x 1.72" (D) x 11.58" (H)	MANTA2-1

- Fiber adapter plates and/or pigtails can be ordered separately; plates can be preinstalled, while pigtails will be bundled

Ordering with Fiber Adapter Plates, Pigtails, and Splice Trays

Use the ordering code below to order the patch panel with fiber adapter plates and/or splice trays preinstalled, and/or pigtails included. Refer to the Fiber Adapter Plate Chart and the Fiber Pigtail Chart on the following pages.



Example #1: **M2 - 32 - 32 - 41 - 41 - 2 - 1**

Slot 1 (32):	AP-SC6-LDSM-B
Slot 2 (32):	AP-SC6-LDSM-B
Slot 1 (41):	RLH-12SMSC-03M
Slot 2 (41):	RLH-12SMSC-03M
Splice Trays (2):	RLH-FST-01

Example #2: **M2 - 08 - 08 - 00 - 00 - 0 - 1**

Slot 1 (08):	AP-ST12-LSMM-B
Slot 2 (08):	AP-ST12-LSMM-B
Slot 1 (00):	None
Slot 2 (00):	None
Splice Trays (0):	None

M2 - XX - XX - XX - XX - X - 1

Slot 1 Slot 2 Slot 1 Slot 2

Fiber Adapter Plates

Use the code from the Adapter Plate Chart* to populate slots with adapter plates

Fiber Pigtails

Use the code from the Fiber Pigtail Chart* to have them bundled together with the patch panel

Splice Trays

Enter the quantity of 12-fiber splice trays required (0 to 2) – PN: RLH-FST-01

*Please refer to the **Fiber Adapter Plate Chart** and the **Fiber Pigtail Chart** on the following pages.

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Ordering Information (cont'd)

Adapter Plate Chart

Use the Adapter Code to specify the desired plate style to be preinstalled.

Adapter Plate Style						Supported Fiber Types	Black Plate Part Number	Adapter Code
Adapter	Mode	Type	Fibers	Positions	Color			
Blank	—	—	—	—	—	—	AP-BLANK-B	00
ST	SM	Simplex	6	6	Yellow Caps	OS1/OS2	AP-ST6-LSSM-B	01
			12	12	Yellow Caps	OS1/OS2	AP-ST12-LSSM-B	03
	MM	Simplex	6	6	Black Caps	OM1~OM4	AP-ST6-LSMM-B	06
			12	12	Black Caps	OM1~OM4	AP-ST12-LSMM-B	08
FC	SM	Simplex	6	6	Yellow Caps	OS1/OS2	AP-FC6-LSSM-B	20
	MM	Simplex	6	6	Black Caps	OM1/OM2	AP-FC6-LSMM-B	23
FC/APC	SM	Simplex	6	6	Green Caps	OS1/OS2	AP-FA6-LSSM-B	26
SC	SM	Simplex	6	6	■ blue	OS1/OS2	AP-SC6-LSSM-B	30
		Duplex	12	6	■ blue	OS1/OS2	AP-SC6-LDSM-B	32
	MM	Simplex	6	6	■ beige	OM1/OM2	AP-SC6-LSMM-B	33
		Duplex	12	6	■ beige	OM1/OM2	AP-SC6-LDMM-B	35
SC/APC	SM	Simplex	6	6	■ green	OS1/OS2	AP-SA6-LSSM-B	36
		Duplex	12	6	■ green	OS1/OS2	AP-SA6-LDSM-B	38
SC 10G	MM	Simplex	6	6	■ aqua	OM3/OM4	AP-SC6-LSMX-B	39
		Duplex	12	6	■ aqua	OM3/OM4	AP-SC6-LDMX-B	41
LC	SM	Duplex	6	3	■ blue	OS1/OS2	AP-LC3-LDSM-B	51
			12	6	■ blue	OS1/OS2	AP-LC6-LDSM-B	52
		Quad	24	6	■ blue	OS1/OS2	AP-LC6-LQSM-B	54
	MM	Duplex	6	3	■ beige	OM1/OM2	AP-LC3-LDMM-B	56
			12	6	■ beige	OM1/OM2	AP-LC6-LDMM-B	57
		Quad	24	6	■ beige	OM1/OM2	AP-LC6-LQMM-B	59
LC/APC	SM	Duplex	6	3	■ green	OS1/OS2	AP-LA3-LDSM-B	61
			12	6	■ green	OS1/OS2	AP-LA6-LDSM-B	62
		Quad	24	6	■ green	OS1/OS2	AP-LA6-LQSM-B	64
LC 10 GIG	MM	Duplex	6	3	■ aqua	OM3/OM4	AP-LC3-LDMX-B	66
			12	6	■ aqua	OM3/OM4	AP-LC6-LDMX-B	67
		Quad	24	6	■ aqua	OM3/OM4	AP-LC6-LQMX-B	69
CAT6 RJ-45	—	Coupler	-	4	-	-	AP-RJCAT6-CP4-B	90
		Punchdown	-	4	-	-	AP-RJCAT6-PD4-B	91

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Ordering Information (cont'd)

Fiber Pigtail Chart

Use the Pigtail Code to specify the desired 900µm Spiral Wrap Splice-on Fiber Pigtail to be included.

900µm Spiral Wrap Splice-on Pigtail				Part Number	Pigtail Code
Adapter	Mode	Fibers	Fiber Type		
N/A	N/A	N/A	N/A	NONE	00
ST	SM	6	OS1/OS2	RLH-06SMST-03M	01
		12	OS1/OS2	RLH-12SMST-03M	02
	MM	6	OM1	RLH-06MMST-03M	06
			OM2	RLH-06M5ST-03M	07
			OM3	RLH-06MXST-03M	08
			OM4	RLH-06MCST-03M	09
		12	OM1	RLH-12MMST-03M	12
			OM2	RLH-12M5ST-03M	13
			OM3	RLH-12MXST-03M	14
			OM4	RLH-12MCST-03M	15
	SM	6	OS1/OS2	RLH-06SMFC-03M	20
		12	OS1/OS2	RLH-12SMFC-03M	21
	MM	6	OM1	RLH-06MMFC-03M	23
			OM2	RLH-06M5FC-03M	24
			OM3	RLH-06MXFC-03M	25
			OM4	RLH-06MCFC-03M	26
		12	OM1	RLH-12MMFC-03M	28
			OM2	RLH-12M5FC-03M	29
			OM3	RLH-12MXFC-03M	30
			OM4	RLH-12MCFC-03M	31
FC/APC	SM	6	OS1/OS2	RLH-06SMFA-03M	33
		12	OS1/OS2	RLH-12SMFA-03M	34
SC	SM	6	OS1/OS2	RLH-06SMSC-03M	40
		12	OS1/OS2	RLH-12SMSC-03M	41
	MM	6	OM1	RLH-06MMSC-03M	43
			OM2	RLH-06M5SC-03M	44
			OM3	RLH-06MXSC-03M	45
			OM4	RLH-06MCSC-03M	46
		12	OM1	RLH-12MMSC-03M	48
			OM2	RLH-12M5SC-03M	49
			OM3	RLH-12MXSC-03M	50
			OM4	RLH-12MCSC-03M	51
SC/APC	SM	6	OS1/OS2	RLH-06SMSA-03M	53
		12	OS1/OS2	RLH-12SMSA-03M	54
LC	SM	6	OS1/OS2	RLH-06SMLC-03M	60
		12	OS1/OS2	RLH-12SMLC-03M	61
	MM	24	OS1/OS2	RLH-12SMLC-03M (2)	62
		6	OM1	RLH-06MMLC-03M	63
			OM2	RLH-06M5LC-03M	64
			OM3	RLH-06MXLC-03M	65
			OM4	RLH-06MCLC-03M	66
		12	OM1	RLH-12MMLC-03M	68
			OM2	RLH-12M5LC-03M	69
			OM3	RLH-12MXLC-03M	70
			OM4	RLH-12MCLC-03M	71
		24	OM1	RLH-12MMLC-03M (2)	73
			OM2	RLH-12M5LC-03M (2)	74
			OM3	RLH-12MXLC-03M (2)	75
			OM4	RLH-12MCLC-03M (2)	76
LC/APC	SM	6	OS1/OS2	RLH-06SMLA-03M	78
		12	OS1/OS2	RLH-12SMLA-03M	79
		24	OS1/OS2	RLH-12SMLA-03M (2)	80

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Adapter Plates: (sold separately)	Holds 2 LGX® plates Up to 24 Fibers each plate * Includes 2 Blank Adapter Plates when not ordered with accompanying adapter plates
Mounting:	19" Rack Mount, 1RU
Environmental:	Indoor or inside weatherproof enclosure
Construction:	Powder coated steel
Accessory Kit:	Qty. 8 - 4" x 1/4" Velcro® straps for securing fiber cable Qty. 2 - 13.5" x 1/4" Velcro® straps for securing optional fiber splice tray Qty. 6 - 8" Cable ties for securing entry cable Qty. 4 - Cage nuts and bolts for rack mounting
Dimensions:	16.93" (W) x 11.58" (D) x 1.72" (H), (430mm x 294mm x 44mm) * Not including ears

Contact

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