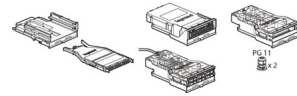**Manuals+** — User Manuals Simplified.

**legrand 0 321
Series Cassettes
and Blocks for
Modular Panels**

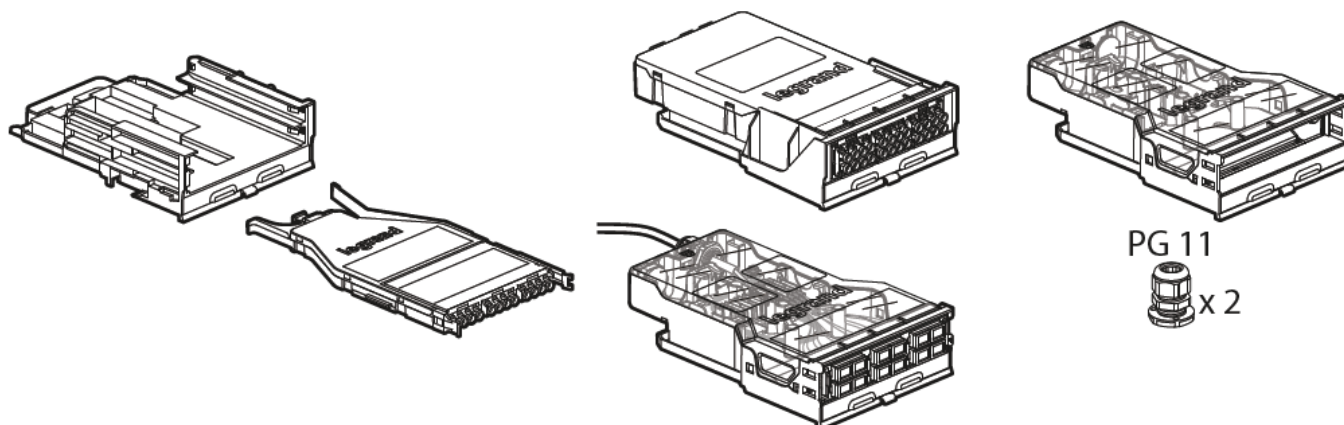# legrand 0 321 Series Cassettes and Blocks for Modular Panels Instruction Manual

Contents

legrand 0 321 Series Cassettes and Blocks for Modular Panels

PG 11

⬚ x 2

Specifications

- Product: Cassettes and blocks for modular panels
- Compatibility: Modular panels Cat. Nos. 0 321 75/76/77
- Connector Type: LC connectors to MTP connector
- Fiber Type: 50/125 m multimode OM3, OM4, OM5; 9/125 m singlemode OS2
- Polarity: Universal
- Performance: Ultra performance

Product Usage Instructions

Presentation
MTP high-density cassettes are compatible with MPO and can be installed in modular panels Cat. Nos. 0 321 75/76/77. Slide-in cassettes can be easily removed by pressing from the front or rear, simplifying installation and maintenance.

Cassette and Block Ranges

Slim Cassettes

- **0 321 68:** Slim pre-terminated cassette with 12 multimode OM3 fibers and 12 LC connectors to MTP connector.
- **0 321 69:** Preterminated slim cassette with 12 multimode OM4 fibers and 12 LC connectors to MTP connector.
- **0 321 70:** Preterminated slim cassette with 12 multimode OS2 fibers and 12 LC connectors to MTP connector.

HVSL12
Preterminated slim cassette with 12 multimode OM4 fibers and 12 LC connectors to MTP connector with universal polarity and ultra performance.

PRESENTATION

- MTP high-density slim cassettes (compatible with MPO)

  For installation in modular panels Cat. Nos. 0 321 75/76/77 and in Zero kit Cat. No. 0 321 03. Each slide-in cassette can be removed individually from the front or rear by simply grasping hold of it. They simplify installation and maintenance.

  Slim cassettes are mounted with their holder (0 321 38). This can take up to 2 cassettes Cat. Nos. 0 321 68/69/70 – 0 322 38 – HVSL12 and up to 2 blanking plates Cat. No. 0 321 39 or 1 cassette + 1 blanking plate.

- MTP high-density cassettes (compatible with MPO)

  For installation in modular panels Cat. Nos. 0 321 75/76/77. Slide-in cassettes can be removed by simply pressing from the front or rear.

 They simplify installation and maintenance.

- Pre-equipped cassettes

  For installation in modular panels Cat. Nos. 0 321 75/76/77. Pre-equipped cassettes with fiber optic blocks fitted with 6 or 12 OM3 pigtails supplied. Slide-in cassettes can be removed by simply pressing from the front or rear.
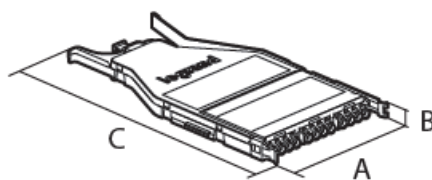
  They simplify installation and maintenance.
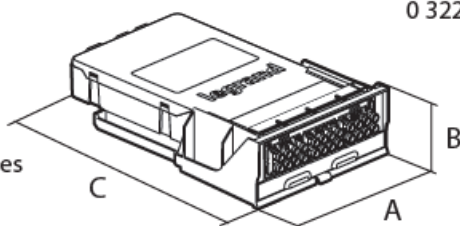
Cassette dimensions (mm)

	A	B	C
0 321 38	110.3	44	161
0 321 68/69/70	100	13.6	194
HVSL12 – 0 322 38			
0321 41			
0321 80/81/82			185
0321 83/84/85			
0321 86/87	110	44	
0321 42/43/44			
0321 45/48/49			200
0321 59/60			
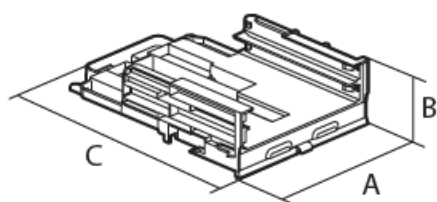
Slim cassette holder
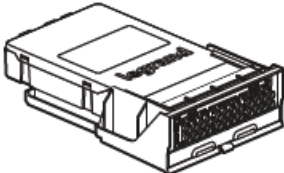0 321 38

Slim cassettes
0 321 68/69/70 - HVSL12
0 322 38
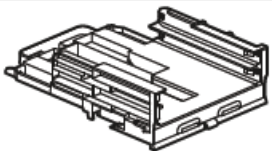
Standard cassettes
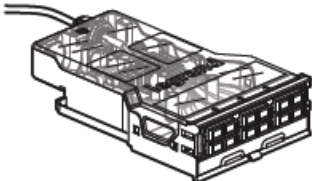
Cassette weight (g)
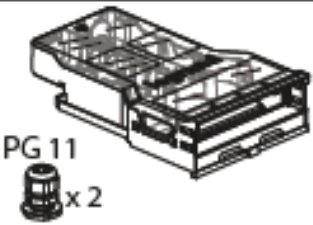
Cat. Nos.	
0 321 38	80
0 321 68/69/70 – HVSL12 – 0 322 38	100
0321 41/42/43/45/48/49/59/60	
0321 80/81/82 0321 83/84/85/86/87	195

CASSETTE AND BLOCK RANGES

	0 321 38	HD holder for slim cassette
	Slim cassettes	
	0 321 68	Slim preterminated cassette (50/125 μm) 12 multimode OM3 FO 12 LC connectors to MTP connector with 12 fibres, universal polarity, Ultra performance
	0 321 69	Preterminated slim cassette (50/125 μm) 12 multimode OM4 FO 12 LC connectors to MTP connector with 12 fibres, universal polarity, Ultra performance
	0 321 70	Preterminated slim cassette (50/125 μm) 12 multimode OS2 FO 12 LC connectors to MTP connector with 12 fibres, universal polarity, Ultra performance
	HVSL12	Preterminated slim cassette (50/125 μm) 12 multimode OM4 FO 12 LC connectors to MTP connector with 12 fibres, universal polarity, Ultra performance
	0 322 38	Preterminated slim cassette (50/125 μm) 12 multimode OM5 FO 12 LC connectors to MTP connector with 12 fibres, universal polarity, Ultra performance
	"Made-to-order"	Other adapter, fibre or polarity type available "made-to-order"
	***0 321 39**	*only for Cat. No. 0 321 38

		MTP cassettes
	● **0 321 42**	Preterminated cassette (50/125 μm) 24 multimode OM4 FO 24 LC connectors to 2 MTP connectors with 12 F, polarity A/C, Ultra performance
	● **0 321 44**	Preterminated cassette (9/125 μm) 24 singlemode OS2 FO 24 LC connectors to 2 MTP connectors with 12 F, polarity A/C, Ultra performance
	● **0 321 43**	Preterminated cassette (50/125 μm) 12 multimode OM4 FO 12 SC connectors to MTP connector with 12 fibres, polarity A/C, Ultra performance
	● **0 321 45**	Preterminated cassette (9/125 μm) 12 singlemode OS2 FO 12 SC connectors to MTP connector with 12 fibres, polarity A/C, Ultra performance
	● **0 321 48**	Preterminated cassette (50/125 μm) 12 multimode OM4 FO 12 LC connectors to 1 MTP connector with 12 F, polarity A/C, Ultra performance
	● **0 321 49**	Preterminated cassette (9/125 μm) 12 singlemode OS2 FO 12 LC connectors to 1 MTP connector with 12 F, polarity A/C, Ultra performance
	● **0 321 59**	Preterminated cassette (50/125 μm) 12 multimode OM4 FO 12 SC connectors to MTP connector with 12 F, universal polarity, Ultra performance
	● **0 321 60**	Preterminated cassette (9/125 μm) 12 singlemode OS2 FO 12 SC connectors to MTP connector with 12 fibres, universal polarity, Ultra performance
	"Made-to-order"	Other adapter, fibre or polarity type available "made-to-order"

		Spliceable cassettes - supplied with pigtails and blocks
	● **0 321 80**	Spliceable FO cassette 0 321 41 + SC block for 6 multimode fibres 0 321 20 + 6 OM3 SC pigtails 1m 0 322 20
	● **0 321 82**	Spliceable FO cassette 0 321 41 + SC block for 12 multimode fibres 0 321 21 + 12 OM3 SC pigtails 1m 0 322 20
	● **0 321 84**	Spliceable FO cassette 0 321 41 + SC block for 6 singlemode fibres 0 321 10 + 6 OS2 SC pigtails 1m 0 322 41
	● **0 321 86**	Spliceable FO cassette 0 321 41 + SC block for 12 singlemode fibres 0 321 11 + 12 OS2 SC pigtails 1m 0 322 41
	● **0 321 81**	Spliceable FO cassette 0 321 41 + LC block for 6 multimode fibres 0 321 23 + 6 OM3 LC pigtails 1m 0 322 21
	● **0 321 83**	Spliceable FO cassette 0 321 41 + LC block for 12 multimode fibres 0 321 24 + 12 OM3 LC pigtails 1m 0 322 21
	● **0 321 85**	Spliceable FO cassette 0 321 41 + LC block for 6 singlemode fibres 0 321 13 + 6 OS2 LC pigtails 1m 0 322 43
	● **0 321 87**	Spliceable FO cassette 0 321 41 + LC block for 12 singlemode fibres 0 321 14 + 12 OS2 LC pigtails 1m 0 322 43

PG 11 x 2	**0 321 41**	Splice cassette
	● **0 321 11**	SC duplex HD 12 singlemode fibres
	● **0 321 21**	SC duplex HD 12 multimode fibres
	● **0 321 10**	SC duplex 6 singlemode fibres
	● **0 321 12**	SC apc duplex 6 singlemode fibres
	● **0 321 20**	SC duplex 6 multimode fibres
	● **0 321 13**	LC duplex 6 singlemode fibres
	● **0 321 23**	LC duplex 6 multimode fibres
	● **0 321 36**	LC duplex 6 multimode fibres (aqua)
	● **0 321 14**	LC duplex 12 singlemode fibres
	● **0 321 16**	LC apc duplex 12 singlemode fibres
	● **0 321 24**	LC duplex 12 multimode fibres
	● **0 321 37**	LC duplex 12 multimode fibres (aqua)
	● **0 322 58**	LC duplex 12 multimode fibres (lime)
	● **HVBL12**	LC duplex 12 multimode fibres (violet)
	● **0 321 15**	LC duplex HD 24 singlemode fibres
	● **0 321 25**	LC duplex HD 24 multimode fibres
	● **0 322 59**	LC duplex HD 24 multimode fibres (lime)
	● **HVBL24**	LC duplex HD 24 multimode fibres (violet)
	● **0 321 17**	ST for 6 singlemode fibres
	● **0 321 27**	ST for 6 multimode fibres
	● **0 321 33**	4 MTP adapter, pass-through, singlemode
	● **0 321 34**	4 MTP adapter, pass-through, multimode
	"On demand"	Other colors

	0 337 55	Copper cassette to be equipped with up to 6 RJ45 Cat. 5e, Cat. 6 and Cat. 6A connectors
	0 337 95	High Density copper cassette to be equipped with up to 12 RJ45 Cat. 5e, Cat. 6 and Cat. 6A connectors

	0 337 53
	0 337 63
	0 337 73
		UTP Cat 5e
		        Cat 6
		        Cat 6A

	0 337 54 **0 337 64**	FTP Cat 5e Cat 6
	0 337 65 **0 337 75**	STP Cat 6 Cat 6A
	*0 337 85	STP Cat 8 *only for Cat. No. 0 337 55

CASSETTE TECHNICAL CHARACTERISTICS

- **MTP high density slim cassette (compatible with MPO)**

  Singlemode and multimode slim cassettes can be combined in the same holder

  Two 12 FO cassettes per cassette holder for more flexibility.

  Ultra performance cassette, low insertion loss < 0.5 dB. Factory tested and detailed on the test report provided on the cassette.

- **Universal polarity**

  MTP high density cassette (compatible with MPO)

  Already equipped with preterminated fibres, directly connectible to female MTP connector with 12 fibres (compatible with MPO).

  Ultra performance cassette, low insertion loss < 0.5 dB. Factory tested and detailed on the test report provided on the cassette.

- **A/C polarity**

  Fibre optic cassette to be spliced

  Connectible cassette, supplied with removable pigtail holder, with coiling area. Sold with 2 PG11s

  Takes any modular fibre optic block and MTP high density adaptor
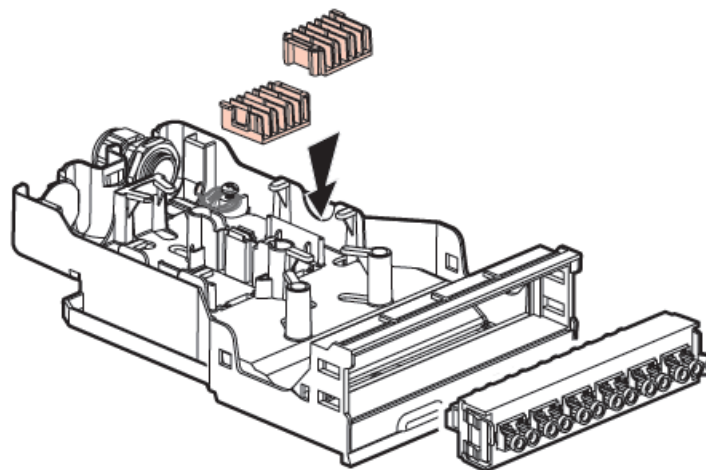
Material characteristics
Material: polycarbonate IP40

Fitting a cassette

Removing a cassette from the front

Connecting a pre-terminated cassette

copper cassette
0 337 55

✱ Compatible with female MTP connector only

CONNECTORS

The Legrand core, ultra and quantum connectivity performances are far superior than standard. They provide the following benefits for the user :

- Wider range of applications
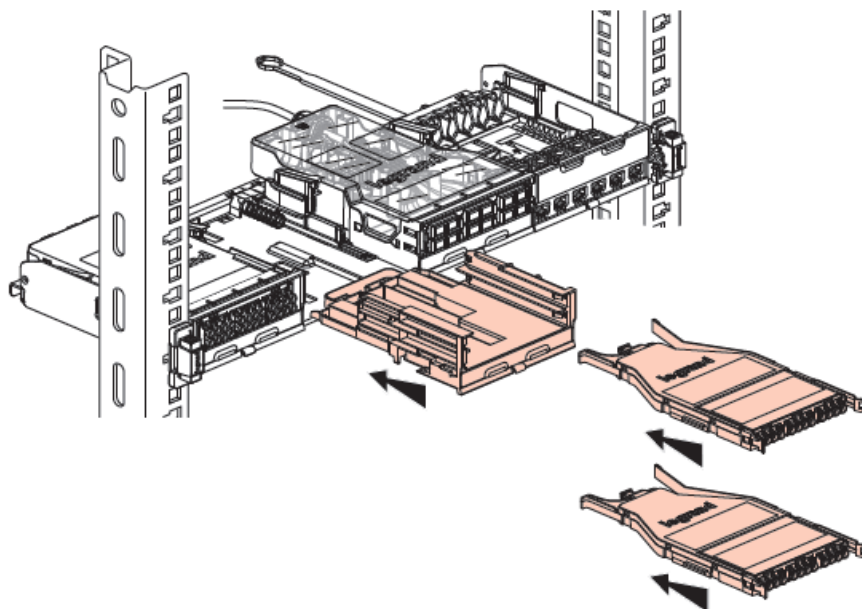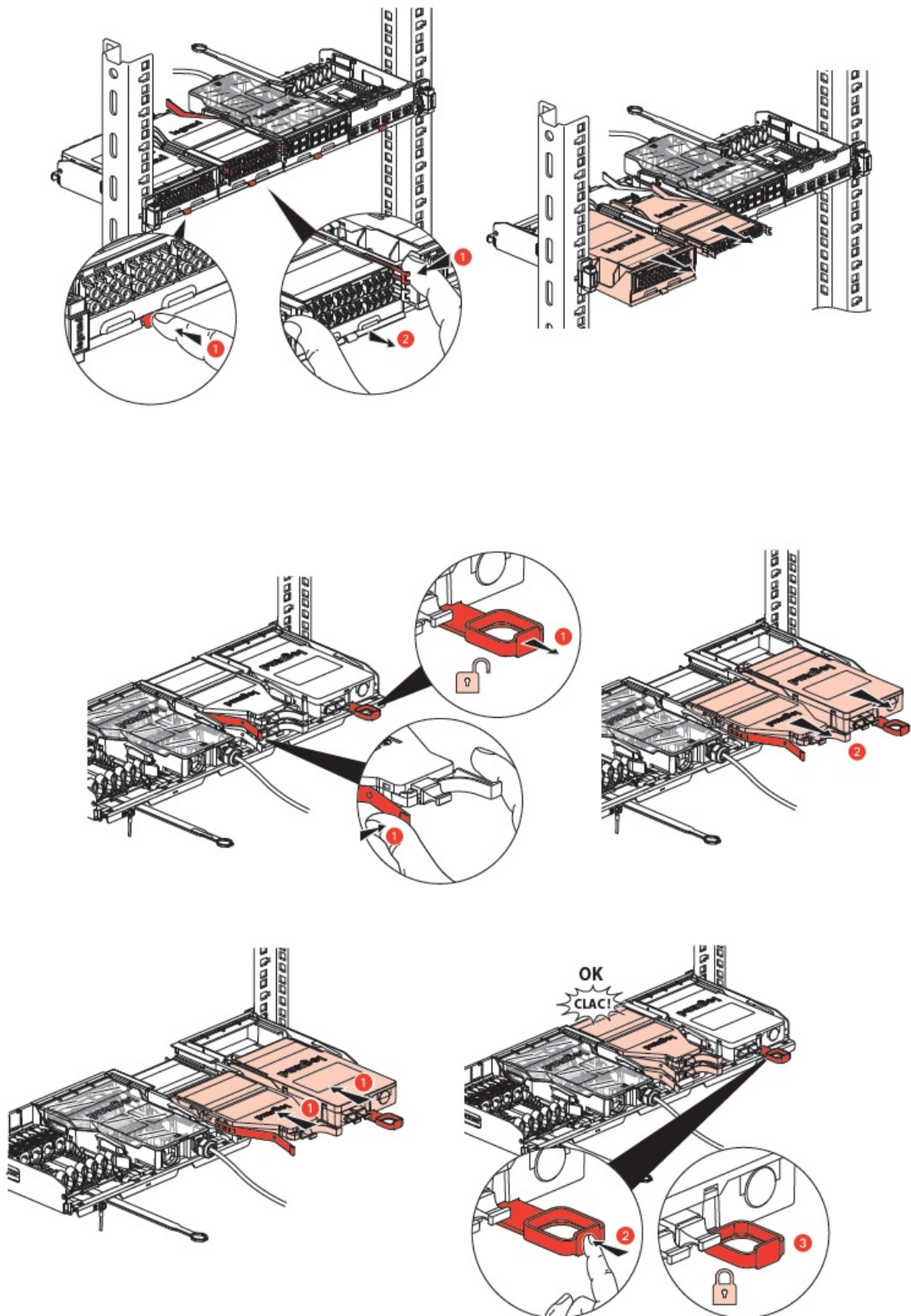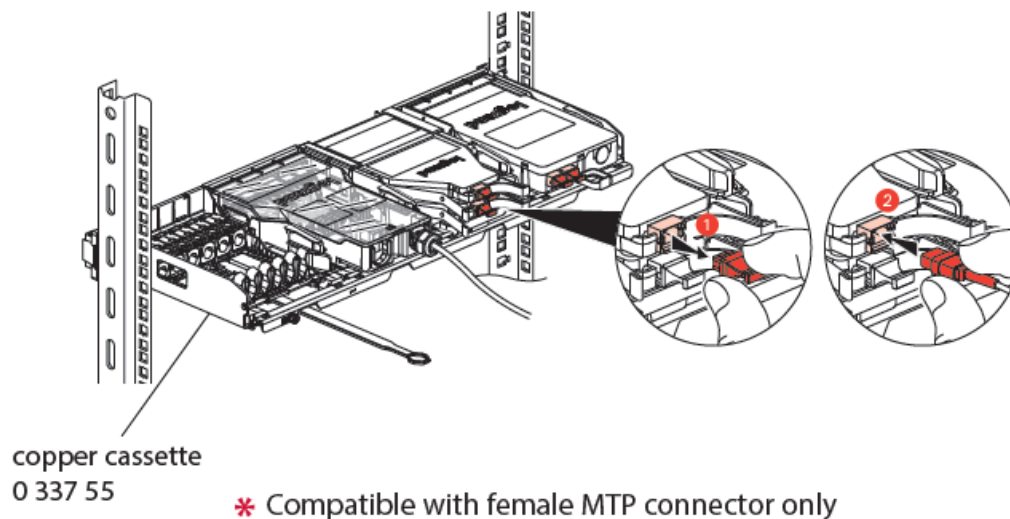- More flexibility in the design
- Energy saving on the active (transceivers)
- All connectors have a durability of 500 cycles (IEC 61300-2-2)
- MPO/MTP connectors comply to IEC 61754-7-1
- LC connectors comply to IEC 61754-20
- SC connectors comply to IEC 61754-4
- ST connectors comply to IEC 61754-2

Optical performance

MTP® connectors

	Multimode Ultra Performance*	Singlemode Ultra Performance*
IL/Master	0.1 dB typical (all fibres) 0.35 dB maximum (single fibre) 2.3	0.1 dB typical (all fibres) 0.35 dB maximum (single fibre) 1.4
IL Max/Random*	0.35 dB (single fibre)	0.35 dB (single fibre)
Optical return loss 5	> 20 dB	> 60 dB (8° angle- polished)

1. As tested in accordance with ANSI/TIA-455-171 Method D3 / IEC 61300-3-4
2. As tested in accordance with ANSI/TIA-455-171 Method D1 / IEC 61300-3-4
3. As tested on 50µm fibres at a wavelength of 850 nm in accordance with IEC 61280-4-1
4. Complies with IEC 61755-3-31/GRADE B

5. As tested in accordance with IEC 61300-3-6 and ANSI/TIA-455-107A

Performance is guaranteed only with other components of the same Legrand range (Core, Ultra and Quantum). Mixing ranges or use of components of other brand may lead to a different performance of the system. The uncertainty value for field measurement with LSPM testing using a reference cord defined in ISO/IEC 14763-3 applies to field testing with proposed Legrand testing cords. Refer to the Fiber Optic Testing Guide for Legrand Solutions.

LC, SC, LC APC, SC APC connectors

Optical performance	Singlemode Ultra Performance	Multimode Ultra Performance
IL Max/Master *	0.15 dB	0.15 dB
IL Max/Random ** ***	0.25 dB	0.2 dB
Typ. IL/Master *	0.12 dB	0.08 dB
Typ. IL/Random ** ***	0.12 dB	0.10 dB
Return loss (UPC/APC)	> 55/65 dB	> 25 dB

IEC 61300-3-4

IEC 61300-3-34

- Performance is guaranteed only with other components of the same Legrand range (Core, Ultra and Quantum). Mixing ranges or use of components of another brand may lead to a different performance of the system. The uncertainty value for field measurement with LSPM testing using a reference cord defined in ISO/IEC 14763-3 applies to field testing with proposed Legrand testing cords. Refer to the Fiber Optic Testing Guide for Legrand Solutions.
- Storage and operating temperature: -10°C to +60°C

Production quality control

For MTP :
Optical performance: 100% factory tested
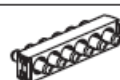3D endface geometry (interferometry): 100% factory products controlled For LC, SC, LC APC, SC APC :
Optical performance: 100% factory tested.
3D endface Geometry (interferometry): sampling quality control.

FIBRE OPTIC BLOCKS FOR SPLICEABLE CASSETTE

Fibre optic blocks clip directly onto spliceable cassette Cat. No. 0 321 41 and also onto fibre optic drawer Cat. Nos. 0 321 00/01.

	🔵	0 321 11	SC duplex HD 12 singlemode fibres
	⬤	0 321 21	SC duplex HD 12 multimode fibres
	🔵	0 321 10	SC duplex 6 singlemode fibres
	🟢	0 321 12	SC apc duplex 6 singlemode fibres
	⬤	0 321 20	SC duplex 6 multimode fibres
	🔵	0 321 13	LC duplex 6 singlemode fibres
	⬤	0 321 23	LC duplex 6 multimode fibres
	🟢	0 321 36	LC duplex 6 multimode fibres (aqua)
	🔵	0 321 14	LC duplex 12 singlemode fibres
	🟢	0 321 16	LC apc duplex 12 singlemode fibres
	⬤	0 321 24	LC duplex 12 multimode fibres
	🟢	0 321 37	LC duplex 12 multimode fibres (aqua)
	🟡	0 322 58	LC duplex 12 multimode fibres (lime)
	🟣	HVBL12	LC duplex 12 multimode fibres (violet)
	🔵	0 321 15	LC duplex HD 24 singlemode fibres
	⬤	0 321 25	LC duplex HD 24 multimode fibres
	🟡	0 322 59	LC duplex HD 24 multimode fibres (lime)
	🟣	HVBL24	LC duplex HD 24 multimode fibres (violet)
	🔴	0 321 17	ST for 6 singlemode fibres
	⚫	0 321 27	ST for 6 multimode fibres
	🟢	0 321 33	4 MTP adapter, pass-through, singlemode
	⬤	0 321 34	4 MTP adapter, pass-through, multimode
	⬤	0 321 18	8 MTP adapter, pass-through, multimode
	🟢	0 321 19	8 MTP adapter, pass-through, singlemode

Block dimensions (mm)
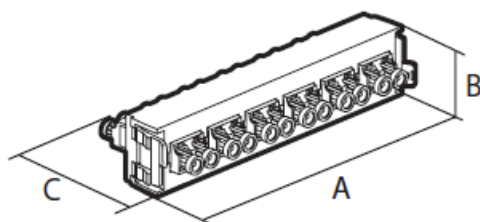
Cat. Nos.	A	B	C
0 321 10/11/12/20/21			33
0 321 13/14/15/16/23/24/25/36/37 HVBL12/24			39
0 321 17/27	109	23	
0 321 18/19/33/34			45

Approximate block weight (g)
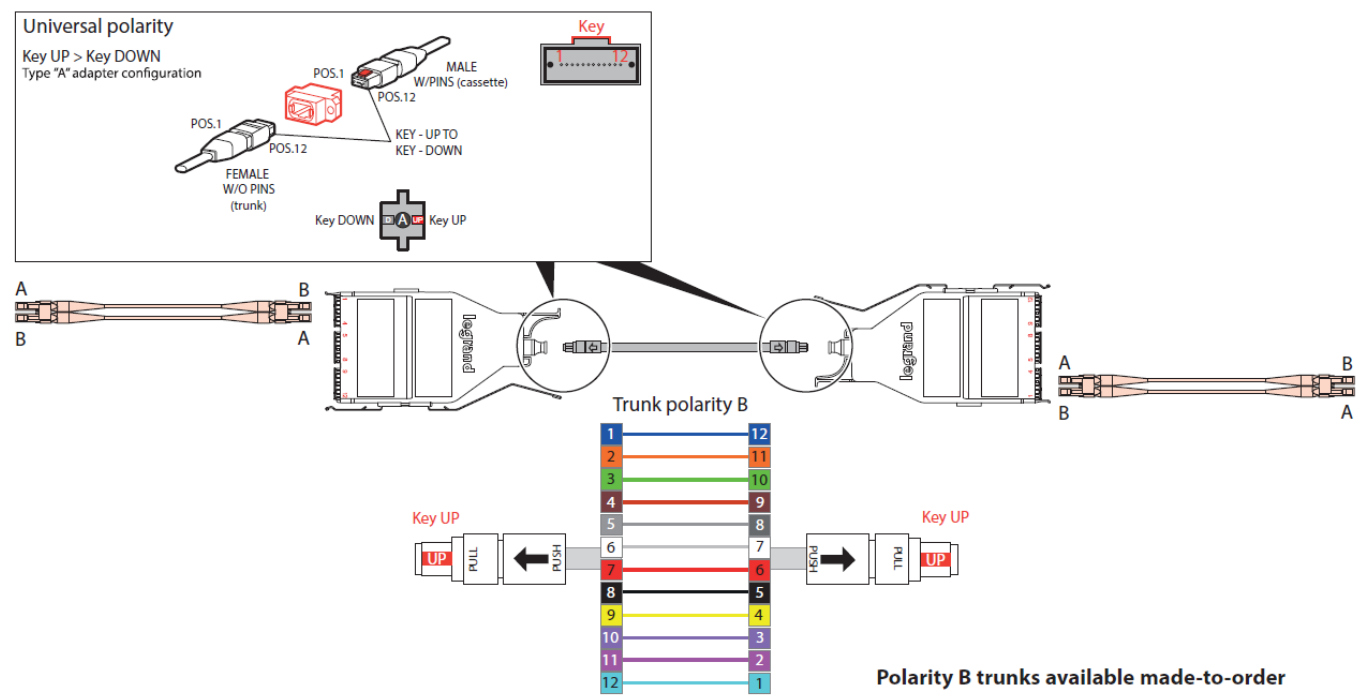
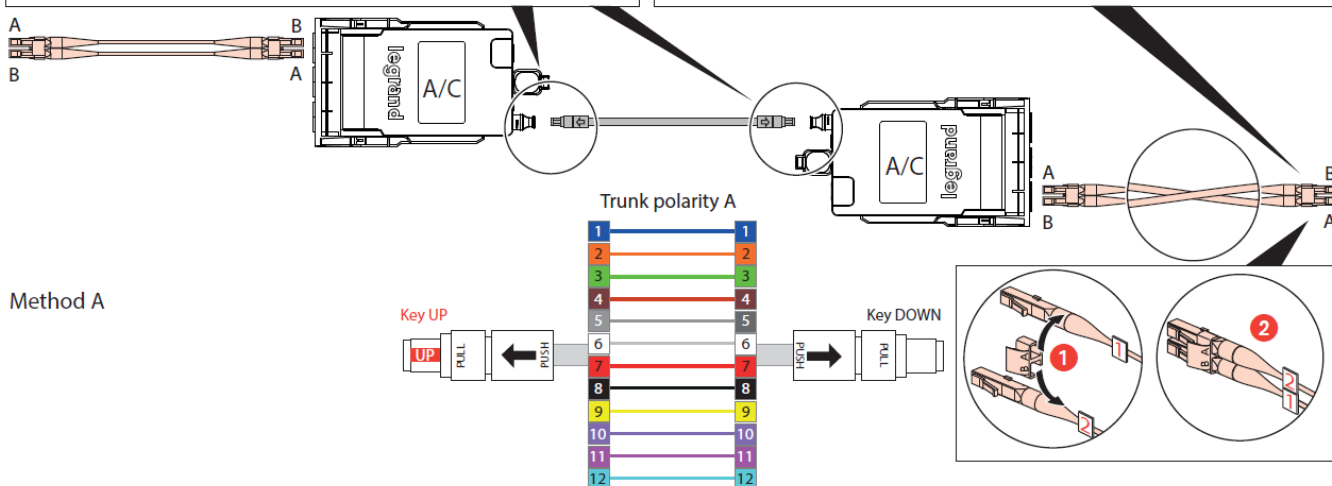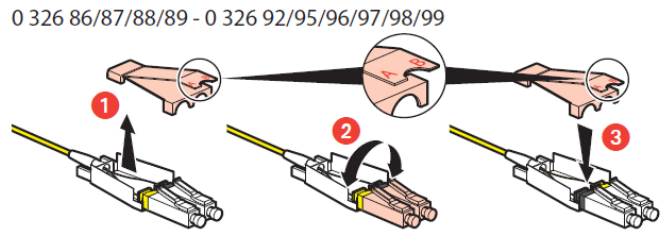| Cat. Nos.	
0 321 10/11/12/13/14/15/16/17/20/21/23/24/25/27/36/37- HVBL12/24	50
0 321 18/19/33/34	42

MADE-TO-ORDER PRODUCTS

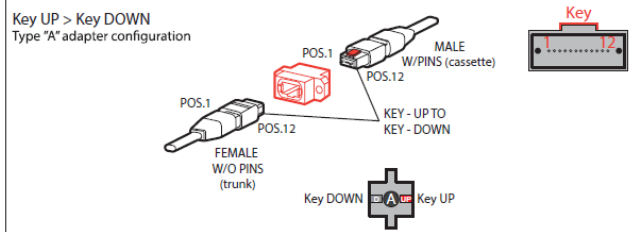Please contact your local Legrand sales representative

POLARITY
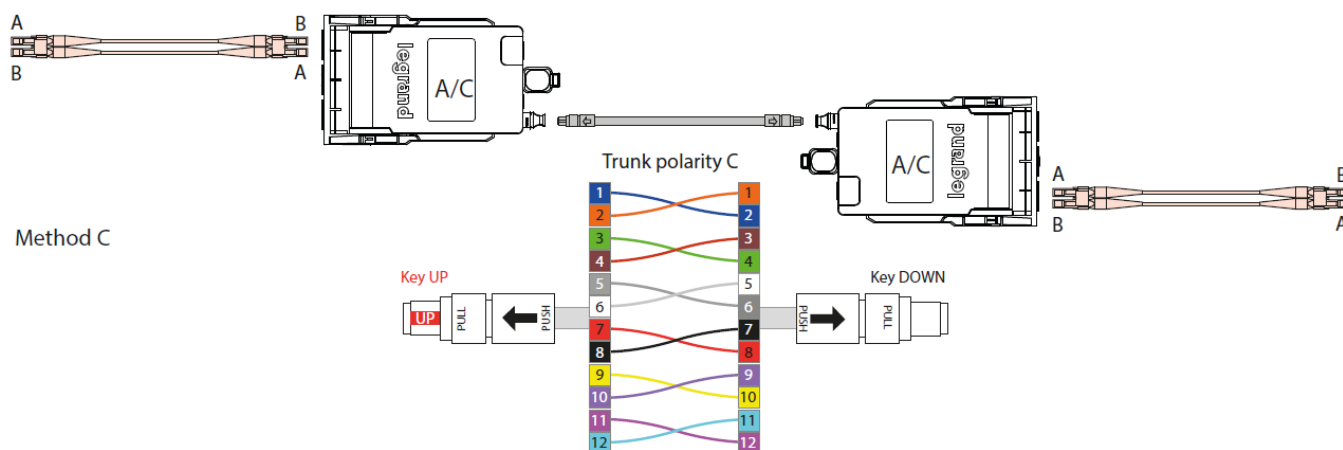
Universal polarity: Cat. Nos. 0 321 59/60-0 321 68/69/70 – HVSL12
Identical cassettes. Cords A to B at both ends – trunk type B,

Trunk polarity B

Polarity B trunks available made-to-order

Method A/C: Cat. Nos. 0 321 42/43/44/45 – 0 321 48/49
Identical cassettes. Cords A to B at one end and cords A to A at the other end – trunk type A

Key

POS.1
POS.12
MALE
W/PINS (cassette)

POS.1
POS.12
FEMALE
W/O PINS
(trunk)

KEY - UP TO
KEY - DOWN

Key DOWN A UP Key UP

A
B

B
A

A/C

A/C

Method A

Trunk polarity A

1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12

Key UP
UP PULL PUSH

Key DOWN
PUSH PULL

A
B

B
A

Method A/C: Cat. Nos. 0 321 42/43/44/45 – 0 321 48/49
Identical cassettes. Cords A to B at both ends – trunk type C.

A
B

B
A

A/C

A/C

Method C

Trunk polarity C

1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12

Key UP
UP PULL PUSH

Key DOWN
PUSH PULL

A
B

B
A

Method B, single mode/multimode made-to-order product (9 001 26/36)
Different cassettes (B1 and B2). Cords A to B at both ends – trunk type B.
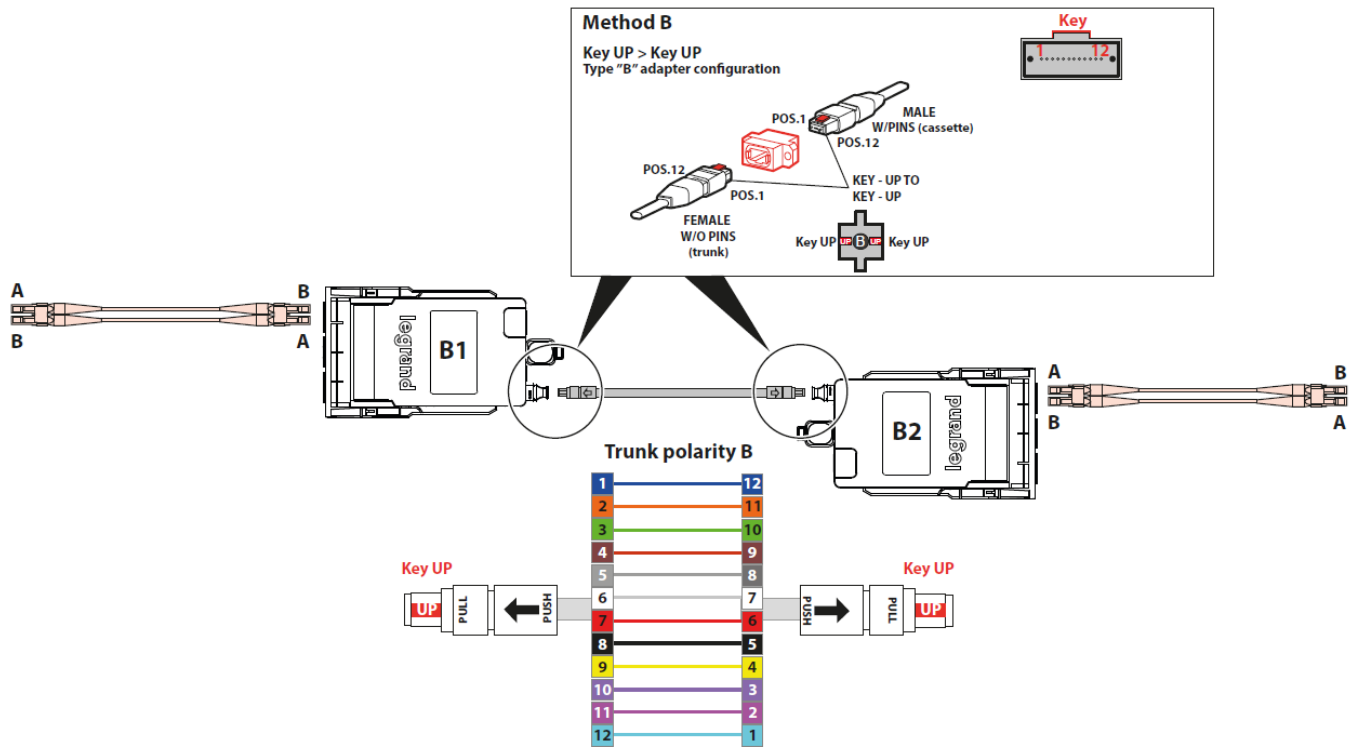
For singlemode cassettes with polarity B (key-up/key-up feedthrough), the male MTP connector for the cassette is up-angled in accordance with IEC 61754-1-12 and therefore only compatible with standard polarity B female MTP (or MPO) trunks (down-angled). Polarity B trunks available made-to-order
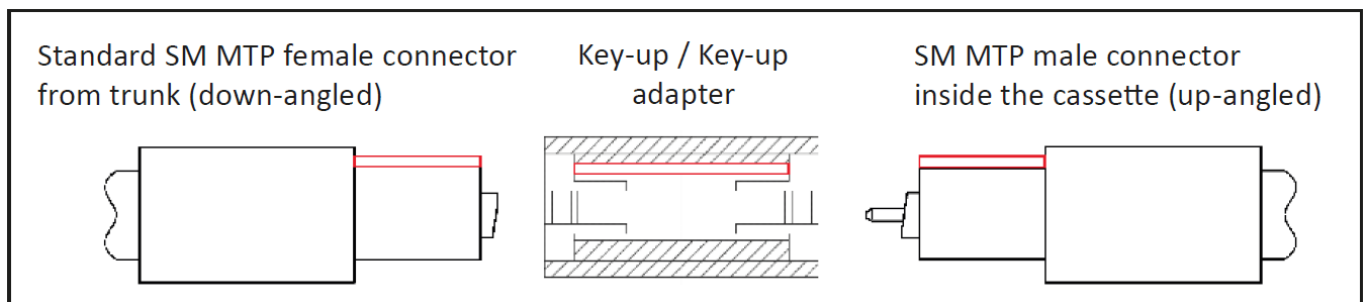
Technical data sheet: S000110251EN/04 Updated: 21/08/2024 Created: 07/01/2020

FAQ

- **Q: Can the cassettes be easily removed for maintenance?**

  A: Yes, the slide-in cassettes can be removed by simply pressing from the front or rear, facilitating maintenance tasks.
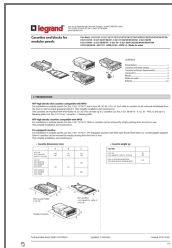
- **Q: What is the compatibility of the cassettes?**

  A: The cassettes are compatible with modular panels Cat—nos. 0 321 75/76/77, offering flexibility in installations.

- **Q: Are custom options available?**

  A: Yes, custom options are available for adapters, fibers, or polarity types, providing tailored solutions for specific requirements.

Documents / Resources

legrand 0 321 Series Cassettes and Blocks for Modular Panels [pdf] Instruction Manual
0 321 Series Cassettes and Blocks for Modular Panels, 0 321 Series, Cassettes and Blocks for Modular Panels, Blocks for Modular Panels, Modular Panels, Panels

References

- **User Manual**