

1U Patchpanel for Up To 4 MPO Modules

High-density solution to manage fiber termination, connections, and patching for all applications

SCOPE

1U Fixed Rack Mount Enclosure provides a flexible and modular system for easy field termination of connectors, splicing, or installation of pre-terminated plug-n-play solutions. And they're designed to maximize the density while minimizing rack space in a frame or cabinet setting.

These economical enclosures are ideal for data centers and enterprise applications. You can assemble MPO cassette, MPO adapter panel and LC adapter panel.

Features:

- ◆ Can install 4pcs MPO cassettes, and manage 96 cores max.
- ◆ Produced with high-quality cold-rolled steel sheet, the main body's depth is 1.5mm.
- ◆ No fur, no bubble, no screw to fasten, snap-in top cover can be opened without any tools.
- ◆ Removable cable management, look elegant and use conveniently, Standard size, light and reasonable structure.

Application:

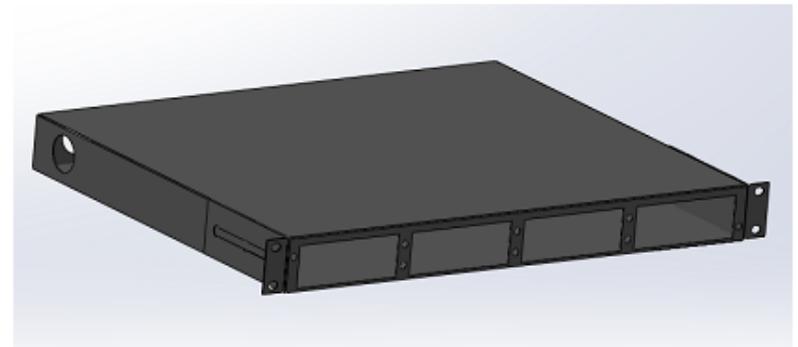
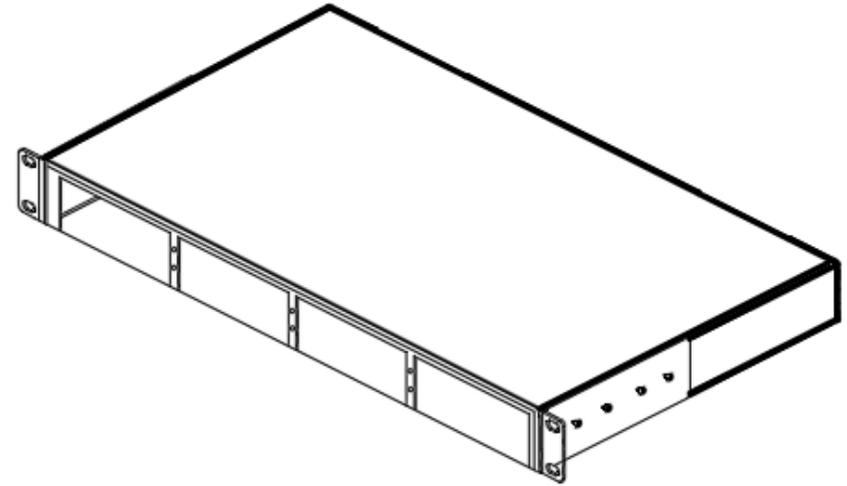
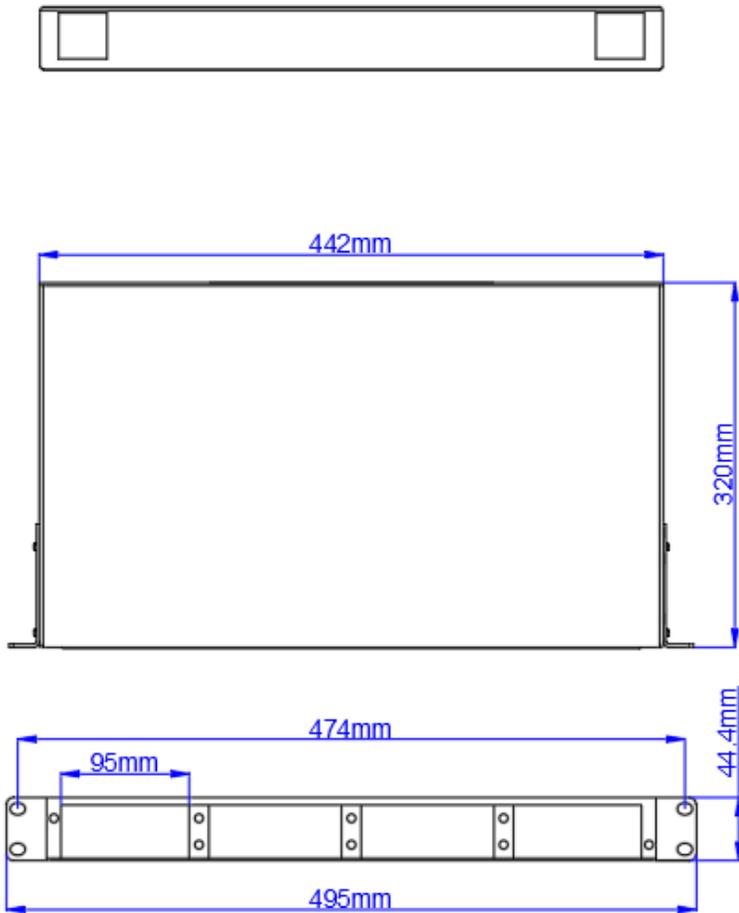
- Telecommunications subscriber loop
- Data&Communication system.
- LAN/WAN
- CATV



MPO Patch Panel+Cassette

Dimensional Drawing

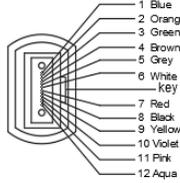
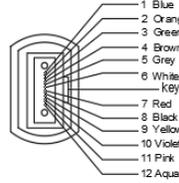
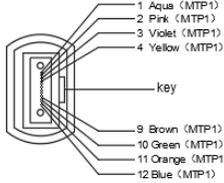
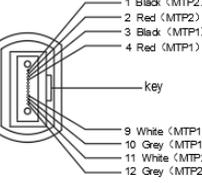
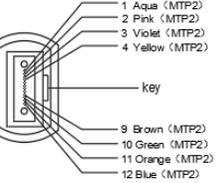
1U Rack
Mount box



MPO Patch Panel+Cassette

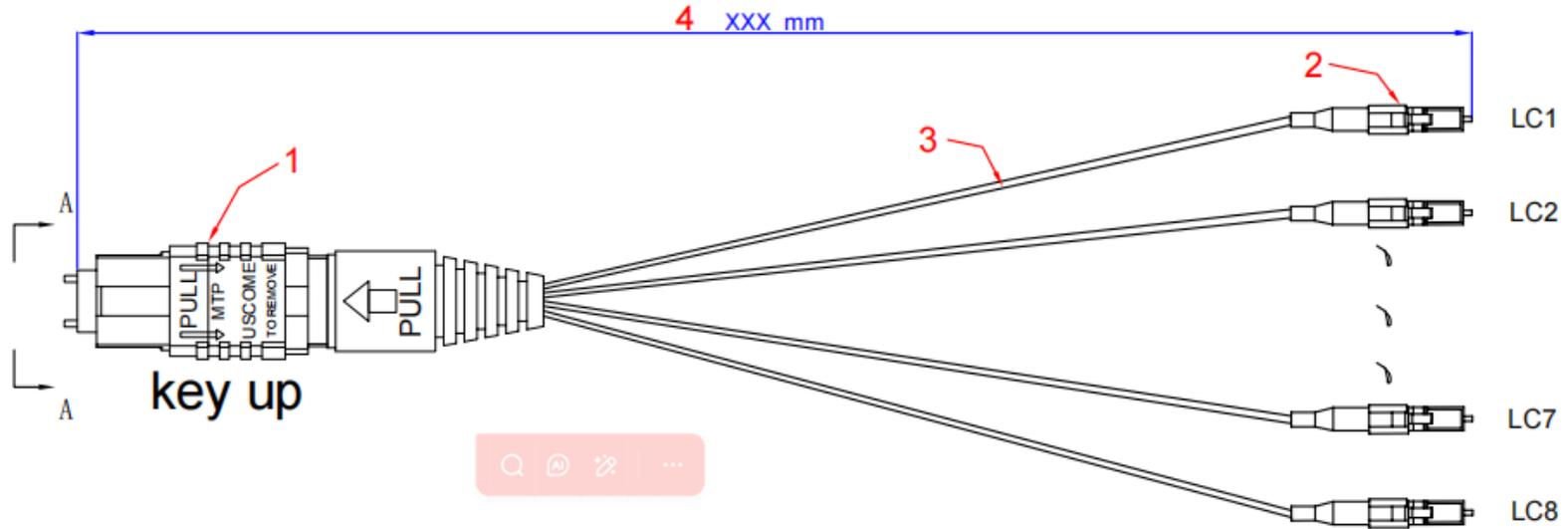
<p>MPO cassettes (1)</p>		<p>A</p>	
<p>MPO cassettes (2)</p>		<p>TypeA</p>	<p>MTP1 MTP2 MTP3 MTP4 MTP5</p>

MPO Patch Panel+Cassette

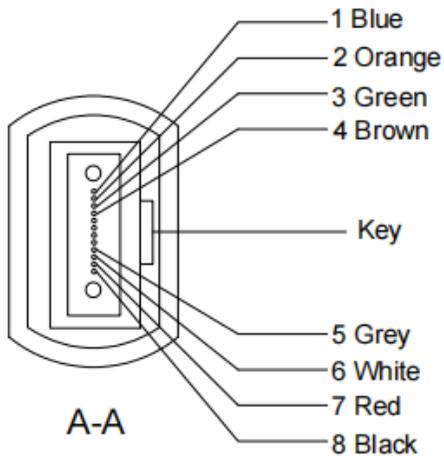
		<p>TypeB</p>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>MTP1</p> </div> <div style="text-align: center;">  <p>MTP2</p> </div> <div style="text-align: center;">  <p>MTP3</p> </div> <div style="text-align: center;">  <p>MTP4</p> </div> <div style="text-align: center;">  <p>MTP5</p> </div> </div>
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MPO Patch Panel+Cassette

Type: MTP/UPC/M-LC/UPC 8Fibers OM4 0.2M



①



Specifaition:
 1.MTP/UPC/M Connector Aqua
 2.LC/UPC Connector MM 0.9mm
 3.8colors 0.9mm Hytel Tube
 +OM4 Optical Fiber
 4.Length:xxx mm

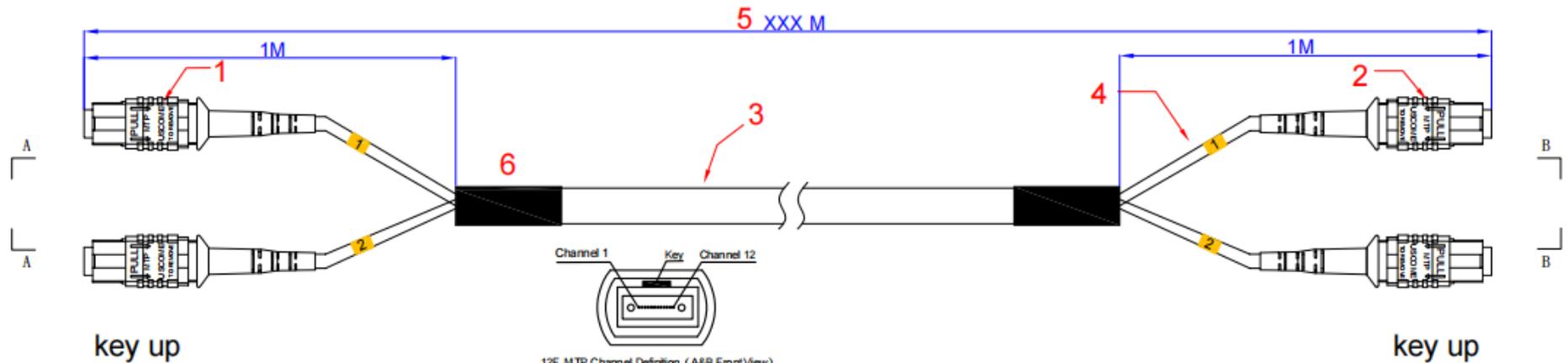
Performation:
 1.Insertion loss:MTP, Typical \leq 0.20dB, Max \leq 0.35dB;
 LC, Typical \leq 0.20dB, Max \leq 0.30dB
 2.Return loss:MPO \geq 20dB; LC \geq 30dB
 3.Male:With Pins,Female:Without Pins
 4.Tensile Strength: $<$ 0.3(Max 66N)
 5.Opearting Temperature: -20°C to $+70^{\circ}\text{C}$

Length Tolerance

Tolerance	L \leq 0.5M	0.5M $<$ L \leq 5M	5M $<$ L \leq 10M	10M $<$ L \leq 30M	30M $<$ L \leq 100M	L $>$ 100M
MM	+50/-0	+100/-0	+150/-0	+250/-0	+1%/L/-0	+1.5%/L/-0

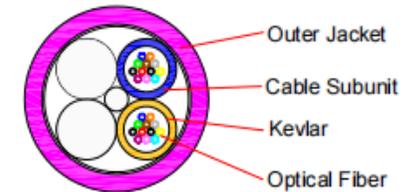
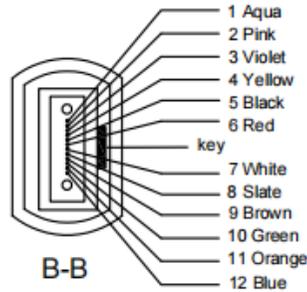
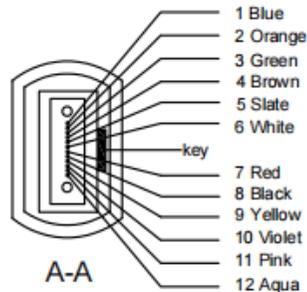
MPO Patch Panel+Cassette

Type: MTP/UPC/F-MTP/UPC/F 2*12Fibers OM4 LSZH Type B



Fiber Chart

Fiber Colors	Side A	SideB
Blue	Channel 1	Channel 12
Orange	Channel 2	Channel 11
Green	Channel 3	Channel 10
Brown	Channel 4	Channel 9
Slate	Channel 5	Channel 8
White	Channel 6	Channel 7
Red	Channel 7	Channel 6
Black	Channel 8	Channel 5
Yellow	Channel 9	Channel 4
Violet	Channel 10	Channel 3
Pink	Channel 11	Channel 2
Aqua	Channel 12	Channel 1



3.Cable Parameter

NO.	Items	Detail	Description
1	Optical Fiber	Fiber Count	24
		Diameter	0.25±0.015mm
2	Strength Member	Material	kevlar
3	Cable Subunit	Material	LSZH
		Diameter	1.5±0.1mm
4	Outer Jacket	Material	LSZH
		Diameter	6.0±0.5mm
		Color	Magenta

Specification:

- 1.MTP/UPC/F MM Connector
- 2.MTP/UPC/F MM Connector
- 3.24F 250um OM4 Distribution Cable LSZH
- 4.3.0mm Tube LSZH
- 5.Length:XXX M
- 6.Heat Shrinkable Tube

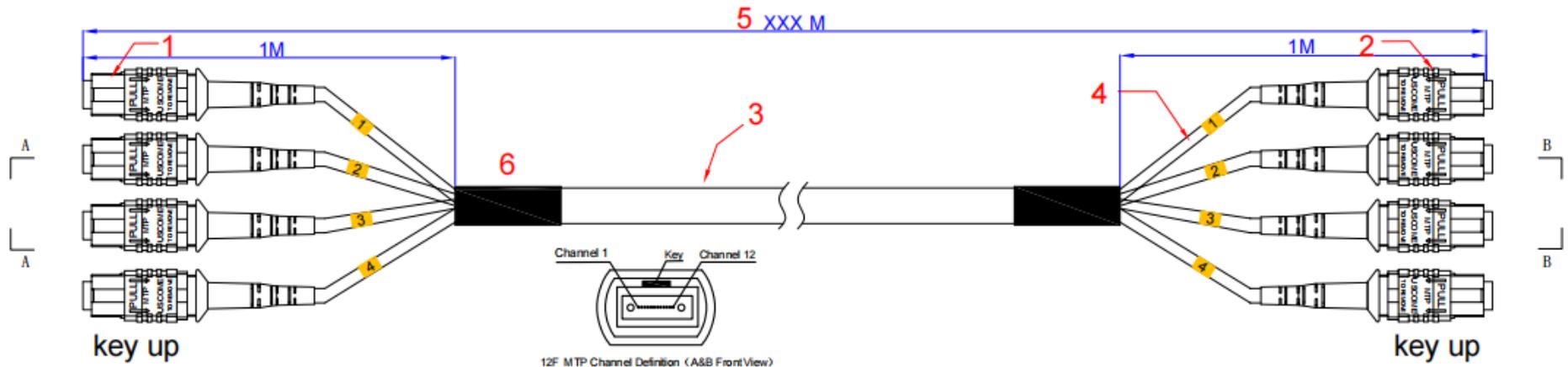
Peromation:

- 1.Insertion loss:Typical≤0.20dB,Max≤0.35dB
- 2.Return loss:SM,UPC≥50dB,APC≥60dB MM,UPC≥20dB
- 3.Male:With Pins,Female:Without Pins
- 4.Tensile Strength:<0.3(Max 66N)
- 5.Opearting Temperature:-20℃ to +75℃

Length Tolerance

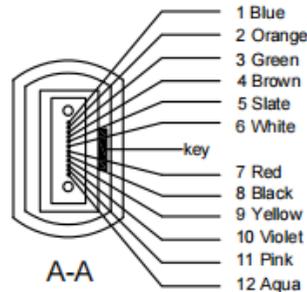
Tolerance	L≤0.5M	0.5M<L≤5M	5M<L≤10M	10M<L≤30M	30M<L≤100M	L>100M
MM	+50/-0	+100/-0	+150/-0	+250/-0	+1%L/-0	+1.5%L/-0

Type: MTP/UPC/F-MTP/UPC/F 4*12Fibers OM4 LSZH Type B



Fiber Chart

Fiber Colors	Side A	SideB
Blue	Channel 1	Channel 12
Orange	Channel 2	Channel 11
Green	Channel 3	Channel 10
Brown	Channel 4	Channel 9
Slate	Channel 5	Channel 8
White	Channel 6	Channel 7
Red	Channel 7	Channel 6
Black	Channel 8	Channel 5
Yellow	Channel 9	Channel 4
Violet	Channel 10	Channel 3
Pink	Channel 11	Channel 2
Aqua	Channel 12	Channel 1

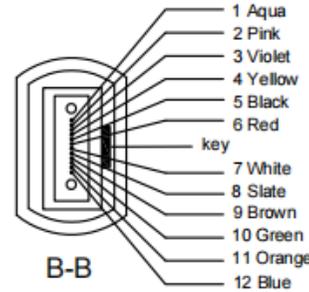


Specification:

- 1.MTP/UPC/F MM Connector
- 2.MTP/UPC/F MM Connector
- 3.48F 250um OM4 Distribution Cable LSZH
- 4.3.0mm Tube LSZH
- 5.Length:XXX M
- 6.Heat Shrinkable Tube

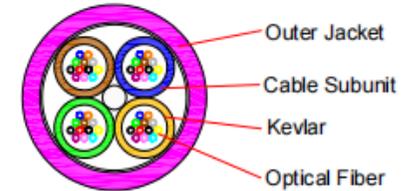
Length Tolerance

Tolerance	L≤0.5M	0.5M<L≤5M	5M<L≤10M	10M<L≤30M	30M<L≤100M	L>100M
MM	+50/-0	+100/-0	+150/-0	+250/-0	+1%/L/-0	+1.5%/L/-0



Perfomation:

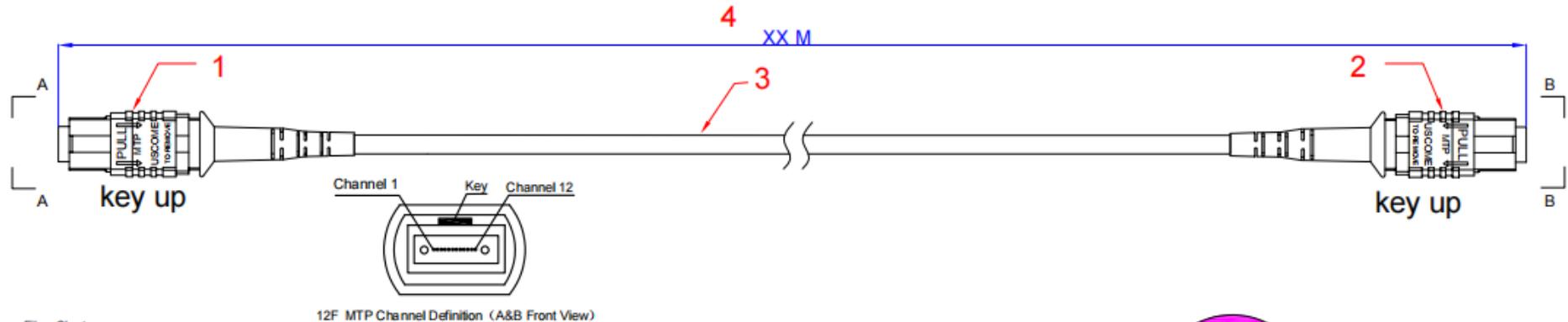
- 1.Insertion loss:Typical≤0.20dB,Max≤0.35dB
- 2.Return loss:SM,UPC≥50dB,APC≥60dB
MM,UPC≥20dB
- 3.Male:With Pins,Female:Without Pins
- 4.Tensile Strength:<0.3(Max 66N)
- 5.Opearting Temperature:-20℃ to +75℃



3.Cable Parameter

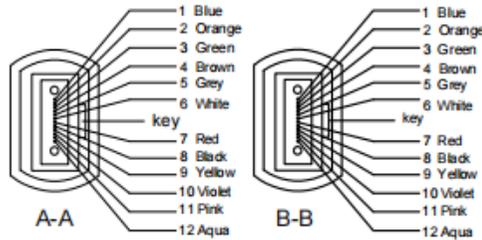
NO.	Items	Detail	Description
1	Optical Fiber	Fiber Count	48
		Diameter	0.25±0.015mm
2	Strength Member	Material	kevlar
3	Cable Subunit	Material	LSZH
		Diameter	1.5±0.1mm
4	Outer Jacket	Material	LSZH
		Diameter	6.0±0.5mm
		Color	Magenta

Type: MTP/UPC/F-MTP/UPC/F 12Fibers OM4 LSZH Type A



Fiber Chart

Fiber Colors	Side A	SideB
Blue	Channel 1	Channel 1
Orange	Channel 2	Channel 2
Green	Channel 3	Channel 3
Brown	Channel 4	Channel 4
Slate	Channel 5	Channel 5
White	Channel 6	Channel 6
Red	Channel 7	Channel 7
Black	Channel 8	Channel 8
Yellow	Channel 9	Channel 9
Violet	Channel 10	Channel 10
Pink	Channel 11	Channel 11
Aqua	Channel 12	Channel 12



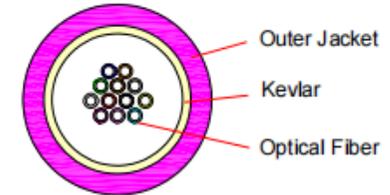
12F MTP Channel Definition (A&B Front View)

Specification:

- 1.MTP/UPC/F Connector
- 2.MTP/UPC/F Connector
- 3.12F OM4 3.0mm Mini Cable LSZH
- 4.Length:XX M

Perfomation:

- 1.Insertion loss:Typical≤0.20dB,Max≤0.35dB
- 2.Return loss:SM,UPC≥50dB,APC≥60dB
MM,UPC≥20dB
- 3.Male:With Pins,Female:Without Pins
- 4.Tensile Strength:<0.3(Max 66N)
- 5.Opearting Temperature:-20℃ to +75℃



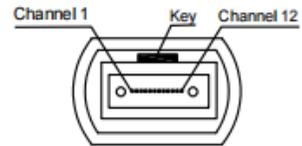
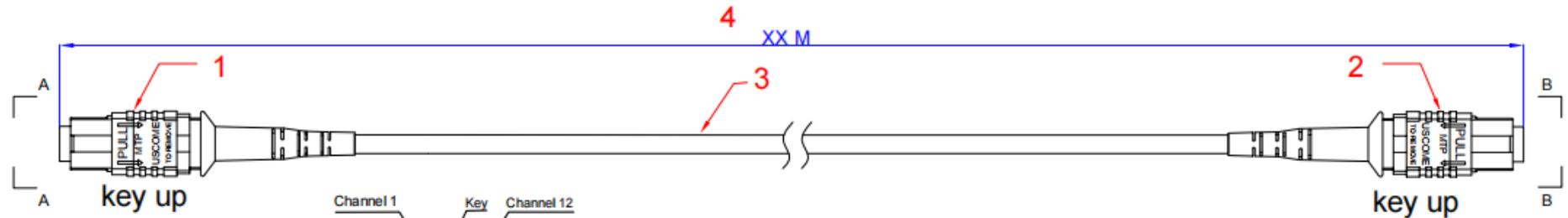
3.Cable Parameter

NO.	Items	Detail	Description
1	Optical Fiber	Fiber Count	12
		Diameter	0.25±0.015mm
2	Strength member	Material	Kevlar
3	Outer Jacket	Material	LSZH
		Diameter	3.0±0.2mm
		Color	Magenta

Length Tolerance

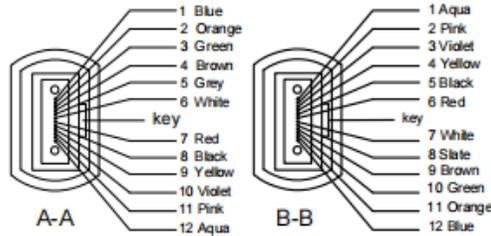
Tolerance	L≤0.5M	0.5M<L≤5M	5M<L≤10M	10M<L≤30M	30M<L≤100M	L>100M
MM	+50/-0	+100/-0	+150/-0	+250/-0	+1%L/-0	+1.5%L/-0

Type: MTP/UPC/F-MTP/UPC/F 12Fibers OM4 LSZH Type B



Fiber Chart

Fiber Colors	Side A	SideB
Blue	Channel 1	Channel 12
Orange	Channel 2	Channel 11
Green	Channel 3	Channel 10
Brown	Channel 4	Channel 9
Slate	Channel 5	Channel 8
White	Channel 6	Channel 7
Red	Channel 7	Channel 6
Black	Channel 8	Channel 5
Yellow	Channel 9	Channel 4
Violet	Channel 10	Channel 3
Pink	Channel 11	Channel 2
Aqua	Channel 12	Channel 1

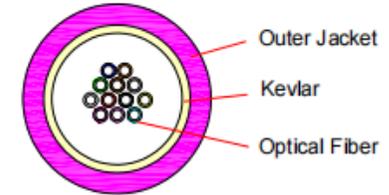


Specification:

- 1.MTP/UPC/F Connector
- 2.MTP/UPC/F Connector
- 3.12F OM4 3.0mm Mini Cable LSZH
- 4.Length:XX M

Perfomation:

- 1.Insertion loss:Typical≤0.20dB,Max≤0.35dB
- 2.Return loss:SM,UPC≥50dB,APC≥60dB
MM,UPC≥20dB
- 3.Male:With Pins,Female:Without Pins
- 4.Tensile Strength:<0.3(Max 66N)
- 5.Opearting Temperature:-20℃ to +75℃



3.Cable Parameter

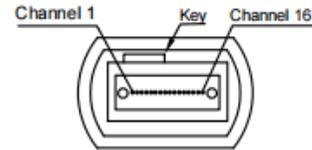
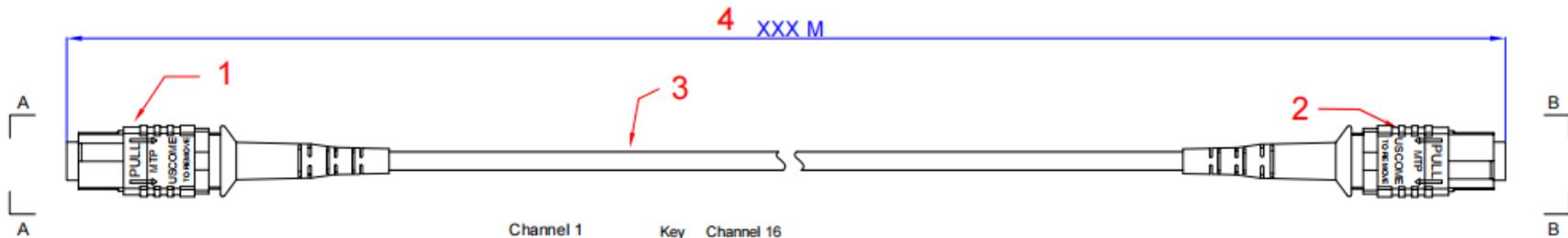
NO.	Items	Detail	Description
1	Optical Fiber	Fiber Count	12
		Diameter	0.25±0.015mm
2	Strength member	Material	Kevlar
3	Outer Jacket	Material	LSZH
		Diameter	3.0±0.2mm
		Color	Magenta

Length Tolerance

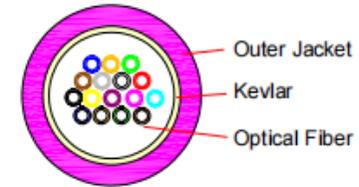
Tolerance	L≤0.5M	0.5M<L≤5M	5M<L≤10M	10M<L≤30M	30M<L≤100M	L>100M
MM	+50/-0	+100/-0	+150/-0	+250/-0	+1%L/-0	+1.5%L/-0

MPO Patch Panel+Cassette

Type: MTP/UPC/F-MTP/UPC/F 16Fibers OM4 LSZH Type B

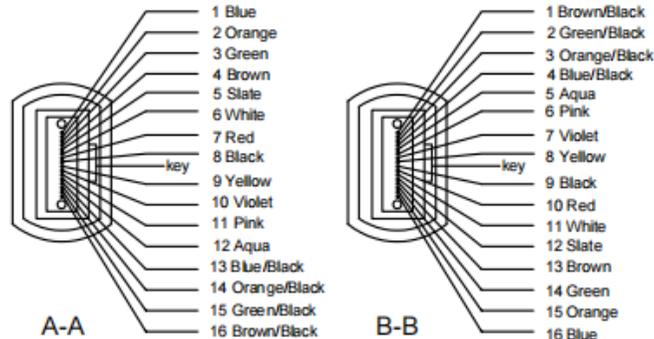


16F MPO Channel Definition (A&B Front View)



Fiber Chart

250um Fiber Colors	Side A (Top)	Side B (Bottom)
Blue	Channel 1	Channel 16
Orange	Channel 2	Channel 15
Green	Channel 3	Channel 14
Brown	Channel 4	Channel 13
Slate	Channel 5	Channel 12
White	Channel 6	Channel 11
Red	Channel 7	Channel 10
Black	Channel 8	Channel 9
Yellow	Channel 9	Channel 8
Violet	Channel 10	Channel 7
Pink	Channel 11	Channel 6
Aqua	Channel 12	Channel 5
Blue/Black	Channel 13	Channel 4
Orange/Black	Channel 14	Channel 3
Green/Black	Channel 15	Channel 2
Brown/Black	Channel 16	Channel 1



3.Cable Parameter

NO.	Items	Detail	Description
1	Optical Fiber	Fiber Count	16
		Diameter	0.25 ± 0.015mm
2	Strength member	Material	Kevlar
3	Outer Jacket	Material	LSZH
		Diameter	3.0 ± 0.2mm
		Color	Magenta

Specification:

- 1.MPO/APC/F MM Connector
- 2.MPO/APC/F MM Connector
- 3.16F OM4 Mini Cable LSZH
- 4.Length:XXX M

Perfomation:

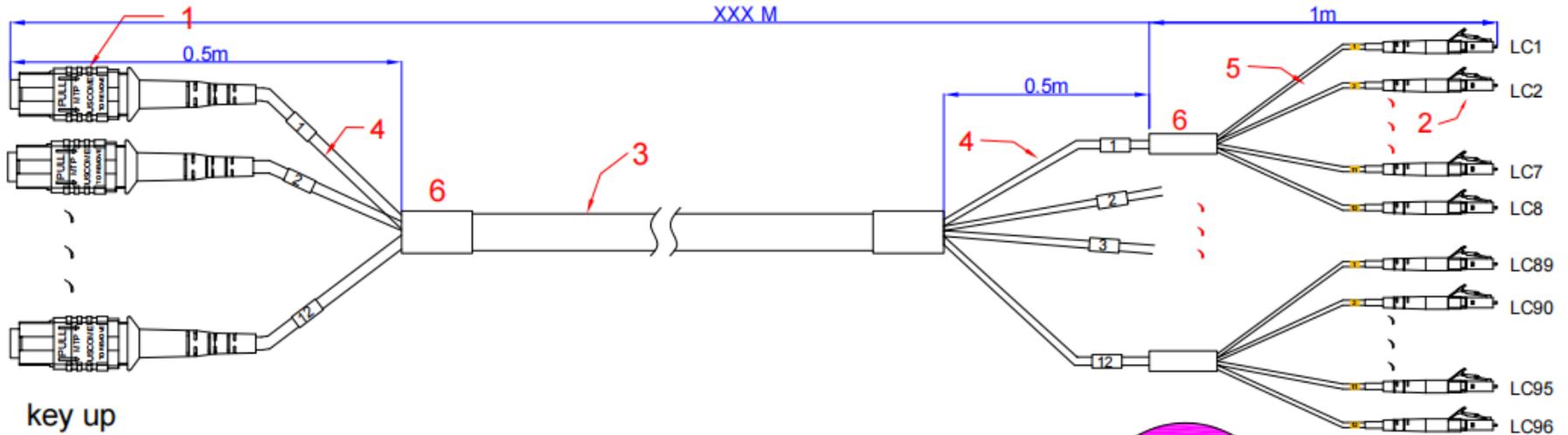
- 1.Insertion loss: Typical≤0.20dB,Max≤0.35dB
- 2.Return loss: SM,UPC≥50dB,APC≥60dB
MM,UPC≥20dB
- 3.Male:With Pins,Female:Without Pins
- 4.Tensile Strength:<0.3(Max 66N)
- 5.Operating Temperature:-20°C to +75°C

Length Tolerance

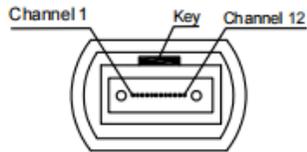
Tolerance	L≤0.5M	0.5M<L≤5M	5M<L≤10M	10M<L≤30M	30M<L≤100M	L> 100M
MM	+50/-0	+100/-0	+150/-0	+250/-0	+1%L/-0	+1.5%L/-0

MPO Patch Panel+Cassette

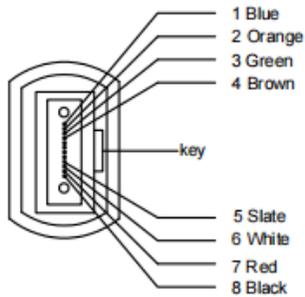
Type: 4*MTP/UPC/F-MTP/UPC/F 12*12Fibers OM4 LSZH Type B



key up



12F MTP Channel Definition (A&B Front View)



Specification:

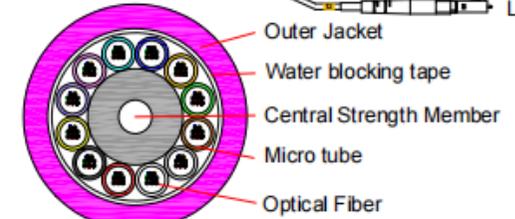
- 1.MTP/UPC/M SM Connector
- 2.LC/UPC MM Connector 2.0mm
- 3.96F 12x8F 250um OM4 Distribution LSZH Cable
- 4.3.0mm Tube LSZH
- 5.2.0mm Tube LSZH
- 6.Heat Shrink

Perfomation:

- 1.Insertion loss:MTP, Typical ≤ 0.20 dB, Max ≤ 0.35 dB;
LC, Typical ≤ 0.20 dB, Max ≤ 0.30 dB
- 2.Return loss:MPO ≥ 20 dB; LC ≥ 30 dB
- 3.Male:With Pins,Female:Without Pins
- 4.Tensile Strength: < 0.3 (Max 66N)
- 5.Opearting Temperature: -20°C to $+70^{\circ}\text{C}$

Length Tolerance

Tolerance	L ≤ 0.5 M	0.5M<L ≤ 5 M	5M<L ≤ 10 M	10M<L ≤ 30 M	30M<L ≤ 100 M	L>100M
MM	+50/-0	+100/-0	+150/-0	+250/-0	+1%L/-0	+1.5%L/-0



3.Cable Parameter

NO.	Items	Detail	Description
1	Optical Fiber	Fiber Count	96
		Diameter	0.25 \pm 0.015mm
3	Micro tube	Material	LSZH
		Diameter	1.5 \pm 0.1mm
4	Strength Member	Material	kevlar
5	Outer Jacket	Material	LSZH
		Diameter	9.5 \pm 0.5mm
		Color	Black