

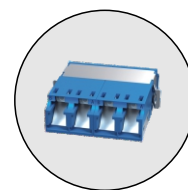


# MPB6 MPO/LC/CS/SN Cassette Datasheet

## Pre-terminated Modular Cassette System



- 100G upgrade to 400G/800G
- High-density fiber optic cabling
- Supports fusion patching, splicing, and adapter panel, TAP



Optional Dust Shutter Adapter

## MPB6 Cassettes(MPO-LC)



| Product Constructions            |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| Fiber Count                      | 8 Fibers,12 Fibers,16 Fibers,24 Fibers                              |
| Fiber Mode                       | Single Mode: G657A1/G657A2                                          |
|                                  | Multimode: OM3/OM4/OM5                                              |
| Polarity Type                    | Type A; Type B                                                      |
| Front Connector                  | Single Mode: LC Connector UPC/APC<br>(UPC:Blue/APC:Green)           |
|                                  | Multimode: LC Connector UPC<br>(OM3:Aqua/OM4:Violet/OM5:Lime Green) |
| Rear Connector                   | Single Mode: MPO/MTP APC/PC Male                                    |
|                                  | Multimode: MPO/MTP PC Male                                          |
| Material                         | Plastic                                                             |
| Dimensions (WxDxH)<br>No Adapter | 8 Fibers Cassettes: 60mm×105mm×11.4mm                               |
|                                  | 12 Fibers Cassettes: 90mm×130mm×11.4mm                              |
|                                  | 16 Fibers Cassettes: 127.5mm×130mm×11.4mm                           |
|                                  | 24 Fibers Cassettes: 187.5mm×130mm×11.4mm                           |

| Performance Properties            |                                     |
|-----------------------------------|-------------------------------------|
| Front Connector<br>Insertion Loss | SM:UPC≤0.3dB;APC≤0.3dB              |
|                                   | MM:UPC≤0.2dB                        |
| Front Connector Return Loss       | SM:UPC≥50dB,APC≥60dB;MM:UPC≥35dB    |
| Rear Connector<br>Insertion Loss  | MPO(SM:APC≤0.35dB;MM:PC≤0.35dB)     |
|                                   | MTP(SM:APC≤0.35dB;MM:PC≤0.35dB)     |
| Rear Connector<br>Return Loss     | MPO(SM:APC≥60dB,PC≥50dB;MM:PC≥25dB) |
|                                   | MTP(SM:APC≥60dB;MM:PC≥35dB);        |

**Note:**SM:Single Mode,MM:Multimode

## MPB6 Cassettes(MPO-CS)



| Product Constructions            |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| Fiber Count                      | 12 Fibers,24 Fibers                                                 |
| Fiber Mode                       | Single Mode: G657A1/G657A2                                          |
|                                  | Multimode: OM3/OM4/OM5                                              |
| Polarity Type                    | Type A; Type B                                                      |
| Front Connector                  | Single Mode: CS Connector UPC/APC<br>(UPC:Blue/APC:Green)           |
|                                  | Multimode: CS Connector UPC<br>(OM3:Aqua/OM4:Violet/OM5:Lime Green) |
| Rear Connector                   | Single Mode: MPO/MTP APC/PC Male                                    |
|                                  | Multimode: MPO/MTP PC Male                                          |
| Material                         | Plastic                                                             |
| Dimensions (WxDxH)<br>No Adapter | 12 Fibers Cassettes: 60mm × 105mm × 11.4mm                          |
|                                  | 24 Fibers Cassettes: 127.5mm × 130mm × 11.4mm                       |

| Performance Properties            |                                     |
|-----------------------------------|-------------------------------------|
| Front Connector<br>Insertion Loss | SM:UPC≤0.3dB;APC≤0.3dB              |
|                                   | MM:UPC≤0.2dB                        |
| Front Connector Return Loss       | SM:UPC≥50dB,APC≥60dB;MM:UPC≥35dB    |
| Rear Connector<br>Insertion Loss  | MPO(SM:APC≤0.35dB;MM:PC≤0.35dB)     |
|                                   | MTP(SM:APC≤0.35dB;MM:PC≤0.35dB)     |
| Rear Connector<br>Return Loss     | MPO(SM:APC≥60dB,PC≥50dB;MM:PC≥25dB) |
|                                   | MTP(SM:APC≥60dB;MM:PC≥35dB);        |

**Note:**SM:Single Mode,MM:Multimode

## MPB6 Cassettes(MPO-SN)

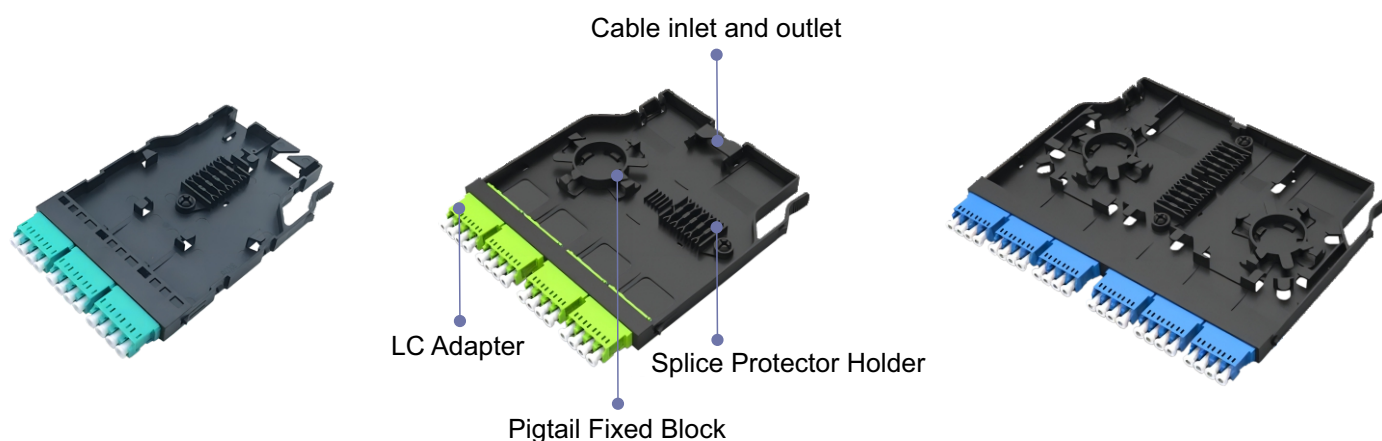


| Product Constructions            |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| Fiber Count                      | 16 Fibers,24 Fibers,32 Fibers                                       |
| Fiber Mode                       | Single Mode: G657A1/G657A2                                          |
|                                  | Multimode: OM3/OM4/OM5                                              |
| Polarity Type                    | Type A; Type B                                                      |
| Front Connector                  | Single Mode: SN Connector UPC/APC<br>(UPC:Blue/APC:Green)           |
|                                  | Multimode: SN Connector UPC<br>(OM3:Aqua/OM4:Violet/OM5:Lime Green) |
| Rear Connector                   | Single Mode: MPO/MTP APC/PC Male                                    |
|                                  | Multimode: MPO/MTP PC Male                                          |
| Material                         | Plastic                                                             |
| Dimensions (WxDxH)<br>No Adapter | 16 Fibers Cassettes: 60mm×105mm×11.4mm                              |
|                                  | 24 Fibers Cassettes: 90mm×130mm×11.4mm                              |
|                                  | 32 Fibers Cassettes: 127.5mm×130mm×11.4mm                           |

| Performance Properties         |                                     |
|--------------------------------|-------------------------------------|
| Front Connector Insertion Loss | SM:UPC≤0.3dB;APC≤0.3dB              |
|                                | MM:UPC≤0.2dB                        |
| Front Connector Return Loss    | SM:UPC≥50dB,APC≥60dB;MM:UPC≥35dB    |
| Rear Connector Insertion Loss  | MPO(SM:APC≤0.35dB;MM:PC≤0.35dB)     |
|                                | MTP(SM:APC≤0.35dB;MM:PC≤0.35dB)     |
| Rear Connector Return Loss     | MPO(SM:APC≥60dB,PC≥50dB;MM:PC≥25dB) |
|                                | MTP(SM:APC≥60dB;MM:PC≥35dB);        |

**Note:**SM:Single Mode,MM:Multimode

## MPB6S Cassettes(Splicing)



### Splice Protector Holder Selection



Heat Shrinkable  
Splice Protector Holder



Crimping  
Splice Protector Holder

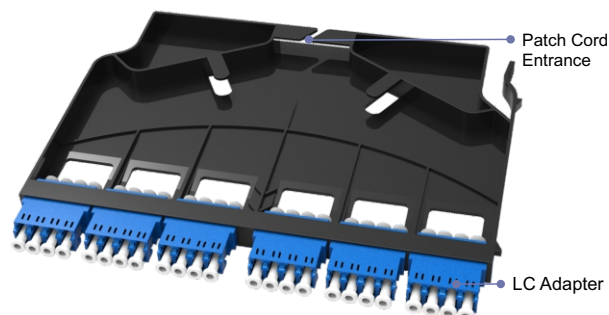
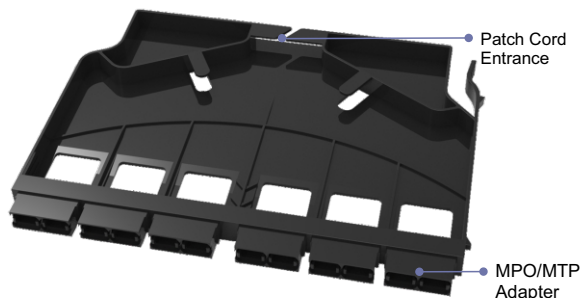
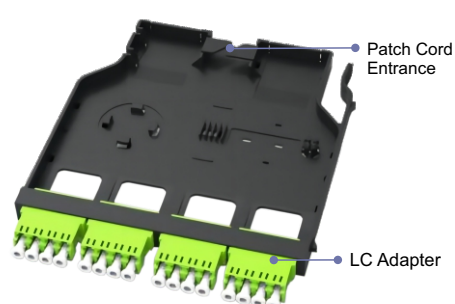
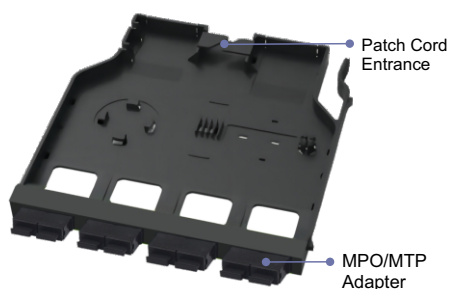
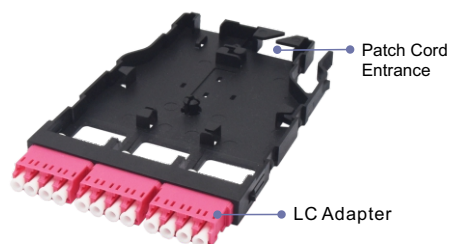
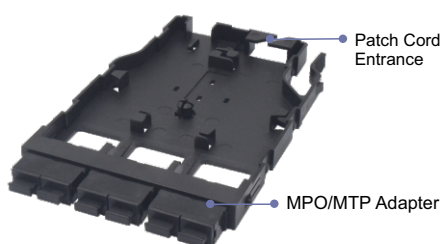
Cassettes includes pigtail

| Product Constructions            |                                                                 |
|----------------------------------|-----------------------------------------------------------------|
| Fiber Count                      | 12 Fibers/16 Fibers/24 Fibers                                   |
| Fiber Mode                       | Single Mode: G657A1/G657A2                                      |
|                                  | Multimode: OM3/OM4/OM5                                          |
| Material                         | Plastic                                                         |
| Front Connector                  | Single Mode: LC Connector UPC/APC(UPC:Blue/APC:Green)           |
|                                  | Multimode: LC Connector UPC(OM3:Aqua/OM4:Violet/OM5:Lime Green) |
| Dimensions (WxDxH)<br>No Adapter | 12 Fibers Cassettes: 90mm × 130mm × 11.4mm                      |
|                                  | 16 Fibers Cassettes: 127.5mm × 130mm × 11.4mm                   |
|                                  | 24 Fibers Cassettes: 187.5mm × 130mm × 11.4mm                   |

| Performance Properties            |                                                       |
|-----------------------------------|-------------------------------------------------------|
| Front Connector<br>Insertion Loss | SM:UPC $\leq$ 0.3dB;APC $\leq$ 0.3dB                  |
|                                   | MM:UPC $\leq$ 0.2dB                                   |
| Front Connector Return Loss       | SM:UPC $\geq$ 50dB,APC $\geq$ 60dB;MM:UPC $\geq$ 35dB |

**Note:**SM:Single Mode,MM:Multimode

## MPB6P Cassettes(Panel)

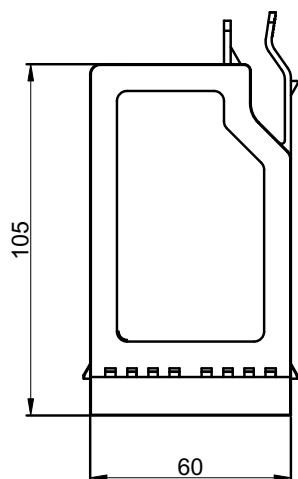


### Product Constructions

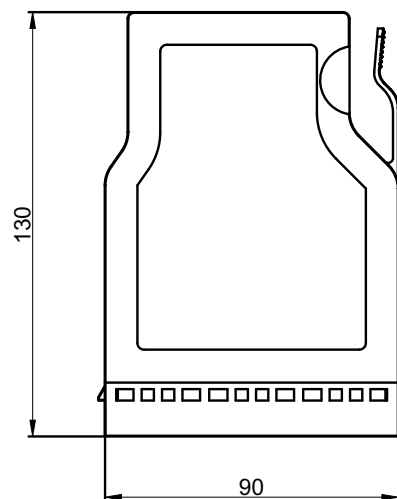
| Material                         | Plastic                                                         |
|----------------------------------|-----------------------------------------------------------------|
| Front Adapter                    | LC Quad / CS 3-Channel(6F) / SN 2-Channel(8F)<br>MPO/MTP Duplex |
| Dimensions (WxDxH)<br>No Adapter | 8 Fibers Cassettes: 60mm×105mm×11.4mm                           |
|                                  | 12 Fibers Cassettes: 90mm×130mm×11.4mm                          |
|                                  | 16 Fibers Cassettes: 127.5mm×130mm×11.4mm                       |
|                                  | 24 Fibers Cassettes: 187.5mm×130mm×11.4mm                       |

**Note:**Dimensions are based on LC adapter cassettes

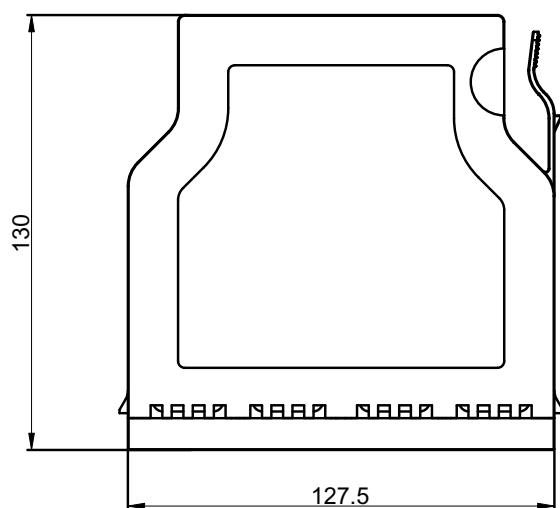
## Cassettes 2D View



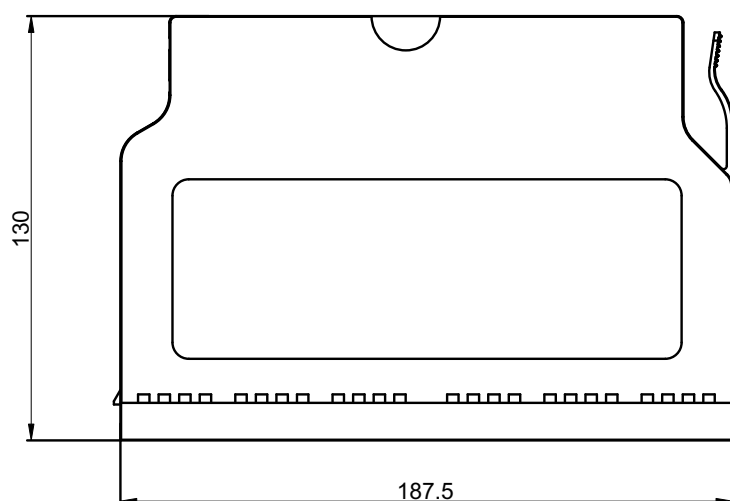
8 Fibers LC/12 Fibers CS/16 Fibers SN



12 Fibers



16 Fibers

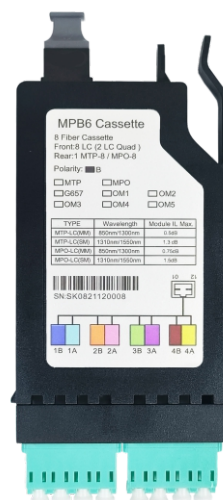
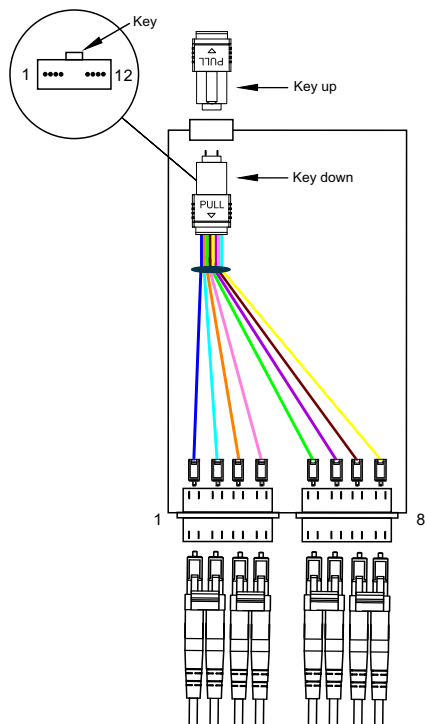


24 Fibers



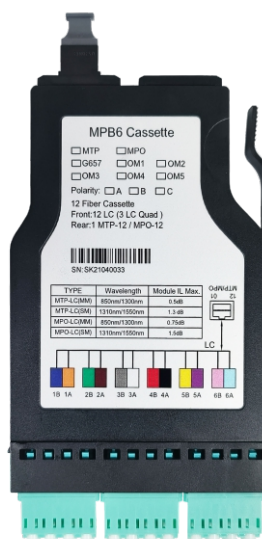
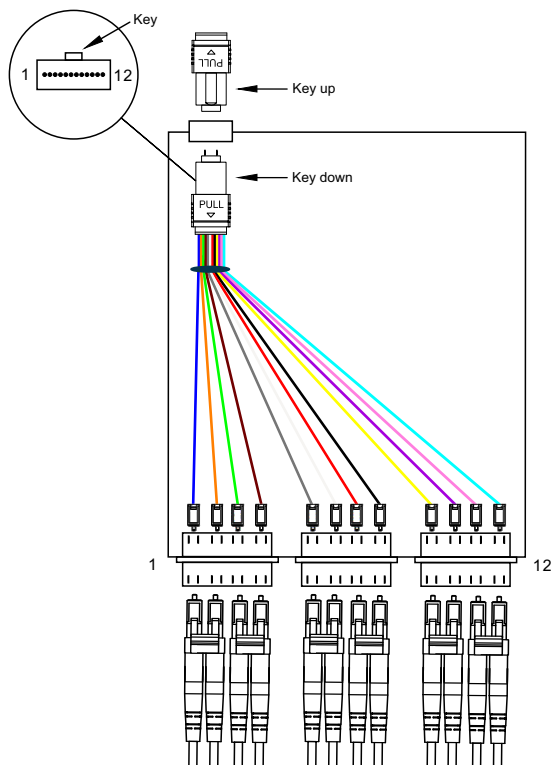
# Polarity Illustration

## 8 Cassette, Type B



|     |   |    |   |    |   |    |   |   |
|-----|---|----|---|----|---|----|---|---|
| MPO | 1 | 12 | 2 | 11 | 3 | 10 | 4 | 9 |
| LC  | 1 | 2  | 3 | 4  | 5 | 6  | 7 | 8 |

## 12 Cassette, Type A

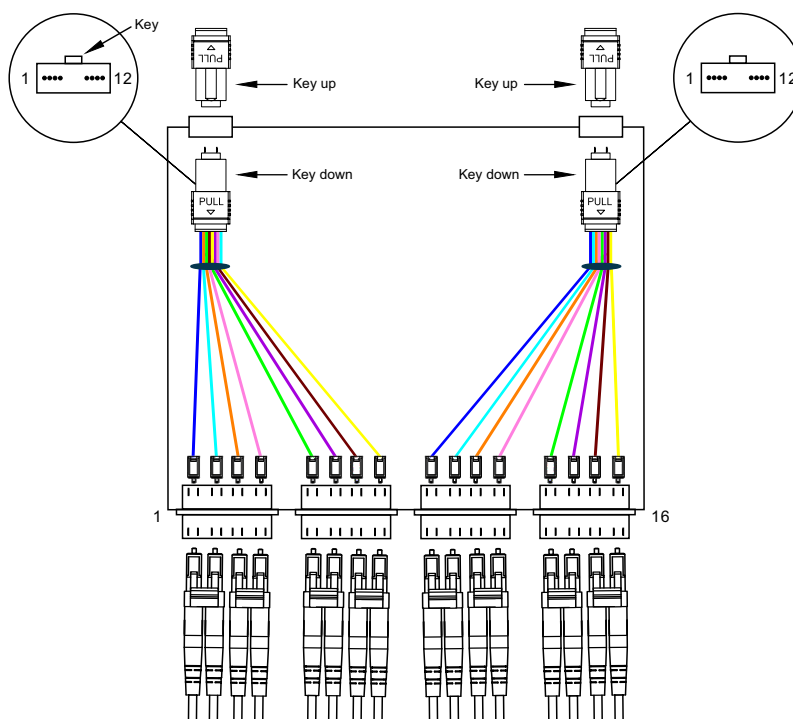


|     |   |   |   |   |   |   |   |   |   |    |    |    |
|-----|---|---|---|---|---|---|---|---|---|----|----|----|
| MPO | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| LC  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |



# Polarity Illustration

## 16 Cassette, Type B

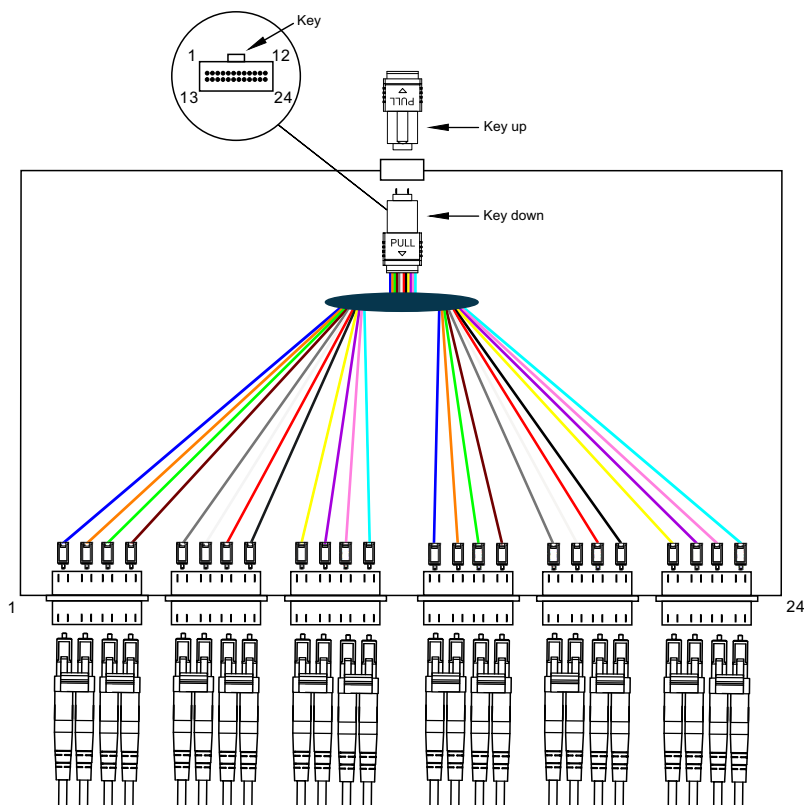


|       |   |    |   |    |   |    |   |   |
|-------|---|----|---|----|---|----|---|---|
| A-MPO | 1 | 12 | 2 | 11 | 3 | 10 | 4 | 9 |
| LC    | 1 | 2  | 3 | 4  | 5 | 6  | 7 | 8 |

|       |   |    |    |    |    |    |    |    |
|-------|---|----|----|----|----|----|----|----|
| B-MPO | 1 | 12 | 2  | 11 | 3  | 10 | 4  | 9  |
| LC    | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

# Polarity Illustration

## 24 Cassette, Type A



|            |    |    |    |    |    |    |    |    |    |    |    |    |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|
| MPO-Top    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| LC         | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| MPO-Bottom | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| LC         | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

## Ordering Information



### MPB6 Cassettes

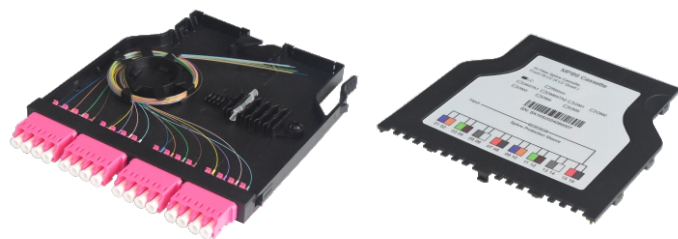
|                                                                      | MPB6_12F - AP - P - Black - 1×12 - MPO/PC - LC/UPC - OM4 |
|----------------------------------------------------------------------|----------------------------------------------------------|
|                                                                      | 1 2 3 4 5 6 7 8                                          |
| 1-Model                                                              | MPB6_8F, MPB6_12F, MPB6_16F, MPB6_24F                    |
| 2-Configuration                                                      | EM:Empty; AD:Adapter Included; AP:Fully Equipped         |
| 3-Material                                                           | P:Plastic                                                |
| 4-Color                                                              | Black                                                    |
| 5-Cassettes Patch Cord                                               | 1×8;1×12;1×16;1×24;2x12:Fiber Count                      |
| 6-Rear Connector                                                     | MPO/PC;MPO/APC;MTP/PC;MTP/APC                            |
| 7-Front Connector                                                    | LC/PC;LC/APC;CS/PC;CS/APC;SN/PC;SN/APC                   |
| 8-Fiber Mode                                                         | G657A1;OM3;OM4;OM5                                       |
| Note: The front end uses CS adapter and the module box uses MPB6_8F. |                                                          |



### MPB6P Cassettes

|                                                                                                                                                                                                                                                                            | MPB6P_12F - AD - P - Black - 3MPO         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
|                                                                                                                                                                                                                                                                            | 1 2 3 4 5                                 |
| 1-Model                                                                                                                                                                                                                                                                    | MPB6P_8F, MPB6P_12F, MPB6P_16F, MPB6P_24F |
| 2-Configuration                                                                                                                                                                                                                                                            | EM:Empty; AD:Adapter Included             |
| 3-Material                                                                                                                                                                                                                                                                 | P:Plastic                                 |
| 4-Color                                                                                                                                                                                                                                                                    | Black                                     |
| 5-Adapter Type                                                                                                                                                                                                                                                             | 2MPO,3MPO,4MTP,2SLD(LC Quad),3SLD,4SLD    |
| Note: 1.LC adapter: Inline quad short ear symmetrical type; MPO/MTP adapter: SC type duplex short ear flange, 1 key end facing up, the other key end facing down.MTP is a designated product of US Conec.<br>2. There are 2/3/4/6 square holes on the bottom of the panel. |                                           |

# Ordering Information



## MPB6S Cassettes

| <div> <div>MPB6S</div> <div>_16F-</div> <div>AP</div> <div>-P-</div> <div>Black</div> <div>-1×16-</div> <div>LC/UPC-</div> <div>OM4</div> </div> <div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>6</div> <div>7</div> </div> |                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| 1-Model                                                                                                                                                                                                                                                  | MPB6S_12F, MPB6S_16F, MPB6S_24F                  |
| 2-Configuration                                                                                                                                                                                                                                          | EM:Empty; AD:Adapter Included; AP:Fully Equipped |
| 3-Material                                                                                                                                                                                                                                               | P:Plastic                                        |
| 4-Color                                                                                                                                                                                                                                                  | Black                                            |
| 5-Cassettes Patch Cord                                                                                                                                                                                                                                   | 1×12;1×16;1×24;2x12:Fiber Count                  |
| 6-Front Connector                                                                                                                                                                                                                                        | LC/PC;LC/APC;SC/PC;SC/APC                        |
| 7-Fiber Mode                                                                                                                                                                                                                                             | G657A1;OM3;OM4;OM5                               |
| Note: 1.LC adapter: straight four-pin short lug; MPO/MTP adapter: SC type short lug flange, with one end of the key facing up and the other end facing down.<br>2. There are 3/4/6 square holes at the bottom of the panel.                              |                                                  |



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