

MOC and LOC Routing Clips and Clamps

For Fluid System Applications



Endless ways to route fluid systems with a single solution? Go configure.

Versatile. Secure. That's MOC. HellermannTyton's comprehensive family of tube and pipe routing clips means unlimited possibilities for auto, truck and heavy equipment manufacturers.

Our patented design results in superior retention, preventing inadvertent disengagement under vibration and during assembly processes such as vacuum fill. Yet, these products quickly and easily attach to routings to help installers maintain high productivity.

That's why our engineers developed hundreds of modular configurations for our open clips and locking clamps. With 12 different product designs and numerous size combinations, these fasteners break free of traditional routing limitations, helping you get a custom-like solution right off the shelf.

Of course, there's always room for a new configuration in the event your unique application warrants it. Need to add a third or fourth clip or a different mount? Let's work together to route your tubes and wiring in the most efficient and effective way possible.

- Ideal for fuel, brake, vacuum, venting, cable and harness, HVAC and powertrain thermal management applications.
- Available in impact modified, heat and UV stabilized PA66 for long-term durability as well as high-heat and high-strength options.
- Cable tie option provides the widest range of diameter adjustments up to 50 mm.
- Locking clamps add the assurance of a 360-degree locking enclosure.



Retaining legs resist direction of bundle disengagement.

Small gap prevents tube from disengaging under vacuum fill.

Patented added retention feature on sizes 10 mm and above holds tube securely and provides the first level of resistance from disengagement.

Bundling and Securing

MOC & LOC Bundle Sizing*

These are recommended size ranges for all clips and clamps. Recommended sizes may differ depending on the application, product requirements and materials used. If in doubt, please request samples of multiple sizes from your sales manager.

| MOC Type | Pipe, Hard Tube/ Hose, Cable | | Soft Tube / Hose | | Harness | |
|----------|---------------------------------|----------------|------------------|----------------|----------------|----------------|
| | MIN dia. mm | MAX dia. mm | MIN dia. mm | MAX dia. mm | MIN dia. mm | MAX dia. mm |
| MOC5 | 4.8 | 5.5 | 4.0 | 5.3 | 4.5 | 5.5 |
| MOC6 | 6.0 | 6.8 | 5.5 | 6.5 | 5.5 | 6.5 |
| MOC7 | 7.0 | 8.0 | 6.0 | 7.5 | 6.5 | 7.5 |
| MOC8 | 7.9 | 9.0 | 7.0 | 8.5 | 7.5 | 8.5 |
| MOC9 | 9.0 | 10.0 | 8.0 | 10.0 | 8.5 | 10.0 |
| MOC10 | 10.0 | 11.5 | 9.5 | 11.5 | 10.0 | 11.5 |
| MOC12 | 12.0 | 13.8 | 10.5 | 13.0 | 11.5 | 13.0 |
| MOC14 | 14.0 | 15.8 | 13.0 | 15.0 | 13.0 | 15.0 |
| MOC16 | 15.9 | 18.3 | 14.0 | 17.0 | 14.0 | 17.0 |
| MOC19 | 19.0 | 21.8 | 17.0 | 20.0 | 17.0 | 20.0 |
| MOC22 | 22.0 | 25.0 | 20.0 | 24.0 | 20.0 | 24.0 |
| MOC26 | 25.9 | 29.0 | 23.0 | 28.5 | 24.5 | 28.5 |

| LOC Type | Pipe, Hard Tube/ Hose, Cable | | Soft Tube / Hose | | Harness | |
|----------|---------------------------------|----------------|------------------|----------------|----------------|----------------|
| | MIN dia. mm | MAX dia. mm | MIN dia. mm | MAX dia. mm | MIN dia. mm | MAX dia. mm |
| LOC5-9 | 7.0 | 10.0 | 5.0 | 10.0 | 5.0 | 10.0 |
| LOC10-14 | 11.0 | 15.0 | 10.0 | 15.0 | 10.0 | 15.0 |
| LOC15-19 | 16.0 | 20.0 | 15.0 | 20.0 | 15.0 | 20.0 |
| LOC20-25 | 21.0 | 25.0 | 20.0 | 25.0 | 20.0 | 25.0 |
| Tie Type | MIN dia. mm | MAX dia. mm | MIN dia. mm | MAX dia. mm | MIN dia. mm | MAX dia. mm |
| T50R | 4.0 | 50.0 | 4.0 | 50.0 | 4.0 | 50.0 |
| T50SVC | 2.0 | 35.0 | 2.0 | 35.0 | 2.0 | 35.0 |
| T50SMVC | 2.0 | 50.0 | 2.0 | 50.0 | 2.0 | 50.0 |

| FT Type | Min Panel mm | Max Panel mm | Min Hole Ø mm | Max Hole Ø mm |
|---------|--------------|--------------|---------------|---------------|
| FT6.5 | 0.6 | 5.5 | 6.1 | 6.9 |

| FT Type | Min Panel mm | Max Panel mm | Slot 1 mm | Slot 2 mm | Slot 3 mm | Slot 4 mm |
|---------|--------------|--------------|-----------|-----------|-----------|-----------|
| FTOVAL | 0.6 | 5.5 | 6.2x12.2 | 6.5x12.5 | 6.5x12 | 7x13 |

*Recommended sizes may differ depending on the application, product requirements and materials used.

Bundling and Securing

Bundle Separators

MOC Clips to MOC Clips

MOC to MOC

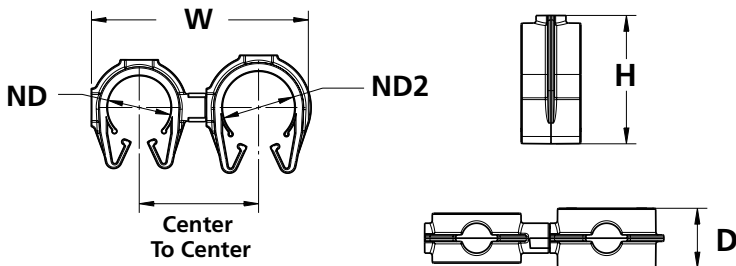
Rotatable dual routing clips keep two routings secured and separated. A swivel coupler allows them to rotate independently of each other.

Features and Benefits

- Patented retention design features inverted retaining legs, narrow opening and circular retainer to prevent inadvertent disengagement.
- Controlled flex and angled entry promote easy installation.
- Independent rotation allows for adjustable routing orientation.



| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |



HF ✓

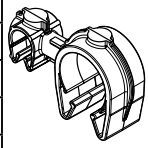
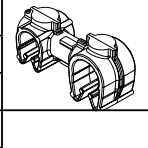
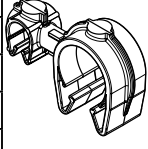
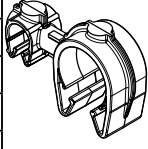
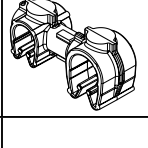
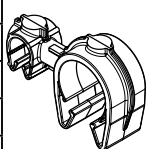
RoHS ✓

| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Nominal Clip Dia. 2 (ND2) mm | Width (W) mm | Height (H) mm | Depth (D) mm | Center to Center mm | Drawing |
|-----------|-------------|-------------------------------|------------------------------|--------------|---------------|--------------|---------------------|---------|
| 156-02280 | MOC5FMOC5M | 5.0 | 5.0 | 24.1 | 10.8 | 10.0 | 14.8 | |
| 156-02281 | MOC5FMOC6M | 5.0 | 6.0 | 25.8 | 12.0 | 10.0 | 15.5 | |
| 156-02282 | MOC5FMOC7M | 5.0 | 7.0 | 26.3 | 13.4 | 10.0 | 16.0 | |
| 156-02283 | MOC5FMOC8M | 5.0 | 8.0 | 27.9 | 15.2 | 10.0 | 16.8 | |
| 156-02284 | MOC5FMOC9M | 5.0 | 9.0 | 29.7 | 17.2 | 10.0 | 17.4 | |
| 156-02285 | MOC5FMOC10M | 5.0 | 10.0 | 31.7 | 19.6 | 10.0 | 18.4 | |
| 156-02286 | MOC5FMOC12M | 5.0 | 12.0 | 33.6 | 22.1 | 10.0 | 19.3 | |
| 156-02287 | MOC5FMOC14M | 5.0 | 14.0 | 35.7 | 23.8 | 10.0 | 20.4 | |
| 156-02288 | MOC5FMOC16M | 5.0 | 16.0 | 37.7 | 25.7 | 12.0 | 21.3 | |
| 156-02289 | MOC5FMOC19M | 5.0 | 19.0 | 42.0 | 32.8 | 12.0 | 23.4 | |
| 156-02290 | MOC5FMOC22M | 5.0 | 22.0 | 45.2 | 36.5 | 12.0 | 24.9 | |
| 156-02292 | MOC5FMOC26M | 5.0 | 26.0 | 49.3 | 41.0 | 12.0 | 26.9 | |
| 156-02293 | MOC6FMOC6M | 6.0 | 6.0 | 27.2 | 12.0 | 10.0 | 16.1 | |
| 156-02294 | MOC6FMOC7M | 6.0 | 7.0 | 27.6 | 13.4 | 10.0 | 16.5 | |
| 156-02295 | MOC6FMOC8M | 6.0 | 8.0 | 29.2 | 15.2 | 10.0 | 17.4 | |
| 156-02296 | MOC6FMOC9M | 6.0 | 9.0 | 31.0 | 17.2 | 10.0 | 17.9 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

MOC Clips to MOC Clips

MOC to MOC

| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Nominal Clip Dia. 2 (ND2) mm | Width (W) mm | Height (H) mm | Depth (D) mm | Center to Center mm | Drawing |
|-----------|-------------|-------------------------------|------------------------------|--------------|---------------|--------------|---------------------|---|
| 156-02297 | MOC6FMOC10M | 6.0 | 10.0 | 33.0 | 19.6 | 10.0 | 18.9 |  |
| 156-02298 | MOC6FMOC12M | 6.0 | 12.0 | 34.9 | 22.1 | 10.0 | 19.8 | |
| 156-02299 | MOC6FMOC14M | 6.0 | 14.0 | 36.5 | 23.8 | 10.0 | 20.9 | |
| 156-02300 | MOC6FMOC16M | 6.0 | 16.0 | 39.0 | 25.7 | 12.0 | 21.9 | |
| 156-02301 | MOC6FMOC19M | 6.0 | 19.0 | 43.3 | 32.8 | 12.0 | 24.0 | |
| 156-02302 | MOC6FMOC22M | 6.0 | 22.0 | 46.5 | 36.5 | 12.0 | 25.5 | |
| 156-02304 | MOC6FMOC26M | 6.0 | 26.0 | 50.6 | 41.0 | 12.0 | 27.5 |  |
| 156-02305 | MOC7FMOC7M | 7.0 | 7.0 | 28.6 | 13.4 | 10.0 | 17.0 | |
| 156-02306 | MOC7FMOC8M | 7.0 | 8.0 | 30.2 | 15.2 | 10.0 | 17.9 | |
| 156-02307 | MOC7FMOC9M | 7.0 | 9.0 | 31.7 | 17.2 | 10.0 | 18.2 | |
| 156-02308 | MOC7FMOC10M | 7.0 | 10.0 | 33.9 | 19.6 | 10.0 | 19.4 | |
| 156-02309 | MOC7FMOC12M | 7.0 | 12.0 | 35.9 | 22.1 | 10.0 | 20.3 | |
| 156-02310 | MOC7FMOC14M | 7.0 | 14.0 | 37.5 | 23.8 | 10.0 | 21.4 |  |
| 156-02311 | MOC7FMOC16M | 7.0 | 16.0 | 39.3 | 25.7 | 12.0 | 22.4 | |
| 156-02312 | MOC7FMOC19M | 7.0 | 19.0 | 44.3 | 32.8 | 12.0 | 24.5 | |
| 156-02313 | MOC7FMOC22M | 7.0 | 22.0 | 47.5 | 36.5 | 12.0 | 26.0 | |
| 156-02315 | MOC7FMOC26M | 7.0 | 26.0 | 51.5 | 41.0 | 12.0 | 28.0 | |
| 156-02316 | MOC8FMOC8M | 8.0 | 8.0 | 31.5 | 15.2 | 10.0 | 18.3 | |
| 156-02317 | MOC8FMOC9M | 8.0 | 9.0 | 33.3 | 17.2 | 10.0 | 18.9 | |
| 156-02318 | MOC8FMOC10M | 8.0 | 10.0 | 35.3 | 19.6 | 10.0 | 19.9 |  |
| 156-01666 | MOC8FMOC12M | 8.0 | 12.0 | 37.2 | 22.1 | 10.0 | 20.8 | |
| 156-02319 | MOC8FMOC14M | 8.0 | 14.0 | 38.8 | 23.8 | 10.0 | 21.9 | |
| 156-02320 | MOC8FMOC16M | 8.0 | 16.0 | 40.6 | 25.7 | 12.0 | 22.9 | |
| 156-02321 | MOC8FMOC19M | 8.0 | 19.0 | 45.6 | 32.8 | 12.0 | 25.0 | |
| 156-02322 | MOC8FMOC22M | 8.0 | 22.0 | 48.8 | 36.5 | 12.0 | 26.5 | |
| 156-02324 | MOC8FMOC26M | 8.0 | 26.0 | 52.8 | 41.0 | 12.0 | 28.5 |  |
| 156-02325 | MOC9FMOC9M | 9.0 | 9.0 | 34.3 | 17.2 | 10.0 | 19.4 | |
| 156-02326 | MOC9FMOC10M | 9.0 | 10.0 | 36.3 | 19.6 | 10.0 | 20.4 |  |
| 156-02327 | MOC9FMOC12M | 9.0 | 12.0 | 38.3 | 22.1 | 10.0 | 21.3 | |
| 156-02328 | MOC9FMOC14M | 9.0 | 14.0 | 39.8 | 23.8 | 10.0 | 22.4 | |
| 156-02329 | MOC9FMOC16M | 9.0 | 16.0 | 41.7 | 25.7 | 12.0 | 23.4 | |
| 156-02330 | MOC9FMOC19M | 9.0 | 19.0 | 46.7 | 32.8 | 12.0 | 25.5 | |
| 156-02331 | MOC9FMOC22M | 9.0 | 22.0 | 49.9 | 36.5 | 12.0 | 27.0 | |
| 156-02333 | MOC9FMOC26M | 9.0 | 26.0 | 53.9 | 41.0 | 12.0 | 29.0 | |

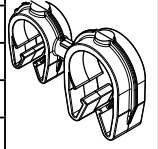
Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Bundling and Securing

Bundle Separators

MOC Clips to MOC Clips

MOC to MOC

| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Nominal Clip Dia. 2 (ND2) mm | Width (W) mm | Height (H) mm | Depth (D) mm | Center to Center mm | Drawing |
|-----------|--------------|-------------------------------|------------------------------|--------------|---------------|--------------|---------------------|--|
| 156-02334 | MOC10FMOC10M | 10.0 | 10.0 | 38.1 | 19.6 | 10.0 | 21.1 |  |
| 156-02335 | MOC10FMOC12M | 10.0 | 12.0 | 40.0 | 22.1 | 10.0 | 22.1 | |
| 156-02336 | MOC10FMOC14M | 10.0 | 14.0 | 41.6 | 23.8 | 10.0 | 23.2 | |
| 156-02337 | MOC10FMOC16M | 10.0 | 16.0 | 44.0 | 25.7 | 12.0 | 24.1 | |
| 156-02338 | MOC10FMOC19M | 10.0 | 19.0 | 48.4 | 32.8 | 12.0 | 26.2 | |
| 156-02339 | MOC10FMOC22M | 10.0 | 22.0 | 51.6 | 36.5 | 12.0 | 27.7 | |
| 156-02341 | MOC10FMOC26M | 10.0 | 26.0 | 55.6 | 41.0 | 12.0 | 29.7 | |
| 156-02342 | MOC12FMOC12M | 12.0 | 12.0 | 41.9 | 22.1 | 10.0 | 23.0 | |
| 156-02343 | MOC12FMOC14M | 12.0 | 14.0 | 43.4 | 23.8 | 10.0 | 24.1 | |
| 156-02344 | MOC12FMOC16M | 12.0 | 16.0 | 45.3 | 25.7 | 12.0 | 25.1 | |
| 156-02345 | MOC12FMOC19M | 12.0 | 19.0 | 50.3 | 32.8 | 12.0 | 27.2 | |
| 156-02346 | MOC12FMOC22M | 12.0 | 22.0 | 53.5 | 36.5 | 12.0 | 28.7 | |
| 156-02348 | MOC12FMOC26M | 12.0 | 26.0 | 57.5 | 41.0 | 12.0 | 30.7 | |
| 156-02349 | MOC14FMOC14M | 14.0 | 14.0 | 45.6 | 23.8 | 10.0 | 25.2 | |
| 156-02350 | MOC14FMOC16M | 14.0 | 16.0 | 47.4 | 25.7 | 12.0 | 26.1 | |
| 156-02351 | MOC14FMOC19M | 14.0 | 19.0 | 52.4 | 32.8 | 12.0 | 28.2 | |
| 156-02352 | MOC14FMOC22M | 14.0 | 22.0 | 55.6 | 36.5 | 12.0 | 29.7 | |
| 156-02354 | MOC14FMOC26M | 14.0 | 26.0 | 59.7 | 41.0 | 12.0 | 31.7 | |
| 156-02355 | MOC16FMOC16M | 16.0 | 16.0 | 49.2 | 25.7 | 12.0 | 26.9 | |
| 156-02356 | MOC16FMOC19M | 16.0 | 19.0 | 54.1 | 32.8 | 12.0 | 29.0 | |
| 156-02357 | MOC16FMOC22M | 16.0 | 22.0 | 57.3 | 36.5 | 12.0 | 30.5 | |
| 156-02359 | MOC16FMOC26M | 16.0 | 26.0 | 61.4 | 41.0 | 12.0 | 32.5 | |
| 156-02360 | MOC19FMOC19M | 19.0 | 19.0 | 59.0 | 32.8 | 12.0 | 31.8 | |
| 156-02361 | MOC19FMOC22M | 19.0 | 22.0 | 62.2 | 36.5 | 12.0 | 33.3 | |
| 156-02363 | MOC19FMOC26M | 19.0 | 26.0 | 66.3 | 41.0 | 12.0 | 35.3 | |
| 156-02490 | MOC22FMOC22M | 22.0 | 22.0 | 65.4 | 36.5 | 12.0 | 34.9 | |
| 156-02366 | MOC22FMOC26M | 22.0 | 26.0 | 69.4 | 41.0 | 12.0 | 36.9 | |
| 156-02369 | MOC26FMOC26M | 26.0 | 26.0 | 73.4 | 41.0 | 12.0 | 38.9 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

MOC Clips to MOC Clips

MOC to MOC Transverse

Transverse rotatable dual routing clips keep two routings secured and separated. One clip is oriented 90 degrees from the other to provide alternative access for bundle attachment. A swivel coupler allows them to rotate independently of each other.

Features and Benefits

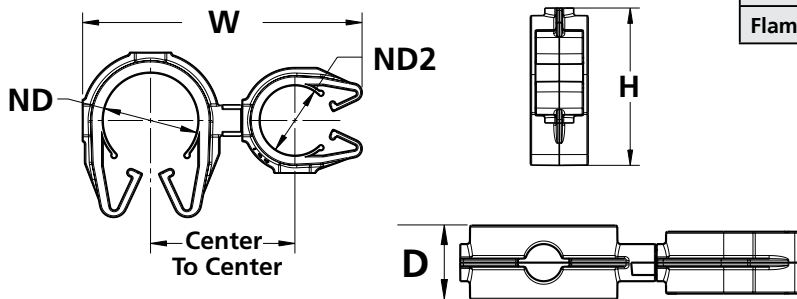
- Patented retention design features inverted retaining legs, narrow opening and circular retainer to prevent inadvertent disengagement.
- Controlled flex and angled entry promote easy installation.
- Independent rotation allows for adjustable routing orientation.



| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |

HF ✓

RoHS ✓



| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Nominal Clip Dia. 2 (ND2) mm | Width (W) mm | Height (H) mm | Depth (D) mm | Center to Center mm | Drawing |
|-----------|----------------|-------------------------------|------------------------------|--------------|---------------|--------------|---------------------|---------|
| 156-01924 | MOC5FMOC5M180 | 5.0 | 5.0 | 25.6 | 10.8 | 10.0 | 14.9 | |
| 156-01925 | MOC5FMOC6M180 | 5.0 | 6.0 | 26.8 | 11.1 | 10.0 | 15.5 | |
| 156-01926 | MOC5FMOC7M180 | 5.0 | 7.0 | 27.9 | 11.6 | 10.0 | 16.0 | |
| 156-01927 | MOC5FMOC8M180 | 5.0 | 8.0 | 30.0 | 13.2 | 10.0 | 16.8 | |
| 156-01928 | MOC5FMOC9M180 | 5.0 | 9.0 | 32.0 | 15.0 | 10.0 | 17.9 | |
| 156-01929 | MOC5FMOC10M180 | 5.0 | 10.0 | 34.4 | 16.9 | 10.0 | 18.4 | |
| 156-01930 | MOC5FMOC12M180 | 5.0 | 12.0 | 36.8 | 18.9 | 10.0 | 19.3 | |
| 156-01931 | MOC5FMOC14M180 | 5.0 | 14.0 | 38.6 | 20.9 | 10.0 | 20.4 | |
| 156-01932 | MOC5FMOC16M180 | 5.0 | 16.0 | 40.5 | 22.9 | 12.0 | 21.3 | |
| 156-01933 | MOC5FMOC19M180 | 5.0 | 19.0 | 47.5 | 27.3 | 12.0 | 23.5 | |
| 156-01934 | MOC5FMOC22M180 | 5.0 | 22.0 | 51.2 | 30.5 | 12.0 | 26.9 | |
| 156-01935 | MOC5FMOC26M180 | 5.0 | 26.0 | 55.7 | 34.5 | 12.0 | 28.5 | |
| 156-01948 | MOC6FMOC5M180 | 6.0 | 5.0 | 26.9 | 12.0 | 10.0 | 15.4 | |
| 156-01949 | MOC6FMOC6M180 | 6.0 | 6.0 | 28.1 | 12.0 | 10.0 | 16.1 | |
| 156-01950 | MOC6FMOC7M180 | 6.0 | 7.0 | 29.2 | 12.0 | 10.0 | 16.5 | |
| 156-01951 | MOC6FMOC8M180 | 6.0 | 8.0 | 31.3 | 13.2 | 10.0 | 17.4 | |
| 156-01952 | MOC6FMOC9M180 | 6.0 | 9.0 | 33.3 | 15.0 | 10.0 | 17.9 | |

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Bundling and Securing

Bundle Separators

MOC Clips to MOC Clips

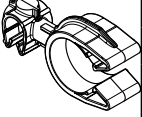
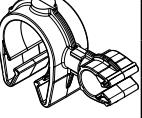
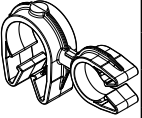
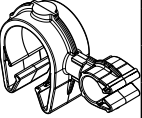
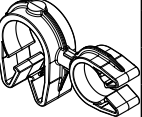
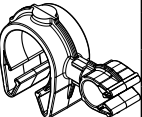
MOC to MOC Transverse

| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Nominal Clip Dia. 2 (ND2) mm | Width (W) mm | Height (H) mm | Depth (D) mm | Center to Center mm | Drawing |
|-----------|----------------|-------------------------------|------------------------------|--------------|---------------|--------------|---------------------|---------|
| 156-01953 | MOC6FMOC10M180 | 6.0 | 10.0 | 35.7 | 16.9 | 10.0 | 18.9 | |
| 156-01954 | MOC6FMOC12M180 | 6.0 | 12.0 | 38.1 | 18.9 | 10.0 | 19.8 | |
| 156-01955 | MOC6FMOC14M180 | 6.0 | 14.0 | 39.9 | 20.9 | 10.0 | 20.9 | |
| 156-01956 | MOC6FMOC16M180 | 6.0 | 16.0 | 41.8 | 22.9 | 12.0 | 21.9 | |
| 156-01957 | MOC6FMOC19M180 | 6.0 | 19.0 | 48.8 | 27.3 | 12.0 | 24.0 | |
| 156-01958 | MOC6FMOC22M180 | 6.0 | 22.0 | 52.5 | 30.5 | 12.0 | 25.5 | |
| 156-01959 | MOC6FMOC26M180 | 6.0 | 26.0 | 57.0 | 34.5 | 12.0 | 27.5 | |
| 156-01972 | MOC7FMOC5M180 | 7.0 | 5.0 | 27.8 | 13.4 | 10.0 | 15.9 | |
| 156-01973 | MOC7FMOC6M180 | 7.0 | 6.0 | 29.1 | 13.4 | 10.0 | 16.5 | |
| 156-01974 | MOC7FMOC7M180 | 7.0 | 7.0 | 30.1 | 13.4 | 10.0 | 17.0 | |
| 156-01975 | MOC7FMOC8M180 | 7.0 | 8.0 | 32.2 | 13.4 | 10.0 | 17.9 | |
| 156-01976 | MOC7FMOC9M180 | 7.0 | 9.0 | 34.2 | 15.0 | 10.0 | 18.4 | |
| 156-01977 | MOC7FMOC10M180 | 7.0 | 10.0 | 36.6 | 16.9 | 10.0 | 19.4 | |
| 156-01978 | MOC7FMOC12M180 | 7.0 | 12.0 | 39.1 | 18.9 | 10.0 | 20.3 | |
| 156-01979 | MOC7FMOC14M180 | 7.0 | 14.0 | 40.8 | 20.9 | 10.0 | 21.4 | |
| 156-01980 | MOC7FMOC16M180 | 7.0 | 16.0 | 42.8 | 22.9 | 12.0 | 22.4 | |
| 156-01981 | MOC7FMOC19M180 | 7.0 | 19.0 | 49.8 | 27.3 | 12.0 | 24.5 | |
| 156-01982 | MOC7FMOC22M180 | 7.0 | 22.0 | 53.5 | 30.5 | 12.0 | 26.0 | |
| 156-01983 | MOC7FMOC26M180 | 7.0 | 26.0 | 58.0 | 34.5 | 12.0 | 28.0 | |
| 156-01996 | MOC8FMOC5M180 | 8.0 | 5.0 | 29.2 | 15.2 | 10.0 | 16.4 | |
| 156-01997 | MOC8FMOC6M180 | 8.0 | 6.0 | 30.3 | 15.2 | 10.0 | 17.0 | |
| 156-01998 | MOC8FMOC7M180 | 8.0 | 7.0 | 31.4 | 15.2 | 10.0 | 17.5 | |
| 156-01999 | MOC8FMOC8M180 | 8.0 | 8.0 | 33.6 | 15.2 | 10.0 | 18.4 | |
| 156-02011 | MOC8FMOC9M180 | 8.0 | 9.0 | 35.6 | 15.2 | 10.0 | 18.9 | |
| 156-02012 | MOC8FMOC10M180 | 8.0 | 10.0 | 38.0 | 16.9 | 10.0 | 19.9 | |
| 156-02013 | MOC8FMOC12M180 | 8.0 | 12.0 | 40.4 | 18.9 | 10.0 | 20.8 | |
| 156-02014 | MOC8FMOC14M180 | 8.0 | 14.0 | 42.2 | 20.9 | 10.0 | 21.9 | |
| 156-02015 | MOC8FMOC16M180 | 8.0 | 16.0 | 44.1 | 22.9 | 12.0 | 22.9 | |
| 156-02016 | MOC8FMOC19M180 | 8.0 | 19.0 | 51.1 | 27.3 | 12.0 | 25.0 | |
| 156-02017 | MOC8FMOC22M180 | 8.0 | 22.0 | 54.8 | 30.5 | 12.0 | 26.5 | |
| 156-02018 | MOC8FMOC26M180 | 8.0 | 26.0 | 59.3 | 34.5 | 12.0 | 28.5 | |
| 156-02031 | MOC9FMOC5M180 | 9.0 | 5.0 | 30.2 | 17.2 | 10.0 | 16.9 | |
| 156-02032 | MOC9FMOC6M180 | 9.0 | 6.0 | 31.4 | 17.2 | 10.0 | 17.5 | |
| 156-02033 | MOC9FMOC7M180 | 9.0 | 7.0 | 32.5 | 17.2 | 10.0 | 18.0 | |
| 156-02034 | MOC9FMOC8M180 | 9.0 | 8.0 | 34.6 | 17.2 | 10.0 | 18.9 | |
| 156-02035 | MOC9FMOC9M180 | 9.0 | 9.0 | 36.6 | 17.2 | 10.0 | 19.4 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

MOC Clips to MOC Clips

MOC to MOC Transverse

| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Nominal Clip Dia. 2 (ND2) mm | Width (W) mm | Height (H) mm | Depth (D) mm | Center to Center mm | Drawing |
|-----------|-----------------|-------------------------------|------------------------------|--------------|---------------|--------------|---------------------|---|
| 156-02036 | MOC9FMOC10M180 | 9.0 | 10.0 | 39.0 | 17.2 | 10.0 | 20.4 |  |
| 156-02037 | MOC9FMOC12M180 | 9.0 | 12.0 | 41.5 | 18.9 | 10.0 | 21.3 | |
| 156-02038 | MOC9FMOC14M180 | 9.0 | 14.0 | 43.2 | 20.9 | 10.0 | 22.4 | |
| 156-02039 | MOC9FMOC16M180 | 9.0 | 16.0 | 45.2 | 22.9 | 12.0 | 23.4 | |
| 156-02040 | MOC9FMOC19M180 | 9.0 | 19.0 | 52.2 | 27.3 | 12.0 | 25.5 | |
| 156-02041 | MOC9FMOC22M180 | 9.0 | 22.0 | 55.9 | 30.5 | 12.0 | 27.0 | |
| 156-02042 | MOC9FMOC26M180 | 9.0 | 26.0 | 60.4 | 34.5 | 12.0 | 29.0 |  |
| 156-02055 | MOC10FMOC5M180 | 10.0 | 5.0 | 32.0 | 19.6 | 10.0 | 17.7 | |
| 156-02056 | MOC10FMOC6M180 | 10.0 | 6.0 | 33.2 | 19.6 | 10.0 | 18.3 | |
| 156-02057 | MOC10FMOC7M180 | 10.0 | 7.0 | 34.2 | 19.6 | 10.0 | 18.8 | |
| 156-02058 | MOC10FMOC8M180 | 10.0 | 8.0 | 36.4 | 19.6 | 10.0 | 19.6 | |
| 156-02059 | MOC10FMOC9M180 | 10.0 | 9.0 | 38.4 | 19.6 | 10.0 | 20.2 | |
| 156-02060 | MOC10FMOC10M180 | 10.0 | 10.0 | 40.8 | 19.6 | 10.0 | 21.1 |  |
| 156-02061 | MOC10FMOC12M180 | 10.0 | 12.0 | 43.2 | 19.6 | 10.0 | 22.1 | |
| 156-02062 | MOC10FMOC14M180 | 10.0 | 14.0 | 45.0 | 20.9 | 10.0 | 23.2 | |
| 156-02063 | MOC10FMOC16M180 | 10.0 | 16.0 | 46.9 | 22.9 | 12.0 | 24.1 | |
| 156-02064 | MOC10FMOC19M180 | 10.0 | 19.0 | 53.9 | 27.3 | 12.0 | 26.2 | |
| 156-02065 | MOC10FMOC22M180 | 10.0 | 22.0 | 57.6 | 30.5 | 12.0 | 27.7 | |
| 156-02204 | MOC10FMOC26M180 | 10.0 | 26.0 | 58.5 | 41.0 | 12.0 | 29.7 |  |
| 156-02079 | MOC12FMOC5M180 | 12.0 | 5.0 | 33.8 | 22.1 | 10.0 | 18.6 | |
| 156-02080 | MOC12FMOC6M180 | 12.0 | 6.0 | 35.1 | 22.1 | 10.0 | 19.3 | |
| 156-02081 | MOC12FMOC7M180 | 12.0 | 7.0 | 36.1 | 22.1 | 10.0 | 19.7 | |
| 156-02082 | MOC12FMOC8M180 | 12.0 | 8.0 | 38.2 | 22.1 | 10.0 | 20.6 | |
| 156-02083 | MOC12FMOC9M180 | 12.0 | 9.0 | 40.2 | 22.1 | 10.0 | 21.1 | |
| 156-02084 | MOC12FMOC10M180 | 12.0 | 10.0 | 42.6 | 22.1 | 10.0 | 22.1 |  |
| 156-02085 | MOC12FMOC12M180 | 12.0 | 12.0 | 45.1 | 22.1 | 10.0 | 23.0 | |
| 156-02086 | MOC12FMOC14M180 | 12.0 | 14.0 | 46.8 | 22.1 | 10.0 | 24.1 | |
| 156-02087 | MOC12FMOC16M180 | 12.0 | 16.0 | 48.8 | 22.9 | 12.0 | 25.1 | |
| 156-02088 | MOC12FMOC19M180 | 12.0 | 19.0 | 55.8 | 27.3 | 12.0 | 27.2 | |
| 156-02089 | MOC12FMOC22M180 | 12.0 | 22.0 | 59.5 | 30.5 | 12.0 | 28.7 | |
| 156-02090 | MOC12FMOC26M180 | 12.0 | 26.0 | 64.0 | 34.5 | 12.0 | 30.7 |  |
| 156-02103 | MOC14FMOC5M180 | 14.0 | 5.0 | 36.0 | 23.8 | 10.0 | 19.7 | |
| 156-02104 | MOC14FMOC6M180 | 14.0 | 6.0 | 37.2 | 23.8 | 10.0 | 20.3 | |
| 156-02105 | MOC14FMOC7M180 | 14.0 | 7.0 | 38.2 | 23.8 | 10.0 | 20.8 | |
| 156-02106 | MOC14FMOC8M180 | 14.0 | 8.0 | 40.4 | 23.8 | 10.0 | 21.6 | |
| 156-02107 | MOC14FMOC9M180 | 14.0 | 9.0 | 42.4 | 23.8 | 10.0 | 22.1 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Bundling and Securing

Bundle Separators

MOC Clips to MOC Clips

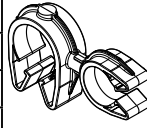
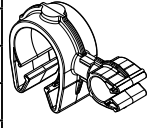
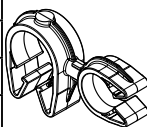
MOC to MOC Transverse

| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Nominal Clip Dia. 2 (ND2) mm | Width (W) mm | Height (H) mm | Depth (D) mm | Center to Center mm | Drawing |
|-----------|-----------------|-------------------------------|------------------------------|--------------|---------------|--------------|---------------------|---------|
| 156-02108 | MOC14FMOC10M180 | 14.0 | 10.0 | 44.8 | 23.8 | 10.0 | 23.1 | |
| 156-02109 | MOC14FMOC12M180 | 14.0 | 12.0 | 47.2 | 23.8 | 10.0 | 24.0 | |
| 156-02110 | MOC14FMOC14M180 | 14.0 | 14.0 | 49.0 | 23.8 | 10.0 | 25.2 | |
| 156-02111 | MOC14FMOC16M180 | 14.0 | 16.0 | 50.9 | 23.8 | 12.0 | 26.1 | |
| 156-02112 | MOC14FMOC19M180 | 14.0 | 19.0 | 57.9 | 27.3 | 12.0 | 28.2 | |
| 156-02113 | MOC14FMOC22M180 | 14.0 | 22.0 | 61.6 | 30.5 | 12.0 | 29.7 | |
| 156-02114 | MOC14FMOC26M180 | 14.0 | 26.0 | 66.1 | 34.5 | 12.0 | 31.7 | |
| 156-02127 | MOC16FMOC5M180 | 16.0 | 5.0 | 37.7 | 25.7 | 12.0 | 20.5 | |
| 156-02128 | MOC16FMOC6M180 | 16.0 | 6.0 | 39.0 | 25.7 | 12.0 | 21.3 | |
| 156-02129 | MOC16FMOC7M180 | 16.0 | 7.0 | 40.0 | 25.7 | 12.0 | 21.7 | |
| 156-02130 | MOC16FMOC8M180 | 16.0 | 8.0 | 42.1 | 25.7 | 12.0 | 22.4 | |
| 156-02131 | MOC16FMOC9M180 | 16.0 | 9.0 | 44.1 | 25.7 | 12.0 | 23.2 | |
| 156-02132 | MOC16FMOC10M180 | 16.0 | 10.0 | 46.5 | 25.7 | 12.0 | 24.1 | |
| 156-02133 | MOC16FMOC12M180 | 16.0 | 12.0 | 49.0 | 25.7 | 12.0 | 25.0 | |
| 156-02134 | MOC16FMOC14M180 | 16.0 | 14.0 | 50.7 | 25.7 | 12.0 | 26.2 | |
| 156-02135 | MOC16FMOC16M180 | 16.0 | 16.0 | 52.7 | 25.7 | 12.0 | 27.1 | |
| 156-02136 | MOC16FMOC19M180 | 16.0 | 19.0 | 59.6 | 27.3 | 12.0 | 29.2 | |
| 156-02137 | MOC16FMOC22M180 | 16.0 | 22.0 | 63.3 | 30.5 | 12.0 | 30.7 | |
| 156-02138 | MOC16FMOC26M180 | 16.0 | 26.0 | 67.9 | 34.5 | 12.0 | 32.7 | |
| 156-02151 | MOC19FMOC5M180 | 19.0 | 5.0 | 42.6 | 32.8 | 12.0 | 23.2 | |
| 156-02152 | MOC19FMOC6M180 | 19.0 | 6.0 | 43.8 | 32.8 | 12.0 | 23.9 | |
| 156-02153 | MOC19FMOC7M180 | 19.0 | 7.0 | 44.8 | 32.8 | 12.0 | 24.3 | |
| 156-02154 | MOC19FMOC8M180 | 19.0 | 8.0 | 47.0 | 32.8 | 12.0 | 25.2 | |
| 156-02155 | MOC19FMOC9M180 | 19.0 | 9.0 | 49.0 | 32.8 | 12.0 | 25.7 | |
| 156-02156 | MOC19FMOC10M180 | 19.0 | 10.0 | 51.4 | 32.8 | 12.0 | 27.5 | |
| 156-02157 | MOC19FMOC12M180 | 19.0 | 12.0 | 53.8 | 32.8 | 12.0 | 27.6 | |
| 156-02158 | MOC19FMOC14M180 | 19.0 | 14.0 | 55.6 | 32.8 | 12.0 | 28.7 | |
| 156-02159 | MOC19FMOC16M180 | 19.0 | 16.0 | 57.5 | 32.8 | 12.0 | 29.7 | |
| 156-02160 | MOC19FMOC19M180 | 19.0 | 19.0 | 64.5 | 32.8 | 12.0 | 31.8 | |
| 156-02161 | MOC19FMOC22M180 | 19.0 | 22.0 | 68.2 | 32.8 | 12.0 | 33.3 | |
| 156-02162 | MOC19FMOC26M180 | 19.0 | 26.0 | 72.7 | 34.5 | 12.0 | 35.3 | |
| 156-02175 | MOC22FMOC5M180 | 22.0 | 5.0 | 45.7 | 36.5 | 12.0 | 24.9 | |
| 156-02176 | MOC22FMOC6M180 | 22.0 | 6.0 | 47.0 | 36.5 | 12.0 | 25.5 | |
| 156-02177 | MOC22FMOC7M180 | 22.0 | 7.0 | 48.0 | 36.5 | 12.0 | 26.0 | |
| 156-02178 | MOC22FMOC8M180 | 22.0 | 8.0 | 50.1 | 36.5 | 12.0 | 26.8 | |
| 156-02179 | MOC22FMOC9M180 | 22.0 | 9.0 | 52.1 | 36.5 | 12.0 | 27.3 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

MOC Clips to MOC Clips

MOC to MOC Transverse

| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Nominal Clip Dia. 2 (ND2) mm | Width (W) mm | Height (H) mm | Depth (D) mm | Center to Center mm | Drawing |
|-----------|-----------------|-------------------------------|------------------------------|--------------|---------------|--------------|---------------------|---|
| 156-02180 | MOC22FMOC10M180 | 22.0 | 10.0 | 54.5 | 36.5 | 12.0 | 28.3 |  |
| 156-02181 | MOC22FMOC12M180 | 22.0 | 12.0 | 57.0 | 36.5 | 12.0 | 29.2 | |
| 156-02182 | MOC22FMOC14M180 | 22.0 | 14.0 | 58.7 | 36.5 | 12.0 | 30.3 | |
| 156-02183 | MOC22FMOC16M180 | 22.0 | 16.0 | 60.7 | 36.5 | 12.0 | 31.3 | |
| 156-02184 | MOC22FMOC19M180 | 22.0 | 19.0 | 67.6 | 36.5 | 12.0 | 33.4 | |
| 156-02185 | MOC22FMOC22M180 | 22.0 | 22.0 | 71.4 | 36.5 | 12.0 | 35.0 | |
| 156-02186 | MOC22FMOC26M180 | 22.0 | 26.0 | 75.9 | 36.5 | 12.0 | 36.9 |  |
| 156-02199 | MOC26FMOC5M180 | 26.0 | 5.0 | 49.7 | 41.0 | 12.0 | 26.9 | |
| 156-02200 | MOC26FMOC6M180 | 26.0 | 6.0 | 51.0 | 41.0 | 12.0 | 27.5 | |
| 156-02201 | MOC26FMOC7M180 | 26.0 | 7.0 | 52.0 | 41.0 | 12.0 | 28.0 | |
| 156-02202 | MOC26FMOC8M180 | 26.0 | 8.0 | 54.1 | 41.0 | 12.0 | 28.8 | |
| 156-02203 | MOC26FMOC9M180 | 26.0 | 9.0 | 56.1 | 41.0 | 12.0 | 29.3 | |
| 156-02066 | MOC26FMOC10M180 | 26.0 | 10.0 | 62.1 | 34.5 | 12.0 | 30.3 |  |
| 156-02205 | MOC26FMOC12M180 | 26.0 | 12.0 | 61.0 | 41.0 | 12.0 | 31.1 | |
| 156-02206 | MOC26FMOC14M180 | 26.0 | 14.0 | 62.7 | 41.0 | 12.0 | 32.4 | |
| 156-02207 | MOC26FMOC16M180 | 26.0 | 16.0 | 64.7 | 41.0 | 12.0 | 33.3 | |
| 156-02208 | MOC26FMOC19M180 | 26.0 | 19.0 | 71.7 | 41.0 | 12.0 | 35.5 | |
| 156-02209 | MOC26FMOC22M180 | 26.0 | 22.0 | 75.4 | 41.0 | 12.0 | 37.0 | |
| 156-02210 | MOC26FMOC26M180 | 26.0 | 26.0 | 79.9 | 41.0 | 12.0 | 38.9 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Bundling and Securing

Bundle Separators

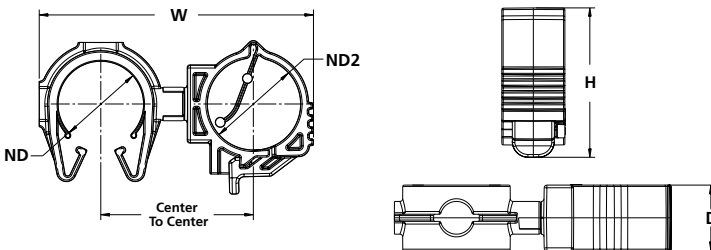
MOC Clips to LOC Clamps

MOC to LOC

Rotatable dual routing clip and clamp combination keeps two routings secured and separated. A swivel coupler allows them to rotate independently of each other.

Features and Benefits

- Patented retention design of clip features inverted retaining legs, narrow opening and circular retainer to prevent inadvertent disengagement.
- Clip and clamp both offer easy bundle installation.
- Independent rotation allows for adjustable routing orientation.
- Locking clamp dynamically fits a range of bundle sizes.



| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |

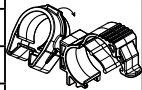


| ART NO. | TYPE | Nominal Clip Diameter (ND) mm | Nominal Clip Dia. 2 (ND2) mm | Width (W) mm | Height (H) mm | Depth (D) mm | Center to Center mm | Drawing |
|-----------|--------------|-------------------------------|------------------------------|--------------|---------------|--------------|---------------------|---------|
| 156-01827 | MOC5LOC5-9 | 5.0 | 5.0 - 9.0 | 35.1 | 23.6 | 12.0 | 20.7 | |
| 156-01851 | MOC5LOC10-14 | 5.0 | 10.0 - 14.0 | 39.1 | 27.4 | 12.0 | 22.9 | |
| 156-01875 | MOC5LOC15-19 | 5.0 | 15.0 - 19.0 | 39.8 | 33.4 | 12.0 | 25.2 | |
| 156-01899 | MOC5LOC20-25 | 5.0 | 20.0 - 25.0 | 48.9 | 38.9 | 12.0 | 28.2 | |
| 156-01829 | MOC6LOC5-9 | 6.0 | 5.0 - 9.0 | 36.3 | 23.6 | 12.0 | 21.2 | |
| 156-01853 | MOC6LOC10-14 | 6.0 | 10.0 - 14.0 | 40.4 | 27.4 | 12.0 | 23.4 | |
| 156-01877 | MOC6LOC15-19 | 6.0 | 15.0 - 19.0 | 41.1 | 33.4 | 12.0 | 25.7 | |
| 156-01902 | MOC6LOC20-25 | 6.0 | 20.0 - 25.0 | 50.2 | 38.9 | 12.0 | 28.8 | |
| 156-01831 | MOC7LOC5-9 | 7.0 | 5.0 - 9.0 | 37.2 | 23.6 | 12.0 | 21.7 | |
| 156-01855 | MOC7LOC10-14 | 7.0 | 10.0 - 14.0 | 41.3 | 27.4 | 12.0 | 23.9 | |
| 156-01879 | MOC7LOC15-19 | 7.0 | 15.0 - 19.0 | 42.0 | 33.4 | 12.0 | 26.2 | |
| 156-01904 | MOC7LOC20-25 | 7.0 | 20.0 - 25.0 | 51.1 | 38.9 | 12.0 | 29.3 | |
| 156-01833 | MOC8LOC5-9 | 8.0 | 5.0 - 9.0 | 38.5 | 23.6 | 12.0 | 22.2 | |
| 156-01857 | MOC8LOC10-14 | 8.0 | 10.0 - 14.0 | 42.6 | 27.4 | 12.0 | 24.5 | |
| 156-01881 | MOC8LOC15-19 | 8.0 | 15.0 - 19.0 | 43.3 | 33.4 | 12.0 | 26.7 | |
| 156-01614 | MOC8LOC20 | 8.0 | 20.0 - 25.0 | 52.4 | 38.9 | 12.0 | 29.7 | |
| 156-01835 | MOC9LOC5-9 | 9.0 | 5.0 - 9.0 | 39.6 | 23.6 | 12.0 | 22.7 | |
| 156-01859 | MOC9LOC10-14 | 9.0 | 10.0 - 14.0 | 43.7 | 27.4 | 12.0 | 25.0 | |
| 156-01883 | MOC9LOC15-19 | 9.0 | 15.0 - 19.0 | 44.4 | 33.4 | 12.0 | 27.4 | |
| 156-01908 | MOC9LOC20-25 | 9.0 | 20.0 - 25.0 | 53.5 | 38.9 | 12.0 | 30.4 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

MOC Clips to LOC Clamps

MOC to LOC

| ART NO. | TYPE | Nominal Clip Diameter (ND) mm | Nominal Clip Dia. 2 (ND2) mm | Width (W) mm | Height (H) mm | Depth (D) mm | Center to Center mm | Drawing |
|-----------|---------------|-------------------------------|------------------------------|--------------|---------------|--------------|---------------------|---|
| 156-01837 | MOC10LOC5-9 | 10.0 | 5.0 - 9.0 | 41.3 | 23.6 | 12.0 | 23.5 |  |
| 156-01861 | MOC10LOC10-14 | 10.0 | 10.0 - 14.0 | 45.4 | 27.4 | 12.0 | 25.5 | |
| 156-01885 | MOC10LOC15-19 | 10.0 | 15.0 - 19.0 | 46.1 | 33.4 | 12.0 | 27.9 | |
| 156-01910 | MOC10LOC20-25 | 10.0 | 20.0 - 25.0 | 55.2 | 38.9 | 12.0 | 30.9 | |
| 156-01839 | MOC12LOC5-9 | 12.0 | 5.0 - 9.0 | 43.2 | 23.6 | 12.0 | 24.4 | |
| 156-01863 | MOC12LOC10-14 | 12.0 | 10.0 - 14.0 | 47.3 | 27.4 | 12.0 | 26.4 | |
| 156-01887 | MOC12LOC15-19 | 12.0 | 15.0 - 19.0 | 48.0 | 33.4 | 12.0 | 29.0 | |
| 156-01912 | MOC12LOC20-25 | 12.0 | 20.0 - 25.0 | 57.1 | 38.9 | 12.0 | 31.9 | |
| 156-01841 | MOC14LOC5-9 | 14.0 | 5.0 - 9.0 | 45.1 | 23.8 | 12.0 | 25.5 | |
| 156-01865 | MOC14LOC10-14 | 14.0 | 10.0 - 14.0 | 49.2 | 27.4 | 12.0 | 27.5 | |
| 156-01889 | MOC14LOC15-19 | 14.0 | 15.0 - 19.0 | 49.9 | 33.4 | 12.0 | 29.9 | |
| 156-01914 | MOC14LOC20-25 | 14.0 | 20.0 - 25.0 | 59.0 | 38.9 | 12.0 | 32.9 | |
| 156-01843 | MOC16LOC5-9 | 16.0 | 5.0 - 9.0 | 47.1 | 25.7 | 12.0 | 26.2 | |
| 156-01867 | MOC16LOC10-14 | 16.0 | 10.0 - 14.0 | 51.2 | 27.4 | 12.0 | 28.2 | |
| 156-01891 | MOC16LOC15-19 | 16.0 | 15.0 - 19.0 | 51.9 | 33.4 | 12.0 | 30.8 | |
| 156-01916 | MOC16LOC20-25 | 16.0 | 20.0 - 25.0 | 61.0 | 38.9 | 12.0 | 33.7 | |
| 156-01845 | MOC19LOC5-9 | 19.0 | 5.0 - 9.0 | 50.7 | 32.8 | 12.0 | 29.0 | |
| 156-01869 | MOC19LOC10-14 | 19.0 | 10.0 - 14.0 | 54.8 | 32.8 | 12.0 | 31.0 | |
| 156-01893 | MOC19LOC15-19 | 19.0 | 15.0 - 19.0 | 55.5 | 33.4 | 12.0 | 33.5 | |
| 156-01918 | MOC19LOC20-25 | 19.0 | 20.0 - 25.0 | 64.6 | 38.9 | 12.0 | 36.5 | |
| 156-01847 | MOC22LOC5-9 | 22.0 | 5.0 - 9.0 | 52.1 | 36.5 | 12.0 | 30.6 | |
| 156-01871 | MOC22LOC10-14 | 22.0 | 10.0 - 14.0 | 56.2 | 36.5 | 12.0 | 32.6 | |
| 156-01895 | MOC22LOC15-19 | 22.0 | 15.0 - 19.0 | 56.9 | 36.5 | 12.0 | 35.0 | |
| 156-01920 | MOC22LOC20-25 | 22.0 | 20.0 - 25.0 | 66.0 | 38.9 | 12.0 | 38.1 | |
| 156-01849 | MOC26LOC5-9 | 26.0 | 5.0 - 9.0 | 59.1 | 41.0 | 12.0 | 32.7 | |
| 156-01873 | MOC26LOC10-14 | 26.0 | 10.0 - 14.0 | 63.2 | 41.0 | 12.0 | 34.7 | |
| 156-01897 | MOC26LOC15-19 | 26.0 | 15.0 - 19.0 | 63.9 | 41.0 | 12.0 | 37.0 | |
| 156-01922 | MOC26LOC20-25 | 26.0 | 20.0 - 25.0 | 73.0 | 41.0 | 12.0 | 40.1 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Bundling and Securing

Self-Affixing Cable Ties

MOC Cable Ties

Clip with Swivel Tie

Rotatable routing clip coupled to a cable tie that keeps two routings secured and separated. Tie provides additional security against axial slip by clamping around solid tube, pipe or harness. The swivel coupler allows the two routings to rotate independently of each other.

Features and Benefits

- Patented retention design on clip features inverted retaining legs, narrow opening and circular retainer to prevent inadvertent disengagement.
- Controlled flex and angled entry promote easy installation.
- Independent rotation allows for adjustable routing orientation.
- Cable tie accommodates wide range of secondary bundle sizes.



| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |



| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Max Tie Bundle Diameter mm | Clip Length (L) mm | Height (H) mm | Depth (D) mm | Center to Tie mm | Drawing |
|-----------|---------------|-------------------------------|----------------------------|--------------------|---------------|--------------|------------------|---------|
| 156-01773 | T50SMVCMOC5M | 5.0 | 50.0 | 15.6 | 22.8 | 10.0 | 12.7 | |
| 156-01774 | T50SMVCMOC6M | 6.0 | 50.0 | 18.4 | 24.0 | 10.0 | 13.5 | |
| 156-01775 | T50SMVCMOC7M | 7.0 | 50.0 | 18.9 | 25.4 | 10.0 | 14.0 | |
| 156-01657 | T50SMVCMOC8 | 8.0 | 50.0 | 20.5 | 17.2 | 10.0 | 14.8 | |
| 156-01722 | T50SMVCMOC9M | 9.0 | 50.0 | 22.3 | 29.2 | 10.0 | 15.4 | |
| 156-01776 | T50SMVCMOC10M | 10.0 | 50.0 | 24.2 | 31.6 | 10.0 | 16.3 | |
| 156-01777 | T50SMVCMOC12M | 12.0 | 50.0 | 26.2 | 34.1 | 10.0 | 17.3 | |
| 156-01778 | T50SMVCMOC14M | 14.0 | 50.0 | 28.2 | 35.8 | 10.0 | 18.4 | |
| 156-01656 | T50SMVCMOC16 | 16.0 | 50.0 | 30.2 | 37.5 | 12.0 | 19.2 | |
| 156-01779 | T50SMVCMOC19M | 19.0 | 50.0 | 34.6 | 44.8 | 12.0 | 21.4 | |
| 156-01780 | T50SMVCMOC22M | 22.0 | 50.0 | 37.8 | 48.5 | 12.0 | 22.9 | |
| 156-01781 | T50SMVCMOC26M | 26.0 | 50.0 | 48.3 | 53.0 | 12.0 | 24.9 | |
| 156-02239 | T50SVMOC5M | 5.0 | 35.0 | 15.6 | 22.8 | 10.0 | 12.7 | |
| 156-02240 | T50SVMOC6M | 6.0 | 35.0 | 18.4 | 24.0 | 10.0 | 13.5 | |
| 156-02241 | T50SVMOC7M | 7.0 | 35.0 | 18.9 | 25.4 | 10.0 | 14.0 | |
| 156-02242 | T50SVMOC8M | 8.0 | 35.0 | 24.2 | 17.2 | 10.0 | 14.6 | |
| 156-02243 | T50SVMOC9M | 9.0 | 35.0 | 22.3 | 29.2 | 10.0 | 15.4 | |
| 156-02244 | T50SVMOC10M | 10.0 | 35.0 | 24.2 | 31.6 | 10.0 | 16.3 | |
| 156-02245 | T50SVMOC12M | 12.0 | 35.0 | 26.2 | 34.1 | 10.0 | 17.3 | |
| 156-01658 | T50SVMOC14M | 14.0 | 35.0 | 28.2 | 35.8 | 10.0 | 18.4 | |
| 156-01667 | T50SVMOC16M | 16.0 | 35.0 | 30.2 | 37.5 | 12.0 | 19.3 | |
| 156-02246 | T50SVMOC19M | 19.0 | 35.0 | 34.6 | 44.8 | 12.0 | 21.4 | |
| 156-02247 | T50SVMOC22M | 22.0 | 35.0 | 37.8 | 48.5 | 12.0 | 22.9 | |
| 156-02248 | T50SVMOC26M | 26.0 | 35.0 | 48.3 | 53.0 | 12.0 | 24.9 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

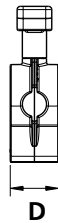
MOC Cable Ties

Transverse Clip with Swivel Tie

Rotatable routing clips are coupled to cable ties to keep two routings secured and separated. Tie provides additional security against axial slip by clamping around solid tube, pipe or harness. The clip's orientation allows the second routing to be assembled in the direction of the first routing. The swivel coupler allows the two routings to rotate independently of each other.

Features and Benefits

- Patented retention design on clip features inverted retaining legs, narrow opening and circular retainer to prevent inadvertent disengagement.
- Controlled flex and angled entry promote easy installation.
- Independent rotation allows for adjustable routing orientation.
- Cable tie accommodates wide range of secondary bundle sizes.



| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |



| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Max Tie Bundle Diameter mm | Clip Length (L) mm | Height (H) mm | Depth (D) mm | Center to Tie mm | Drawing |
|-----------|------------------|-------------------------------|----------------------------|--------------------|---------------|--------------|------------------|---------|
| 156-01782 | T50SMVCMOC5M180 | 5.0 | 50.0 | 8.3 | 25.6 | 10.0 | 12.7 | |
| 156-01783 | T50SMVCMOC6M180 | 6.0 | 50.0 | 11.1 | 28.4 | 10.0 | 13.5 | |
| 156-01784 | T50SMVCMOC7M180 | 7.0 | 50.0 | 11.6 | 28.9 | 10.0 | 14.0 | |
| 156-01785 | T50SMVCMOC8M180 | 8.0 | 50.0 | 13.2 | 30.5 | 10.0 | 14.6 | |
| 156-01786 | T50SMVCMOC9M180 | 9.0 | 50.0 | 15.0 | 32.3 | 10.0 | 15.4 | |
| 156-01787 | T50SMVCMOC10M180 | 10.0 | 50.0 | 16.9 | 34.2 | 10.0 | 16.3 | |
| 156-01788 | T50SMVCMOC12M180 | 12.0 | 50.0 | 18.9 | 36.2 | 10.0 | 17.3 | |
| 156-01789 | T50SMVCMOC14M180 | 14.0 | 50.0 | 20.9 | 38.2 | 10.0 | 18.4 | |
| 156-01751 | T50SMVCMOC16M180 | 16.0 | 50.0 | 30.2 | 40.2 | 12.0 | 19.3 | |
| 156-01790 | T50SMVCMOC19M180 | 19.0 | 50.0 | 27.3 | 44.6 | 12.0 | 21.4 | |
| 156-01791 | T50SMVCMOC22M180 | 22.0 | 50.0 | 30.5 | 47.8 | 12.0 | 22.9 | |
| 156-01792 | T50SMVCMOC26M180 | 26.0 | 50.0 | 34.5 | 51.8 | 12.0 | 24.9 | |
| 156-02249 | T50SVMCMOC5M180 | 5.0 | 35.0 | 8.3 | 25.6 | 10.0 | 12.7 | |
| 156-02250 | T50SVMCMOC6M180 | 6.0 | 35.0 | 11.1 | 28.4 | 10.0 | 13.5 | |
| 156-02251 | T50SVMCMOC7M180 | 7.0 | 35.0 | 11.6 | 28.9 | 10.0 | 14.0 | |
| 156-02252 | T50SVMCMOC8M180 | 8.0 | 35.0 | 13.2 | 30.5 | 10.0 | 14.6 | |
| 156-02253 | T50SVMCMOC9M180 | 9.0 | 35.0 | 13.2 | 32.3 | 10.0 | 15.4 | |
| 156-02254 | T50SVMCMOC10M180 | 10.0 | 35.0 | 16.9 | 34.2 | 10.0 | 16.3 | |
| 156-02255 | T50SVMCMOC12M180 | 12.0 | 35.0 | 18.9 | 36.2 | 10.0 | 17.3 | |
| 156-02256 | T50SVMCMOC14M180 | 14.0 | 35.0 | 20.9 | 38.2 | 10.0 | 18.4 | |
| 156-02257 | T50SVMCMOC16M180 | 16.0 | 35.0 | 22.9 | 40.2 | 12.0 | 19.3 | |
| 156-02258 | T50SVMCMOC19M180 | 19.0 | 35.0 | 27.3 | 44.6 | 12.0 | 21.4 | |
| 156-02259 | T50SVMCMOC22M180 | 22.0 | 35.0 | 30.5 | 47.8 | 12.0 | 22.9 | |
| 156-02260 | T50SVMCMOC26M180 | 26.0 | 35.0 | 34.5 | 51.8 | 12.0 | 24.9 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Bundling and Securing

Self-Affixing Cable Ties

LOC Cable Ties

Clamp with Swivel Tie

Rotatable routing clamps are coupled to cable ties to keep two routings secured and separated. Tie provides additional security against axial slip by clamping around solid tube, pipe or harness. The swivel coupler allows the two routings to rotate independently of each other.

Features and Benefits

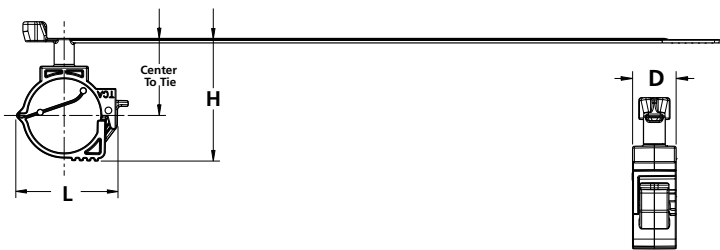
- The 360-degree locking enclosure and cable tie dynamically fit a range of bundle sizes.
- Clamp can be opened for bundle maintenance.
- Low-profile release tab won't interfere with bundle or nearby routing.
- Independent rotation allows for adjustable routing orientation.



| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |

HF ✓

RoHS ✓



| PART NO. | TYPE | Nominal Clamp Diameter (ND) mm | Max Tie Bundle Diameter mm | Clamp Length (L) mm | Height (H) mm | Depth (D) mm | Center to Tie mm | Drawing |
|-----------|-----------------|--------------------------------|----------------------------|---------------------|---------------|--------------|------------------|---------|
| 156-02384 | T50SMVCLOC5-9 | 5.0 - 9.0 | 50.0 | 23.7 | 23.6 | 12.0 | 18.6 | |
| 156-02594 | T50SMVCLOC10-14 | 10.0 - 14.0 | 50.0 | 27.6 | 27.4 | 12.0 | 20.6 | |
| 156-01690 | T50SMVCLOC15-19 | 15.0 - 19.00 | 50.0 | 31.6 | 33.4 | 12.0 | 23.0 | |
| 156-01714 | T50SMVCLOC20-25 | 20.0 - 25.0 | 50.0 | 37.2 | 38.9 | 12.0 | 26.0 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

MOC Cable Ties

Two-Piece Unassembled Clip Set

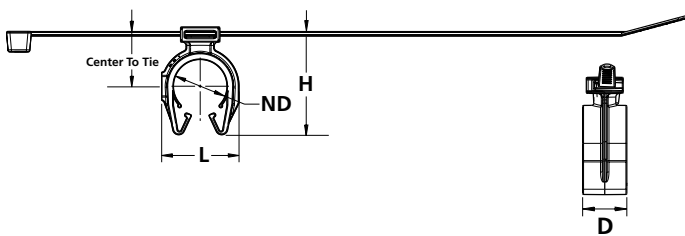
Two-piece design keeps two routings secured together while providing a fixed orientation for each bundle. The bi-directional saddle design allows the bundles to be coupled parallel or perpendicular to one another. Tie provides additional security against axial slip by clamping around solid tube, pipe or harness.

Features and Benefits

- Patented retention design on clip features inverted retaining legs, narrow opening and circular retainer to prevent inadvertent disengagement.
- Controlled flex and angled entry promote easy installation.
- Fixed connector controls routing orientation.
- Cable tie accommodates wide range of secondary bundle sizes.

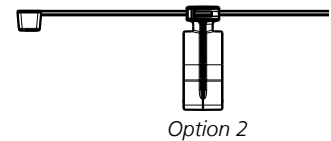
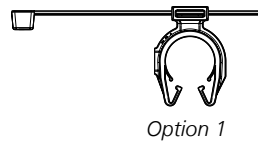


| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |



HF ✓

RoHS ✓



| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Max Tie Bundle Diameter mm | Clip Length (L) mm | Height (H) mm | Depth (D) mm | Center to Tie mm | Drawing |
|-----------|------------------|-------------------------------|----------------------------|--------------------|---------------|--------------|------------------|---------|
| 156-01811 | T50RMOC5SAD-SET | 5.0 | 50.0 | 8.3 | 17.0 | 10.0 | 11.0 | |
| 156-01812 | T50RMOC6SAD-SET | 6.0 | 50.0 | 11.1 | 17.9 | 10.0 | 11.5 | |
| 156-01813 | T50RMOC7SAD-SET | 7.0 | 50.0 | 11.6 | 19.4 | 10.0 | 12.2 | |
| 156-01814 | T50RMOC8SAD-SET | 8.0 | 50.0 | 13.2 | 20.9 | 10.0 | 12.6 | |
| 156-01661 | T50RMOC9SAD-SET | 9.0 | 50.0 | 15.0 | 23.4 | 10.0 | 15.4 | |
| 156-01815 | T50RMOC10SAD-SET | 10.0 | 50.0 | 16.9 | 25.8 | 10.0 | 14.6 | |
| 156-01816 | T50RMOC12SAD-SET | 12.0 | 50.0 | 18.9 | 28.2 | 10.0 | 15.5 | |
| 156-01817 | T50RMOC14SAD-SET | 14.0 | 50.0 | 20.9 | 30.0 | 10.0 | 16.6 | |
| 156-01818 | T50RMOC16SAD-SET | 16.0 | 50.0 | 22.9 | 31.9 | 12.0 | 17.5 | |
| 156-01819 | T50RMOC19SAD-SET | 19.0 | 50.0 | 27.3 | 27.3 | 12.0 | 19.7 | |
| 156-01820 | T50RMOC22SAD-SET | 22.0 | 50.0 | 30.5 | 42.6 | 12.0 | 21.2 | |
| 156-01821 | T50RMOC26SAD-SET | 26.0 | 50.0 | 34.5 | 47.1 | 12.0 | 23.2 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Bundling and Securing

Self-Affixing Cable Ties

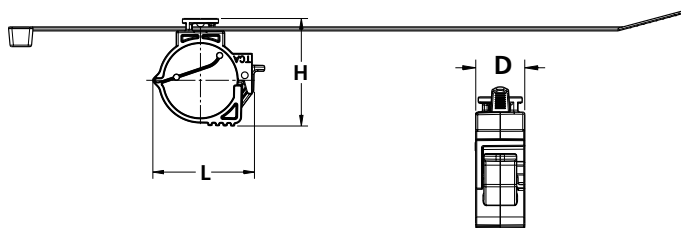
LOC Cable Ties

Two-Piece Unassembled Clamp Set

Two-piece design keeps two routings secured together while providing a semi-fixed orientation for each bundle. The saddle design allows 90-degree rotation of the bundles. T50R tie provides additional security against axial slip by clamping around solid tube, pipe or harness.

Features and Benefits

- The 360-degree locking enclosure and cable tie dynamically fit a range of bundle sizes.
- Clamp can be opened for bundle maintenance.
- Low-profile release tab won't interfere with bundle or nearby routing.
- The two bundles are allowed to rotate up to 90 degrees from one another.



| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |

HF ✓

RoHS ✓

| PART NO. | TYPE | Nominal Clamp Diameter mm | Max Tie Bundle Diameter mm | Clamp Length (L) mm | Height (H) mm | Depth (D) mm | Center to Tie mm | Drawing |
|-----------|------------------|---------------------------|----------------------------|---------------------|---------------|--------------|------------------|---------|
| 156-01289 | T50RLOC5-9-SET | 5.0 - 9.0 | 50.0 | 23.7 | 23.6 | 12.0 | 18.6 | |
| 156-01092 | T50RLOC10-14-SET | 10.0 - 14.0 | 50.0 | 27.6 | 27.4 | 12.0 | 20.6 | |
| 156-01292 | T50RLOC15-19-SET | 15.0 - 19.00 | 50.0 | 31.6 | 33.4 | 12.0 | 23.0 | |
| 156-01564 | T50RLOC20-25SET | 20.0 - 25.0 | 50.0 | 37.2 | 38.9 | 12.0 | 26.0 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

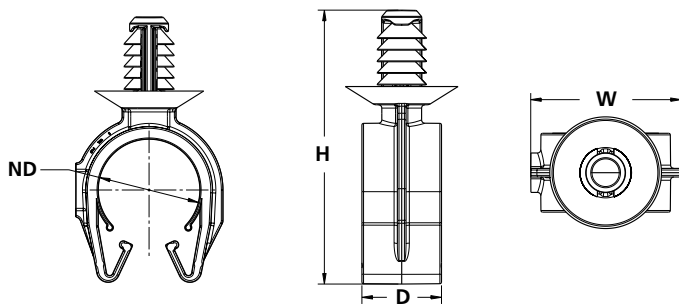
MOC Clips with Fir Tree

Clip with Round Fir Tree

MOC with Round Fir Tree features HellermannTyton's unique retention clip with an integrated fir tree to fit securely in a 6.5 (+/-0.4) mm hole. The mount delivers a low insertion force while exhibiting high extraction resistance for a secure mounting point against a panel.

Features and Benefits

- Patented retention design features inverted retaining legs, narrow opening and circular retainer to prevent inadvertent disengagement.
- Controlled flex and angled entry promote easy installation.
- Fir tree demonstrates easy insertion with high extraction resistance.



| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |



| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Panel Hole Size mm | Panel Thickness mm | Width (W) mm | Height (H) mm | Depth (D) mm | Drawings |
|-----------|------------|-------------------------------|---------------------------------|--------------------|--------------|---------------|--------------|----------|
| 151-02083 | MOC5FT6.5 | 5.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 17.0 | 26.3 | 10.0 | |
| 151-01713 | MOC6FT6.5 | 6.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 17.0 | 27.8 | 10.0 | |
| 151-01722 | MOC7FT6.5 | 7.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 17.0 | 29.1 | 10.0 | |
| 151-01731 | MOC8FT6.5 | 8.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 17.0 | 31.1 | 10.0 | |
| 151-01740 | MOC9FT6.5 | 9.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 17.0 | 33.1 | 10.0 | |
| 151-01749 | MOC10FT6.5 | 10.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 17.0 | 35.4 | 10.0 | |
| 151-01758 | MOC12FT6.5 | 12.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 18.8 | 37.9 | 10.0 | |
| 151-01768 | MOC14FT6.5 | 14.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 20.9 | 39.3 | 10.0 | |
| 151-01778 | MOC16FT6.5 | 16.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 22.9 | 41.3 | 12.0 | |
| 151-01788 | MOC19FT6.5 | 19.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 27.3 | 48.5 | 12.0 | |
| 151-01798 | MOC22FT6.5 | 22.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 30.5 | 52.0 | 12.0 | |
| 151-01828 | MOC26FT6.5 | 26.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 5.5 | 34.5 | 56.7 | 12.0 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Bundling and Securing

Self-Affixing Clips

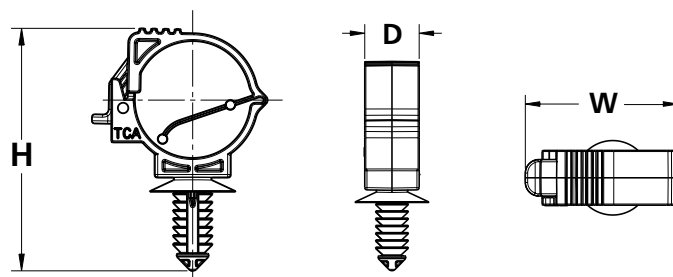
LOC Clamps with Fir Tree

Clamp with Round Fir Tree

LOC with Round Fir Tree features HellermannTyton's unique retention clamp attached to a 6.5 mm fir tree. The mount delivers a low insertion force while exhibiting high extraction resistance for a secure mounting point against a panel.

Features and Benefits

- The 360-degree locking enclosure dynamically fits a range of bundle sizes.
- Clamp can be opened for bundle maintenance.
- Low-profile release tab won't interfere with bundle or nearby routing.
- Fir tree demonstrates easy insertion with high extraction resistance.



| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |



| PART NO. | TYPE | Nominal Clamp Diameter mm | Panel Hole Size mm | Panel Thickness mm | Width (W) mm | Height (H) mm | Depth (D) mm | Drawing |
|-----------|-----------------|---------------------------|---------------------------------|--------------------|--------------|---------------|--------------|---------|
| 151-01017 | LOC59FT6LG | 5.0 - 9.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 8.3 | 23.7 | 37.1 | 12.0 | |
| 151-01166 | LOC1014FT6LG | 10.0 - 14.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 8.3 | 27.6 | 41.7 | 12.0 | |
| 151-01022 | LOC15-19FT6LG | 15.0 - 19.00 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 8.3 | 31.6 | 47.5 | 12.0 | |
| 151-01371 | LOC20-25FT6.5LG | 20.0 - 25.0 | 6.35 (hexagonal), 6.5 (+/- 0.4) | 0.6 - 8.3 | 37.2 | 53.6 | 12.0 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

MOC Clips with Fir Tree

Clip with Oval Fir Tree

MOC with Oval Fir Tree features HellermannTyton's unique retention clip attached to a 4x oval fir tree that will not rotate in the mounting hole. The mount delivers a low insertion force while exhibiting high extraction resistance for a secure mounting point against a panel. This one design exceeds automotive requirements for the four most common oval sizes: 6.2x12.2 mm, 6.5x12.5 mm, 6.5x13 mm and 7x12 mm.

Features and Benefits

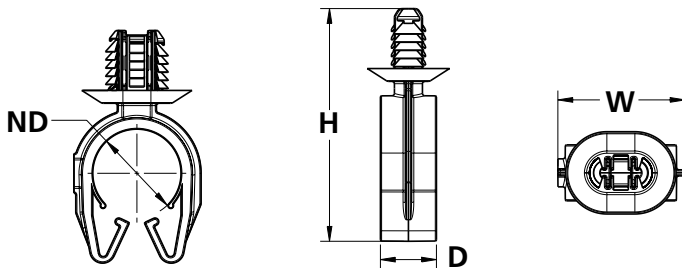
- Patented retention design features inverted retaining legs, narrow opening and circular retainer to prevent inadvertent disengagement.
- Controlled flex and angled entry promote easy installation.
- Non-rotating fir tree demonstrates easy insertion with high extraction resistance.



| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |

HF ✓

RoHS ✓



| PART NO. | TYPE | Nominal Clip Diameter (ND) mm | Panel Hole Size mm | Panel Thickness mm | Width (W) mm | Height (H) mm | Depth (D) mm | Drawing |
|-----------|-------------|-------------------------------|--|--------------------|--------------|---------------|--------------|---------|
| 151-01759 | MOC12FTOVAL | 12.0 | 6.2 x 12.2, 6.5 x 12.5, 6.5 x 13.0, 7.0 x 12.0 | 0.6 - 6.8 | 23.6 | 39.5 | 10.0 | |
| 151-01769 | MOC14FTOVAL | 14.0 | 6.2 x 12.2, 6.5 x 12.5, 6.5 x 13.0, 7.0 x 12.0 | 0.6 - 6.8 | 23.6 | 40.9 | 10.0 | |
| 151-01779 | MOC16FTOVAL | 16.0 | 6.2 x 12.2, 6.5 x 12.5, 6.5 x 13.0, 7.0 x 12.0 | 0.6 - 6.8 | 23.6 | 42.6 | 12.0 | |
| 151-01789 | MOC19FTOVAL | 19.0 | 6.2 x 12.2, 6.5 x 12.5, 6.5 x 13.0, 7.0 x 12.0 | 0.6 - 6.8 | 27.2 | 49.9 | 12.0 | |
| 151-01799 | MOC22FTOVAL | 22.0 | 6.2 x 12.2, 6.5 x 12.5, 6.5 x 13.0, 7.0 x 12.0 | 0.6 - 6.8 | 30.5 | 53.3 | 12.0 | |
| 151-01829 | MOC26FTOVAL | 26.0 | 6.2 x 12.2, 6.5 x 12.5, 6.5 x 13.0, 7.0 x 12.0 | 0.6 - 6.8 | 34.5 | 58.1 | 12.0 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Bundling and Securing

Self-Affixing Clips

LOC Clamps with Fir Tree

Clamp with Oval Fir Tree

LOC with Oval Fir Tree features HellermannTyton's unique retention clamp attached to a 4x oval fir tree that will not rotate in the mounting hole. The mount delivers a low insertion force while exhibiting high extraction resistance for a secure mounting point against a panel. This one design exceeds automotive requirements for the four most common oval sizes: 6.2x12.2 mm, 6.5x12.5 mm, 6.5x13 mm and 7x12 mm.

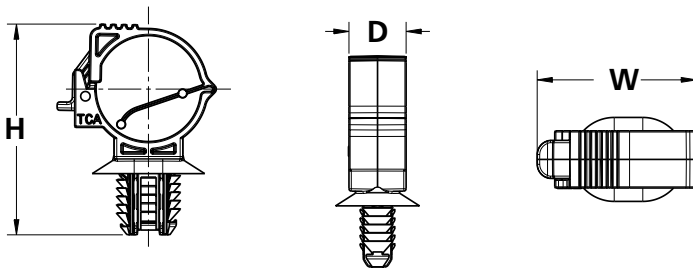
Features and Benefits

- The 360-degree locking enclosure dynamically fits a range of bundle sizes.
- Clamp can be opened for bundle maintenance.
- Low-profile release tab won't interfere with bundle or nearby routing.
- Non-rotating fir tree demonstrates easy insertion with high extraction resistance.



| | |
|------------------------------|--|
| MATERIAL | Polyamide 6.6 high impact modified, heat and UV stabilized (PA66HIRHSUV) |
| Operating Temperature | -40°F to +230°F (-40°C to +110°C) |
| Flammability | UL 94 HB |

HF ✓ RoHS ✓



| PART NO. | TYPE | Nominal Clamp Diameter mm | Panel Hole Size mm | Panel Thickness mm | Width (W) mm | Height (H) mm | Depth (D) mm | Drawing |
|-----------|----------------|---------------------------|--|--------------------|--------------|---------------|--------------|---------|
| 151-01306 | LOC5-9FTOVAL | 5.0 - 9.0 | 6.2 x 12.2, 6.5 x 12.5, 6.5 x 13.0, 7.0 x 12.0 | 0.6 - 6.8 | 25.5 | 34.2 | 12.0 | |
| 151-02552 | LOC10-14FTOVAL | 10.0 - 14.0 | 6.2 x 12.2, 6.5 x 12.5, 6.5 x 13.0, 7.0 x 12.0 | 0.6 - 6.8 | 27.6 | 43.5 | 12.0 | |
| 151-01049 | LOC15-19FTOVAL | 15.0 - 19.00 | 6.2 x 12.2, 6.5 x 12.5, 6.5 x 13.0, 7.0 x 12.0 | 0.6 - 6.8 | 31.6 | 49.5 | 12.0 | |
| 151-02536 | LOC20-25FTOVAL | 20.0 - 25.0 | 6.2 x 12.2, 6.5 x 12.5, 6.5 x 13.0, 7.0 x 12.0 | 0.6 - 5.5 | 37.2 | 55.5 | 12.0 | |

Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

We designed over 300 configurations. Still not enough?
Go configure!

Our modular design lets you create the perfect solution for your application.



Have three routings and need to mount them?



Build a configuration with an oval fir tree.

Need a way to accommodate four routings?



Add a swivel tie.

With the MOC, you get endless possibilities.
Versatile. Secure. ***That's MOC.***



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