



Cable Ties with Ball-Lock

MBT-Series, Stainless Steel 304

Metal ties are ideal for all applications that require high strength, reliability and fire resistance. The MBT range of stainless steel cable ties can be used in chemical industries and on oil platforms as well as in mass transit, shipbuilding and mining industries. MBT ties are also suitable for machine building, apparatus construction and in the outside area of radio technology. Additionally, MBT ties are ideal for securing lighting in theatres and exhibition halls.

Features and Benefits

- MBT cable ties made from stainless steel 304
- Patented non-releasable locking feature
- Corrosion resistant
- Weather resistant
- Outstanding chemical resistance
- High temperature resistance
- Non-burning



Stainless Steel Cable Ties, uncoated, MBT_SS, MBT_HS.



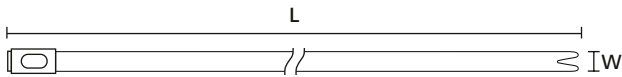
Stainless Steel Cable Ties, uncoated, MBT_XHS.



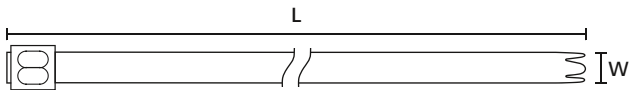
Patented



Material specification please see page 24.



MBT-Series 4.6 mm and 7.9 mm width



MBT-Series 12.3 mm width



The MBT-Series (up to 7.9 mm) can be used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixing solution. Please see page 143.

| TYPE | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | | Material | Pack Cont. | Tools | Article-No. |
|----------|-----------|------------|---------------|---------------|-------|----------|------------|-------|-------------|
| MBT5SS | 4.6 | 127.0 | 12.0 | 25.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93058 |
| MBT8SS | 4.6 | 201.0 | 17.0 | 50.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93088 |
| MBT14SS | 4.6 | 362.0 | 17.0 | 102.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93148 |
| MBT20SS | 4.6 | 521.0 | 17.0 | 152.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93208 |
| MBT27SS | 4.6 | 685.0 | 17.0 | 203.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93278 |
| MBT33SS | 4.6 | 838.0 | 17.0 | 254.0 | 900 | SS304 | 100 pcs. | 15-18 | 111-93338 |
| MBT8HS | 7.9 | 201.0 | 17.0 | 50.0 | 2,000 | SS304 | 50 pcs. | 15-18 | 111-94088 |
| MBT14HS | 7.9 | 362.0 | 17.0 | 102.0 | 2,000 | SS304 | 50 pcs. | 15-18 | 111-94148 |
| MBT20HS | 7.9 | 521.0 | 17.0 | 152.0 | 2,000 | SS304 | 50 pcs. | 15-18 | 111-94208 |
| MBT27HS | 7.9 | 685.0 | 17.0 | 203.0 | 2,000 | SS304 | 50 pcs. | 15-18 | 111-94278 |
| MBT33HS | 7.9 | 838.0 | 17.0 | 254.0 | 2,000 | SS304 | 50 pcs. | 15-18 | 111-94338 |
| MBT14XHS | 12.3 | 362.0 | 17.0 | 102.0 | 2,700 | SS304 | 50 pcs. | 15-18 | 111-95148 |
| MBT20XHS | 12.3 | 521.0 | 17.0 | 152.0 | 2,700 | SS304 | 50 pcs. | 15-18 | 111-95208 |
| MBT27XHS | 12.3 | 681.0 | 17.0 | 203.0 | 2,700 | SS304 | 50 pcs. | 15-18 | 111-95278 |
| MBT33XHS | 12.3 | 838.0 | 17.0 | 254.0 | 2,700 | SS304 | 50 pcs. | 15-18 | 111-95338 |

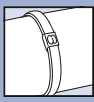
All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommended Tools

| | | | |
|--------|---------|-------|------------|
| 15 | 16 | 17 | 18 |
| MK9SST | MK9PSST | HDT16 | KST-STG200 |

For more information on toolings please refer to the Application Tooling chapter.



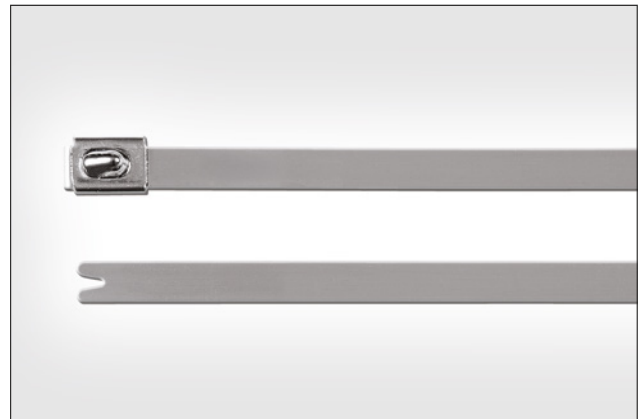
Cable Ties with Ball-Lock

MBT-Series, Stainless Steel 316

Metal ties are ideal for all applications that require high strength, reliability and fire resistance. The MBT range of stainless steel cable ties can be used in chemical industries and on oil platforms as well as in mass transit, shipbuilding and mining industries. MBT ties are also suitable for machine building, apparatus construction and in the outside area of radio technology. Additionally, MBT ties are ideal for securing lighting in theatres and exhibition halls.

Features and Benefits

- MBT cable ties made from stainless steel 316
- Patented non-releasable locking feature
- Corrosion resistant
- Weather resistant
- Outstanding chemical resistance
- Antimagnetic
- High temperature resistance
- Non-burning



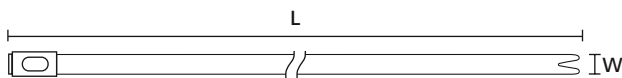
Stainless Steel Cable Ties, uncoated, MBT_S, MBT_H.



Patented



The MBT-Series (up to 7.9 mm) can be used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixing solution. Please see page 143.



MBT-Series 4.6 mm and 7.9 mm width

| TYPE | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | | Material | Pack Cont. | Tools | Article-No. |
|--------|-----------|------------|---------------|---------------|-------|----------|------------|-------|-------------|
| MBT5S | 4.6 | 127.0 | 12.0 | 25.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93059 |
| MBT8S | 4.6 | 201.0 | 12.0 | 50.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93089 |
| MBT14S | 4.6 | 362.0 | 12.0 | 102.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93149 |
| MBT20S | 4.6 | 521.0 | 12.0 | 152.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93209 |
| MBT27S | 4.6 | 685.0 | 12.0 | 203.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93279 |
| MBT33S | 4.6 | 838.0 | 12.0 | 254.0 | 900 | SS316 | 100 pcs. | 15-18 | 111-93339 |
| MBT8H | 7.9 | 201.0 | 12.0 | 50.0 | 2,000 | SS316 | 50 pcs. | 15-18 | 111-94089 |
| MBT14H | 7.9 | 362.0 | 12.0 | 102.0 | 2,000 | SS316 | 50 pcs. | 15-18 | 111-94149 |
| MBT20H | 7.9 | 521.0 | 12.0 | 152.0 | 2,000 | SS316 | 50 pcs. | 15-18 | 111-94209 |
| MBT27H | 7.9 | 685.0 | 12.0 | 203.0 | 2,000 | SS316 | 50 pcs. | 15-18 | 111-94279 |
| MBT33H | 7.9 | 838.0 | 12.0 | 254.0 | 2,000 | SS316 | 50 pcs. | 15-18 | 111-94339 |

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Recommended Tools | | | |
|-------------------|---------|-------|------------|
| 15 | 16 | 17 | 18 |
| MK9SST | MK9PSST | HDT16 | KST-STG200 |

For more information on toolings please refer to the Application Tooling chapter.

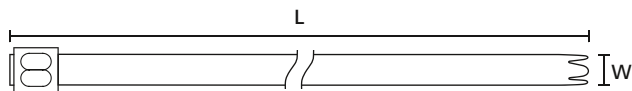


For product specific approvals and specifications please refer to the Appendix.

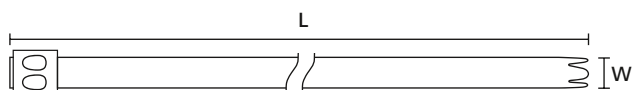


Cable Ties with Ball-Lock

MBT-Series, Stainless Steel 316



MBT-Series 12.3 mm width



MBT-Series 16.0 mm width



**Material specification
please see page 24.**

| TYPE | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | | Material | Pack Cont. | Tools | Article-No. |
|---------|-----------|------------|---------------|---------------|-------|----------|------------|-------|-------------|
| MBT14XH | 12.3 | 362.0 | 12.0 | 102.0 | 2,700 | SS316 | 50 pcs. | 15-18 | 111-95149 |
| MBT20XH | 12.3 | 521.0 | 12.0 | 152.0 | 2,700 | SS316 | 50 pcs. | 15-18 | 111-95209 |
| MBT27XH | 12.3 | 681.0 | 12.0 | 203.0 | 2,700 | SS316 | 50 pcs. | 15-18 | 111-95279 |
| MBT33XH | 12.3 | 838.0 | 12.0 | 254.0 | 2,700 | SS316 | 50 pcs. | 15-18 | 111-95339 |
| MBT14UH | 16.0 | 362.0 | 12.0 | 102.0 | 4,100 | SS316 | 50 pcs. | 15;17 | 111-01301 |
| MBT20UH | 16.0 | 521.0 | 12.0 | 152.0 | 4,100 | SS316 | 50 pcs. | 15;17 | 111-01302 |
| MBT27UH | 16.0 | 681.0 | 12.0 | 203.0 | 4,100 | SS316 | 50 pcs. | 15;17 | 111-01303 |
| MBT33UH | 16.0 | 838.0 | 12.0 | 254.0 | 4,100 | SS316 | 50 pcs. | 15;17 | 111-01304 |
| MBT43UH | 16.0 | 1,092.0 | 12.0 | 330.0 | 4,100 | SS316 | 25 pcs. | 15;17 | 111-01305 |
| MBT49UH | 16.0 | 1,245.0 | 12.0 | 380.0 | 4,100 | SS316 | 25 pcs. | 15;17 | 111-01306 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

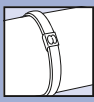
Recommended Tools

| | | | |
|--------|---------|-------|------------|
| 15 | 16 | 17 | 18 |
| MK9SST | MK9PSST | HDT16 | KST-STG200 |

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



Double Wrap Cable Ties with Ball-Lock

MBTXHD- / MBTUHD-Series, Stainless Steel 316

The double wrap ties of the MBT-series are used in applications where a fixing requires an extraordinary high tensile strength.

Features and Benefits

- Stainless steel MBT ties with double wrap operation
- Wraps around the bundle and passes through the head twice
- Very high tensile strength to carry enormous applied loads
- Head with two locking balls
- Resistant to arduous conditions and environments



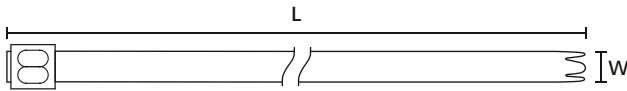
Double wrap Stainless Steel Cable Ties, uncoated, MBT_UHD.



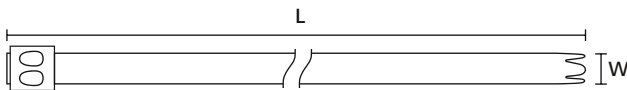
Patented



Material specification please see page 24.



MBT-Series 12.3 mm width



MBT-Series 16.0 mm width



Double wrap Stainless Steel Cable Ties, uncoated MBT_UHD.

| TYPE | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | | Material | Pack Cont. | Tools | Article-No. |
|----------|-----------|------------|---------------|---------------|-------|----------|------------|-------|-------------|
| MBT27XHD | 12.3 | 681.0 | 17.0 | 100.0 | 5,000 | SS316 | 50 pcs. | 15-18 | 111-01307 |
| MBT33XHD | 12.3 | 838.0 | 17.0 | 120.0 | 5,000 | SS316 | 50 pcs. | 15-18 | 111-01308 |
| MBT43XHD | 12.3 | 1,092.0 | 17.0 | 160.0 | 5,000 | SS316 | 25 pcs. | 15-18 | 111-01309 |
| MBT49XHD | 12.3 | 1,245.0 | 17.0 | 180.0 | 5,000 | SS316 | 25 pcs. | 15-18 | 111-01310 |
| MBT60XHD | 12.3 | 1,524.0 | 17.0 | 230.0 | 5,000 | SS316 | 25 pcs. | 15-18 | 111-01311 |
| MBT27UHD | 16.0 | 681.0 | 25.0 | 100.0 | 7,000 | SS316 | 50 pcs. | 15;17 | 111-01312 |
| MBT33UHD | 16.0 | 838.0 | 25.0 | 120.0 | 7,000 | SS316 | 50 pcs. | 15;17 | 111-01313 |
| MBT43UHD | 16.0 | 1,092.0 | 25.0 | 160.0 | 7,000 | SS316 | 25 pcs. | 15;17 | 111-01314 |
| MBT49UHD | 16.0 | 1,245.0 | 25.0 | 180.0 | 7,000 | SS316 | 25 pcs. | 15;17 | 111-01315 |
| MBT60UHD | 16.0 | 1,524.0 | 25.0 | 230.0 | 7,000 | SS316 | 25 pcs. | 15;17 | 111-01316 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Recommended Tools | | | |
|-------------------|---------|-------|------------|
| 15 | 16 | 17 | 18 |
| MK9SST | MK9PSST | HDT16 | KST-STG200 |

For more information on toolings please refer to the Application Tooling chapter.



Cable Ties with Ball-Lock and Coating

MBT-FC-Series, Stainless Steel 316

The MBT range of stainless steel cable ties can be used in the most arduous of conditions or where the additional security, strength and fire resistance of a metal fixing is required. Used in all areas from mass transit, ship building, oil rigs, mining and chemical industries to theatres and exhibition halls. In the event of a fire, cables will remain securely held in place and will not fall to block emergency exits.

Features and Benefits

- Fully coated MBT, made from type 316 stainless steel with polyester coating
- Patented non-releasable locking feature
- Coated cable tie with smooth edges
- Comfortable handling and installation
- Eliminates contact corrosion between dissimilar materials during application



Patented



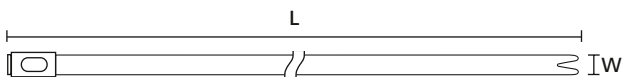
The MBT-Series (up to 7.9 mm) can be used in combination with the stainless steel P-Mount. The mount is simple to install with a screw or bolt and ensures a durable fixing solution. Please see page 143.




Stainless Steel Cable Ties, coated, MBT_SFC, MBT_HFC.



Stainless Steel Cable Ties, coated, MBT_XHFC.



MBT-Series 4.6 mm and 7.9 mm width

| TYPE | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. |  | Material | Pack Cont. | Tools | Article-No. |
|----------|-----------|------------|---------------|---------------|---|-----------|------------|-------|-------------|
| MBT5SFC | 4.6 | 127.0 | 15.0 | 25.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00288 |
| MBT8SFC | 4.6 | 201.0 | 17.0 | 50.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00289 |
| MBT14SFC | 4.6 | 362.0 | 17.0 | 102.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00290 |
| MBT20SFC | 4.6 | 521.0 | 17.0 | 152.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00291 |
| MBT27SFC | 4.6 | 681.0 | 17.0 | 203.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00292 |
| MBT33SFC | 4.6 | 838.0 | 17.0 | 254.0 | 540 | SS316, SP | 100 pcs. | 15-18 | 111-00293 |
| MBT8HFC | 7.9 | 201.0 | 17.0 | 50.0 | 1,020 | SS316, SP | 50 pcs. | 15-18 | 111-00294 |
| MBT14HFC | 7.9 | 362.0 | 17.0 | 102.0 | 1,020 | SS316, SP | 50 pcs. | 15-18 | 111-00295 |
| MBT20HFC | 7.9 | 521.0 | 17.0 | 152.0 | 1,020 | SS316, SP | 50 pcs. | 15-18 | 111-00296 |
| MBT27HFC | 7.9 | 681.0 | 17.0 | 203.0 | 1,020 | SS316, SP | 50 pcs. | 15-18 | 111-00297 |
| MBT33HFC | 7.9 | 838.0 | 17.0 | 254.0 | 1,020 | SS316, SP | 50 pcs. | 15-18 | 111-00298 |

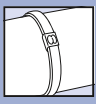
All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommended Tools

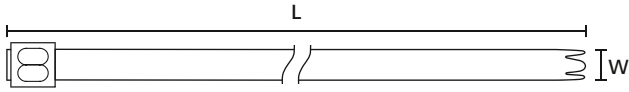
| | | | |
|--------|---------|-------|------------|
| 15 | 16 | 17 | 18 |
| MK9SST | MK9PSST | HDT16 | KST-STG200 |

For more information on toolings please refer to the Application Tooling chapter.

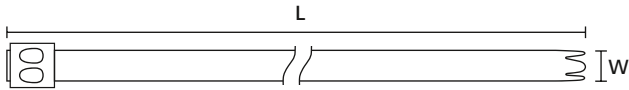


Cable Ties with Ball-Lock and Coating

MBT-FC-Series, Stainless Steel 316



MBT-Series 12.3 mm width



MBT-Series 16.0 mm width



Material specification
please see page 24.

| TYPE | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. |  | Material | Pack Cont. | Tools | Article-No. |
|-----------|-----------|------------|---------------|---------------|---|-----------|------------|-------|-------------|
| MBT14XHFC | 12.3 | 362.0 | 17.0 | 102.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-00299 |
| MBT17XHFC | 12.3 | 434.0 | 17.0 | 125.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-01500 |
| MBT20XHFC | 12.3 | 521.0 | 17.0 | 152.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-00300 |
| MBT23XHFC | 12.3 | 575.0 | 17.0 | 168.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-01501 |
| MBT27XHFC | 12.3 | 681.0 | 17.0 | 203.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-00301 |
| MBT30XHFC | 12.3 | 754.0 | 17.0 | 225.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-01502 |
| MBT33XHFC | 12.3 | 838.0 | 17.0 | 254.0 | 1,620 | SS316, SP | 50 pcs. | 15-18 | 111-00302 |
| MBT43XHFC | 12.3 | 1,092.0 | 17.0 | 330.0 | 1,620 | SS316, SP | 25 pcs. | 15-18 | 111-01503 |
| MBT49XHFC | 12.3 | 1,245.0 | 17.0 | 380.0 | 1,620 | SS316, SP | 25 pcs. | 15-18 | 111-01504 |
| MBT14UHFC | 16.0 | 362.0 | 25.0 | 102.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01512 |
| MBT17UHFC | 16.0 | 434.0 | 25.0 | 125.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01513 |
| MBT20UHFC | 16.0 | 521.0 | 25.0 | 152.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01514 |
| MBT23UHFC | 16.0 | 575.0 | 25.0 | 168.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01515 |
| MBT27UHFC | 16.0 | 681.0 | 25.0 | 203.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01516 |
| MBT30UHFC | 16.0 | 754.0 | 25.0 | 225.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01517 |
| MBT33UHFC | 16.0 | 838.0 | 25.0 | 254.0 | 2,500 | SS316, SP | 50 pcs. | 15;17 | 111-01518 |
| MBT43UHFC | 16.0 | 1,092.0 | 25.0 | 330.0 | 2,500 | SS316, SP | 25 pcs. | 15;17 | 111-01519 |
| MBT49UHFC | 16.0 | 1,245.0 | 25.0 | 380.0 | 2,500 | SS316, SP | 25 pcs. | 15;17 | 111-01520 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommended Tools

| 15 | 16 | 17 | 18 |
|--------|---------|-------|------------|
| MK9SST | MK9PSST | HDT16 | KST-STG200 |

For more information on toolings please refer to the Application Tooling chapter.



Double Wrap Cable Ties with Ball-Lock and Coating

MBTXHDFC- / MBTUHDFC-Series, Stainless Steel 316

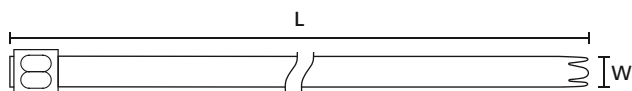
The MBT range of stainless steel cable ties can be used in the most arduous of conditions or where the additional security, strength and fire resistance of a metal fixing is required. Used in all areas from mass transit, ship building, oil rigs, mining and chemical industries to theatres and exhibition halls. In the event of a fire, cables will remain securely held in place and will not fall to block emergency exits.

Features and Benefits

- MBT cable ties, made from stainless steel SS316 with a polyester coating
- Patented non-releasable locking feature
- Double wrap operation
- Corrosion resistant
- Weather resistant
- Outstanding chemical resistance
- Antimagnetic
- High temperature resistant
- Non-burning



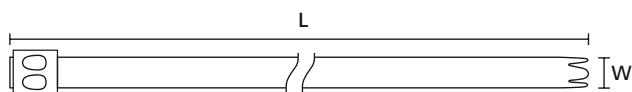
Stainless Steel Cable Ties, coated, MBT_UHDFC.



MBT-Series 12.3 mm width



Patented



MBT-Series 16.0 mm width

| TYPE | Width (W) | Length (L) | Bundle Ø min. | Bundle Ø max. | N | Material | Pack Cont. | Tools | Article-No. |
|------------|-----------|------------|---------------|---------------|-------|-----------|------------|-------|-------------|
| MBT27XHDFC | 12.3 | 681.0 | 17.0 | 100.0 | 2,500 | SS316, SP | 50 pcs. | 15-18 | 111-01505 |
| MBT33XHDFC | 12.3 | 838.0 | 17.0 | 120.0 | 2,500 | SS316, SP | 50 pcs. | 15-18 | 111-01506 |
| MBT43XHDFC | 12.3 | 1,092.0 | 17.0 | 160.0 | 2,500 | SS316, SP | 25 pcs. | 15-18 | 111-01507 |
| MBT49XHDFC | 12.3 | 1,245.0 | 17.0 | 180.0 | 2,500 | SS316, SP | 25 pcs. | 15-18 | 111-01508 |
| MBT60XHDFC | 12.3 | 1,524.0 | 17.0 | 230.0 | 2,500 | SS316, SP | 25 pcs. | 15-18 | 111-01509 |
| MBT27UHDFC | 16.0 | 681.0 | 25.0 | 100.0 | 5,000 | SS316, SP | 50 pcs. | 15;17 | 111-01521 |
| MBT33UHDFC | 16.0 | 838.0 | 25.0 | 120.0 | 5,000 | SS316, SP | 50 pcs. | 15;17 | 111-01522 |
| MBT43UHDFC | 16.0 | 1,092.0 | 25.0 | 160.0 | 5,000 | SS316, SP | 25 pcs. | 15;17 | 111-01523 |
| MBT49UHDFC | 16.0 | 1,245.0 | 25.0 | 180.0 | 5,000 | SS316, SP | 25 pcs. | 15;17 | 111-01524 |
| MBT60UHDFC | 16.0 | 1,524.0 | 25.0 | 230.0 | 5,000 | SS316, SP | 25 pcs. | 15;17 | 111-01525 |

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Recommended Tools | | | |
|-------------------|---------|-------|------------|
| 15 | 16 | 17 | 18 |
| MK9SST | MK9PSST | HDT16 | KST-STG200 |

For more information on toolings please refer to the Application Tooling chapter.

Material Specification Overview

| MATERIAL | Material Shortcut | Operating Temperature | Colour** | Flammability | Material Properties* | Material Specifications |
|---|--------------------|---|--------------------------|--------------|---|-------------------------|
| Aluminium-alloy | AL | -40 °C to +180 °C | Natural (NA) | | <ul style="list-style-type: none"> Corrosion resistant Antimagnetic | RoHS |
| Chloroprene | CR | -20 °C to +80 °C | Black (BK) | | <ul style="list-style-type: none"> Weather-resistant High yield strength | RoHS |
| Ethylene Tetrafluoroethylene | E/TFE | -80 °C to +170 °C | Blue (BU) | UL94 V0 | <ul style="list-style-type: none"> Resistance to radioactivity UV-resistant, not moisture sensitive Good chemical resistance to: acids, bases, oxidizing agents | RoHS |
| Polyacetal | POM | -40 °C to +90 °C, (+110 °C, 500 h) | Natural (NA) | UL94 HB | <ul style="list-style-type: none"> Limited brittleness sensitivity Flexible at low temperature Not moisture sensitive Robust on impacts | RoHS |
| Polyamide 11 | PA11 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) | UL94 HB | <ul style="list-style-type: none"> Bio-plastic, derived from vegetable oil Strong impact resistance at low temperature Very low moisture absorption Weather-resistant Good chemical resistance | HF RoHS |
| Polyamide 12 | PA12 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) | UL94 HB | <ul style="list-style-type: none"> Good chemical resistance to: acids, bases, oxidizing agents UV-resistant | HF RoHS |
| Polyamide 4.6 | PA46 | -40 °C to +150 °C (5000 h), +195 °C (500 h) | Natural (NA), Grey (GY) | UL94 V2 | <ul style="list-style-type: none"> Resistance to high temperatures Very moisture sensitive Low smoke sensitive | HF LFH RoHS |
| Polyamide 6 | PA6 | -40 °C to +80 °C | Black (BK) | UL94 V2 | <ul style="list-style-type: none"> High yield strength | RoHS |
| Polyamide 6, high impact modified | PA6HIR | -40 °C to +80 °C | Black (BK) | UL94 HB | <ul style="list-style-type: none"> Limited brittleness sensitivity Higher flexibility at low temperature | RoHS |
| Polyamide 6.6 | PA66 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK), Natural (NA) | UL94 V2 | <ul style="list-style-type: none"> High yield strength | HF RoHS |
| Polyamide 6.6, glass-fibre reinforced | PA66GF13, PA66GF15 | -40 °C to +105 °C | Black (BK) | UL94 HB | <ul style="list-style-type: none"> Good resistance to: lubricants, vehicle fuel, salt water and many solvents | HF RoHS |
| Polyamide 6.6, heat and UV stabilised | PA66HSW | -40 °C to +105 °C | Black (BK) | UL94 V2 | <ul style="list-style-type: none"> High yield strength Modified elevated max. temperature UV-resistant | HF RoHS |
| Polyamide 6.6, heat stabilised | PA66HS | -40 °C to +105 °C | Black (BK), Natural (NA) | UL94 V2 | <ul style="list-style-type: none"> High yield strength Modified elevated max. temperature | HF RoHS |
| Polyamide 6.6, high impact modified | PA66HIR | -40 °C to +80 °C, (+105 °C, 500 h) | Black (BK) | UL94 HB | <ul style="list-style-type: none"> Limited brittleness sensitivity Higher flexibility at low temperature | RoHS |
| Polyamide 6.6, high impact modified, heat and UV stabilised | PA66HIRHSW | -40 °C to +110 °C | Black (BK) | UL94 HB | <ul style="list-style-type: none"> Limited brittleness sensitivity Higher flexibility at low temperature Modified elevated max. temperature High yield strength, UV-resistant | HF RoHS |
| Polyamide 6.6, high impact modified, heat stabilised | PA66HIRHS | -40 °C to +105 °C | Black (BK) | UL94 HB | <ul style="list-style-type: none"> Limited brittleness sensitivity Higher flexibility at low temperature Modified elevated max. temperature | RoHS |
| Polyamide 6.6, high impact modified, scan black | PA66HIR(S) | -40 °C to +80 °C, (+105 °C, 500 h) | Black (BK) | UL94 HB | <ul style="list-style-type: none"> Limited brittleness sensitivity Higher flexibility at low temperature | HF RoHS |
| Polyamide 6.6, UV-resistant | PA66W | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) | UL94 V2 | <ul style="list-style-type: none"> High yield strength UV-resistant | HF RoHS |

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= Minimum Loop Tensile Strength for Cable Ties (Newton)

HF = Halogenfree

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances

| MATERIAL | Material Shortcut | Operating Temperature | Colour** | Flammability | Material Properties* | Material Specifications |
|---|-------------------|---------------------------------------|--------------------------------|--------------|--|--|
| Polyamide 6.6 , with metal particles | PA66MP | -40 °C to +85 °C, (+105 °C, 500 h) | Blue (BU) | UL94 HB | <ul style="list-style-type: none"> High yield strength Metal and X-Ray detectable | HF RoHS |
| Polyamide 6.6 V0 | PA66V0 | -40 °C to +85 °C | White (WH) | UL94 V0 | <ul style="list-style-type: none"> High yield strength Low smoke emission | HF LFH RoHS |
| Polyamide 6.6 V0 , High Oxygen Index | PA66V0-HOI | -40 °C to +85 °C, (+105 °C, 500 h) | White (WH) | UL94 V0 | <ul style="list-style-type: none"> High yield strength Low smoke emissions | HF LFH RoHS |
| Polyester | SP | -50 °C to +150 °C | Black (BK) | Halogen free | <ul style="list-style-type: none"> UV-resistant Good chemical resistance to: most acids, alkalis and oils | HF LFH RoHS |
| Polyetheretherketone | PEEK | -55 °C to +240 °C | Beige (BGE) | UL94 V0 | <ul style="list-style-type: none"> Resistance to radioactivity Not moisture sensitive Good chemical resistance to: acids, bases, oxidizing agents | HF LFH RoHS |
| Polyethylene | PE | -40 °C to +50 °C | Black (BK), Grey (GY) | UL94 HB | <ul style="list-style-type: none"> Low moisture absorption Good chemical resistance to: most acids, alcohol and oils | HF RoHS |
| Polyolefin | PO | -40 °C to +90 °C | Black (BK) | UL94 V0 | <ul style="list-style-type: none"> Low smoke emissions | HF LFH RoHS |
| Polypropylene | PP | -40 °C to +115 °C | Black (BK), Natural (NA) | UL94 HB | <ul style="list-style-type: none"> Floats in water Moderate yield strength Good chemical resistance to: organic acids | HF RoHS |
| Polypropylene, Ethylene- Propylene-Dien- Terpolymere-rubber free of Nitrosamine | PP, EPDM | -20 °C to +95 °C | Black (BK) | UL94 HB | <ul style="list-style-type: none"> Good resistance to high temperatures Good chemical and abrasion resistance | HF RoHS |
| Polypropylene with metal particles | PPMP | -40 °C to +115 °C | Blue (BU) | UL94 HB | <ul style="list-style-type: none"> Floats in certain liquids Metal and X-Ray detectable Heat resistant Moderate yield strength Good chemical resistance | RoHS |
| Polyvinylchloride | PVC | -10 °C to +70 °C | Black (BK), Natural (NA) | UL94 V0 | <ul style="list-style-type: none"> Low moisture absorption Good chemical resistance to: acids, ethanol and oil | RoHS |
| Stainless Steel, Stainless Steel | SS304, SS316 | -80 °C to +538 °C | Natural (NA) | Non burning | <ul style="list-style-type: none"> Corrosion resistant Antimagnetic Weather resistant Outstanding chemical resistance | HF LFH RoHS |
| Thermoplastic Polyurethane | TPU | -40 °C to +85 °C | Black (BK) | UL94 HB | <ul style="list-style-type: none"> High elasticity Good chemical resistance to: acids, bases and oxidizing agents | HF RoHS |

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