

Q-ties

Innovative – Effective – Safe!

The new Q-tie has not only innovative, but also has a revolutionary new design. The open head of the cable tie enables a simple and quick installation. Simply insert the ergonomically bent tail into the open side of the head and tighten the cable tie.

With Q-ties you can save time and money!

Easy Application for every Situation!

Q-tie provides the perfect solution for applications in difficult working conditions. It is ideal for use in applications when working with gloves is necessary or for blind applications with a limited view of the work. The new Q-tie allowing for a quick and simple installation, even with work gloves and restricted view.

Features for quick and easy application:

- Large curved tail with easy-grip ribs
- Open head with easy detectable slot

This saves time and trouble!

Integrated Pre-locking Functionality!

Due to several simultaneous working processes, it is not always possible to install all cables and conduits in one single step. Working with standard cable ties means either removing the cable tie of the first installation or applying additional cable ties. The integrated pre-locking function of the Q-tie offers both a temporary and final cable fastening solution.

This saves material and time!



Application video:
Q-Series



Even under difficult circumstances the Q-tie cable tie is very fast and easy to apply.



Please find more Q-Series products for your system solution on page 137, 147 and 492.

Application Method:



1. Insert the thin part of the cable tie into the open lock head.



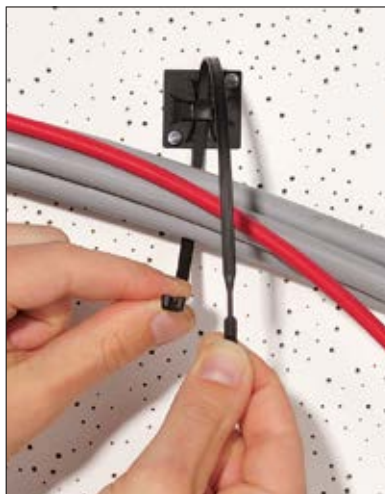
2. Pull the tie through the head until the bundle is fixed.

3. Cut off the remaining part of the tie with an application tool.

Pre-locking Function of the Q-tie:



1. Insert tail into lock head and push tail partly into the head.



2. To release the tie push the tail slightly out of the head.



3. If installation is finished, Q-tie can be tightened and cut off - either manually or with an application tool.



Cable Ties with open head Polyamide 6.6 standard

Q-Series in PA66 natural and black

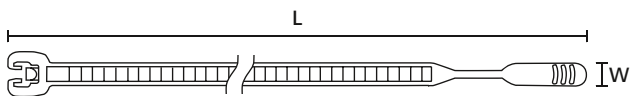
Q-Series cable ties for bundling and securing cables, pipes and hoses. These innovative and effective cable ties enable a simple and quick installation, even in difficult applications.

Features and benefits

- Open lock head for quick and easy insertion
- Integrated pre-locking function
- More than 25 % faster to apply than a standard cable tie
- Inside serration for a strong hold around bundles
- Easy application either manually or with a processing tool



Q-tie cable ties: choose from a wide product range in different sizes.



Q-Series

| TYPE | Width (W) | Length (L) | Bundle Ø max. | | Material | Colour | Pack Cont. | Tools | Article-No. |
|-------|-----------|------------|---------------|-----|----------|--------------|------------|-----------|-------------|
| Q18R | 2.6 | 105.0 | 24.0 | 80 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 109-00030 |
| | 2.6 | 105.0 | 24.0 | 80 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 109-00001 |
| Q18I | 2.6 | 155.0 | 40.0 | 80 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 109-00033 |
| | 2.6 | 155.0 | 40.0 | 80 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 109-00004 |
| Q18L | 2.6 | 195.0 | 50.0 | 80 | PA66 | Black (BK) | 100 pcs. | 2;4-6 | 109-00036 |
| | 2.6 | 195.0 | 50.0 | 80 | PA66 | Natural (NA) | 100 pcs. | 2;4-6 | 109-00007 |
| Q30R | 3.6 | 160.0 | 38.0 | 130 | PA66 | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00039 |
| | 3.6 | 160.0 | 38.0 | 130 | PA66 | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00010 |
| Q30L | 3.6 | 200.0 | 50.0 | 130 | PA66 | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00041 |
| | 3.6 | 200.0 | 50.0 | 130 | PA66 | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00012 |
| Q30LR | 3.6 | 250.0 | 65.0 | 130 | PA66 | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00043 |
| | 3.6 | 250.0 | 65.0 | 130 | PA66 | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00014 |
| Q50R | 4.7 | 210.0 | 50.0 | 220 | PA66 | Black (BK) | 100 pcs. | 2-12;15 | 109-00047 |
| | 4.7 | 210.0 | 50.0 | 220 | PA66 | Natural (NA) | 100 pcs. | 2-12;15 | 109-00018 |
| Q50I | 4.7 | 290.0 | 75.0 | 220 | PA66 | Black (BK) | 100 pcs. | 2-12;15 | 109-00049 |
| | 4.7 | 290.0 | 75.0 | 220 | PA66 | Natural (NA) | 100 pcs. | 2-12;15 | 109-00020 |
| Q50L | 4.7 | 410.0 | 110.0 | 220 | PA66 | Black (BK) | 100 pcs. | 2-12;15 | 109-00051 |
| | 4.7 | 410.0 | 110.0 | 220 | PA66 | Natural (NA) | 100 pcs. | 2-12;15 | 109-00022 |
| Q120I | 7.7 | 300.0 | 70.0 | 530 | PA66 | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00053 |
| | 7.7 | 300.0 | 70.0 | 530 | PA66 | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00024 |
| Q120R | 7.7 | 420.0 | 110.0 | 530 | PA66 | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00055 |
| | 7.7 | 420.0 | 110.0 | 530 | PA66 | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00026 |
| Q120M | 7.7 | 520.0 | 130.0 | 530 | PA66 | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00057 |
| | 7.7 | 520.0 | 130.0 | 530 | PA66 | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00028 |

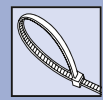
All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

| Recommended Tools | | | | | | | | | | | | |
|-------------------|------|------|-------|----------|------|-------|------|-----|------|--------|------|--------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | MK9SST |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | 560 |

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 open head Polyamide 6.6 standard

Q-Series in PA66 coloured

Q-Series cable ties for bundling and securing cables, pipes and hoses. These innovative and effective cable ties enable a simple and quick installation, even in difficult applications.

Features and benefits

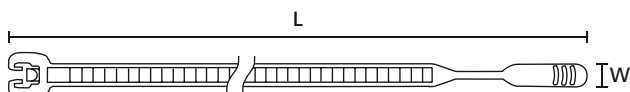
- Coloured cable ties available in a wide range of sizes
- Open lock head for quick and easy insertion
- Integrated pre-locking function
- More than 25 % faster to apply than a standard cable tie
- Inside serration for a strong hold around bundles
- Easy application either manually or with a processing tool



Q-ties in different colours are ideal for marking and bundling in one step.



Application video:
Q-Series



Q-Series

Material specification
please see page 26.

Please find more Q-Series products for your system solution on page 137, 147 and 492.

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Tools | Article-No. |
|------|-----------|------------|---------------|----|----------|-------------|------------|-------|-------------|
| Q18R | 2.6 | 105.0 | 24.0 | 80 | PA66 | Blue (BU) | 100 pcs. | 2;4-6 | 109-00147 |
| | 2.6 | 105.0 | 24.0 | 80 | PA66 | Green (GN) | 100 pcs. | 2;4-6 | 109-00148 |
| | 2.6 | 105.0 | 24.0 | 80 | PA66 | Red (RD) | 100 pcs. | 2;4-6 | 109-00149 |
| | 2.6 | 105.0 | 24.0 | 80 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6 | 109-00150 |
| Q18I | 2.6 | 155.0 | 40.0 | 80 | PA66 | Blue (BU) | 100 pcs. | 2;4-6 | 109-00152 |
| | 2.6 | 155.0 | 40.0 | 80 | PA66 | Green (GN) | 100 pcs. | 2;4-6 | 109-00153 |
| | 2.6 | 155.0 | 40.0 | 80 | PA66 | Red (RD) | 100 pcs. | 2;4-6 | 109-00154 |
| | 2.6 | 155.0 | 40.0 | 80 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6 | 109-00155 |
| Q18L | 2.6 | 195.0 | 50.0 | 80 | PA66 | Blue (BU) | 100 pcs. | 2;4-6 | 109-00157 |
| | 2.6 | 195.0 | 50.0 | 80 | PA66 | Green (GN) | 100 pcs. | 2;4-6 | 109-00158 |
| | 2.6 | 195.0 | 50.0 | 80 | PA66 | Red (RD) | 100 pcs. | 2;4-6 | 109-00159 |
| | 2.6 | 195.0 | 50.0 | 80 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6 | 109-00160 |

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 | | | | | | | | | | | | |
|-------------------|------|------|-------|----------|------|-------|------|-----|------|--------|------|--------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | MK9SST |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | 560 |

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

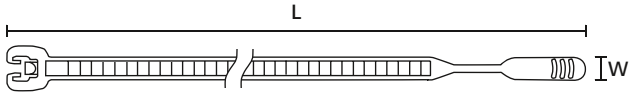


For product specific approvals and specifications please refer to the Appendix.



Cable Ties with open head Polyamide 6.6 standard

Q-Series in PA66 coloured



Q-Series

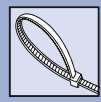
| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Tools | Article-No. |
|-------|-----------|------------|---------------|-----|----------|-------------|------------|-----------|-------------|
| Q30R | 3.6 | 160.0 | 38.0 | 130 | PA66 | Blue (BU) | 100 pcs. | 2;4-6;8 | 109-00162 |
| | 3.6 | 160.0 | 38.0 | 130 | PA66 | Green (GN) | 100 pcs. | 2;4-6;8 | 109-00163 |
| | 3.6 | 160.0 | 38.0 | 130 | PA66 | Red (RD) | 100 pcs. | 2;4-6;8 | 109-00164 |
| | 3.6 | 160.0 | 38.0 | 130 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6;8 | 109-00165 |
| Q30L | 3.6 | 200.0 | 50.0 | 130 | PA66 | Blue (BU) | 100 pcs. | 2;4-6;8 | 109-00167 |
| | 3.6 | 200.0 | 50.0 | 130 | PA66 | Green (GN) | 100 pcs. | 2;4-6;8 | 109-00168 |
| | 3.6 | 200.0 | 50.0 | 130 | PA66 | Red (RD) | 100 pcs. | 2;4-6;8 | 109-00169 |
| | 3.6 | 200.0 | 50.0 | 130 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6;8 | 109-00170 |
| Q30LR | 3.6 | 250.0 | 65.0 | 130 | PA66 | Blue (BU) | 100 pcs. | 2;4-6;8 | 109-00172 |
| | 3.6 | 250.0 | 65.0 | 130 | PA66 | Green (GN) | 100 pcs. | 2;4-6;8 | 109-00173 |
| | 3.6 | 250.0 | 65.0 | 130 | PA66 | Red (RD) | 100 pcs. | 2;4-6;8 | 109-00174 |
| | 3.6 | 250.0 | 65.0 | 130 | PA66 | Yellow (YE) | 100 pcs. | 2;4-6;8 | 109-00175 |
| Q50R | 4.7 | 210.0 | 50.0 | 220 | PA66 | Blue (BU) | 100 pcs. | 2-12;15 | 109-00182 |
| | 4.7 | 210.0 | 50.0 | 220 | PA66 | Green (GN) | 100 pcs. | 2-12;15 | 109-00183 |
| | 4.7 | 210.0 | 50.0 | 220 | PA66 | Red (RD) | 100 pcs. | 2-12;15 | 109-00184 |
| | 4.7 | 210.0 | 50.0 | 220 | PA66 | Yellow (YE) | 100 pcs. | 2-12;15 | 109-00185 |
| Q50I | 4.7 | 290.0 | 75.0 | 220 | PA66 | Blue (BU) | 100 pcs. | 2-12;15 | 109-00187 |
| | 4.7 | 290.0 | 75.0 | 220 | PA66 | Green (GN) | 100 pcs. | 2-12;15 | 109-00188 |
| | 4.7 | 290.0 | 75.0 | 220 | PA66 | Red (RD) | 100 pcs. | 2-12;15 | 109-00189 |
| | 4.7 | 290.0 | 75.0 | 220 | PA66 | Yellow (YE) | 100 pcs. | 2-12;15 | 109-00190 |
| Q50L | 4.7 | 410.0 | 110.0 | 220 | PA66 | Blue (BU) | 100 pcs. | 2-12;15 | 109-00192 |
| | 4.7 | 410.0 | 110.0 | 220 | PA66 | Green (GN) | 100 pcs. | 2-12;15 | 109-00193 |
| | 4.7 | 410.0 | 110.0 | 220 | PA66 | Red (RD) | 100 pcs. | 2-12;15 | 109-00194 |
| | 4.7 | 410.0 | 110.0 | 220 | PA66 | Yellow (YE) | 100 pcs. | 2-12;15 | 109-00195 |
| Q120I | 7.7 | 300.0 | 70.0 | 530 | PA66 | Blue (BU) | 100 pcs. | 3;9-12;15 | 109-00197 |
| | 7.7 | 300.0 | 70.0 | 530 | PA66 | Green (GN) | 100 pcs. | 3;9-12;15 | 109-00198 |
| | 7.7 | 300.0 | 70.0 | 530 | PA66 | Red (RD) | 100 pcs. | 3;9-12;15 | 109-00199 |
| | 7.7 | 300.0 | 70.0 | 530 | PA66 | Yellow (YE) | 100 pcs. | 3;9-12;15 | 109-00200 |
| Q120R | 7.7 | 420.0 | 110.0 | 530 | PA66 | Blue (BU) | 100 pcs. | 3;9-12;15 | 109-00202 |
| | 7.7 | 420.0 | 110.0 | 530 | PA66 | Green (GN) | 100 pcs. | 3;9-12;15 | 109-00203 |
| | 7.7 | 420.0 | 110.0 | 530 | PA66 | Red (RD) | 100 pcs. | 3;9-12;15 | 109-00204 |
| | 7.7 | 420.0 | 110.0 | 530 | PA66 | Yellow (YE) | 100 pcs. | 3;9-12;15 | 109-00205 |
| Q120M | 7.7 | 520.0 | 130.0 | 530 | PA66 | Blue (BU) | 100 pcs. | 3;9-12;15 | 109-00207 |
| | 7.7 | 520.0 | 130.0 | 530 | PA66 | Green (GN) | 100 pcs. | 3;9-12;15 | 109-00208 |
| | 7.7 | 520.0 | 130.0 | 530 | PA66 | Red (RD) | 100 pcs. | 3;9-12;15 | 109-00209 |
| | 7.7 | 520.0 | 130.0 | 530 | PA66 | Yellow (YE) | 100 pcs. | 3;9-12;15 | 109-00210 |

All dimensions in mm. Subject to technical changes.

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



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



Cable Ties with open head for outdoor use (UV-resistant)

Q-Series in PA66W black

Q-Series cable ties for bundling and securing cables, pipes and hoses. These innovative and effective cable ties enable a simple and quick installation, even in difficult applications.

Features and benefits

- Weather-resistant black cable ties available in a wide range of sizes
- Open lock head for quick and easy insertion
- Integrated pre-locking function
- More than 25 % faster to apply than a standard cable tie
- Inside serration for a strong hold around bundles
- Easy application either manually or with a processing tool
- UV-resistant



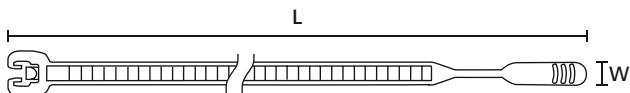
Q-tie cable ties: choose from a wide product range in different sizes.



Material specification please see page 26.



Please find more Q-Series products for your system solution on page 137, 147 and 492.



Q-Series

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Tools | Article-No. |
|-------|-----------|------------|---------------|-----|----------|------------|------------|-----------|-------------|
| Q18R | 2.6 | 105.0 | 24.0 | 80 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 109-00059 |
| Q18I | 2.6 | 155.0 | 40.0 | 80 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 109-00062 |
| Q18L | 2.6 | 195.0 | 50.0 | 80 | PA66W | Black (BK) | 100 pcs. | 2;4-6 | 109-00065 |
| Q30R | 3.6 | 160.0 | 38.0 | 130 | PA66W | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00068 |
| Q30L | 3.6 | 200.0 | 50.0 | 130 | PA66W | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00070 |
| Q30LR | 3.6 | 250.0 | 65.0 | 130 | PA66W | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00072 |
| Q50R | 4.7 | 210.0 | 50.0 | 220 | PA66W | Black (BK) | 100 pcs. | 2-12;15 | 109-00076 |
| Q50I | 4.7 | 290.0 | 75.0 | 220 | PA66W | Black (BK) | 100 pcs. | 2-12;15 | 109-00078 |
| Q50L | 4.7 | 410.0 | 110.0 | 220 | PA66W | Black (BK) | 100 pcs. | 2-12;15 | 109-00080 |
| Q120I | 7.7 | 300.0 | 70.0 | 530 | PA66W | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00082 |
| Q120R | 7.7 | 420.0 | 110.0 | 530 | PA66W | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00084 |
| Q120M | 7.7 | 520.0 | 130.0 | 530 | PA66W | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00086 |

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 | | | | | | | | | | | | |
|-------------------|------|------|-------|----------|------|-------|------|-----|------|--------|------|--------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | MK9SST |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | 560 |

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



Cable Ties with open head for temperatures up to +105 °C (heat stabilised)

Q-Series in PA66HS natural and black

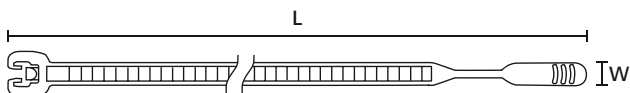
Q-Series cable ties for bundling and securing cables, pipes and hoses. These innovative and effective cable ties enable a simple and quick installation, even in difficult applications.

Features and benefits

- Heat stabilised cable ties available in a wide range of sizes
- Open lock head for quick and easy insertion
- Integrated pre-locking function
- More than 25 % faster to apply than a standard cable tie
- Inside serration for a strong hold around bundles
- Easy application either manually or with a processing tool
- Higher temperature resistance up to +105 °C



Q-tie cable ties: choose from a wide product range in different sizes.



Q-Series

| TYPE | Width (W) | Length (L) | Bundle Ø max. | N | Material | Colour | Pack Cont. | Tools | Article-No. |
|-------|-----------|------------|---------------|-----|----------|--------------|------------|-----------|-------------|
| Q18R | 2.6 | 105.0 | 24.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 109-00088 |
| | 2.6 | 105.0 | 24.0 | 80 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 109-00117 |
| Q18I | 2.6 | 155.0 | 40.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 109-00091 |
| | 2.6 | 155.0 | 40.0 | 80 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 109-00120 |
| Q18L | 2.6 | 195.0 | 50.0 | 80 | PA66HS | Black (BK) | 100 pcs. | 2;4-6 | 109-00094 |
| | 2.6 | 195.0 | 50.0 | 80 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6 | 109-00123 |
| Q30R | 3.6 | 160.0 | 38.0 | 130 | PA66HS | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00097 |
| | 3.6 | 160.0 | 38.0 | 130 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00126 |
| Q30L | 3.6 | 200.0 | 50.0 | 130 | PA66HS | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00099 |
| | 3.6 | 200.0 | 50.0 | 130 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00128 |
| Q30LR | 3.6 | 250.0 | 65.0 | 130 | PA66HS | Black (BK) | 100 pcs. | 2;4-6;8 | 109-00101 |
| | 3.6 | 250.0 | 65.0 | 130 | PA66HS | Natural (NA) | 100 pcs. | 2;4-6;8 | 109-00130 |
| Q50R | 4.7 | 210.0 | 50.0 | 220 | PA66HS | Black (BK) | 100 pcs. | 2-12;15 | 109-00105 |
| | 4.7 | 210.0 | 50.0 | 220 | PA66HS | Natural (NA) | 100 pcs. | 2-12;15 | 109-00134 |
| Q50I | 4.7 | 290.0 | 75.0 | 220 | PA66HS | Black (BK) | 100 pcs. | 2-12;15 | 109-00107 |
| | 4.7 | 290.0 | 75.0 | 220 | PA66HS | Natural (NA) | 100 pcs. | 2-12;15 | 109-00136 |
| Q50L | 4.7 | 410.0 | 110.0 | 220 | PA66HS | Black (BK) | 100 pcs. | 2-12;15 | 109-00109 |
| | 4.7 | 410.0 | 110.0 | 220 | PA66HS | Natural (NA) | 100 pcs. | 2-12;15 | 109-00138 |
| Q120I | 7.7 | 300.0 | 70.0 | 530 | PA66HS | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00111 |
| | 7.7 | 300.0 | 70.0 | 530 | PA66HS | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00140 |
| Q120R | 7.7 | 420.0 | 110.0 | 530 | PA66HS | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00113 |
| | 7.7 | 420.0 | 110.0 | 530 | PA66HS | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00142 |
| Q120M | 7.7 | 520.0 | 130.0 | 530 | PA66HS | Black (BK) | 100 pcs. | 3;9-12;15 | 109-00115 |
| | 7.7 | 520.0 | 130.0 | 530 | PA66HS | Natural (NA) | 100 pcs. | 3;9-12;15 | 109-00144 |

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 | | | | | | | | | | | | |
|-------------------|------|------|-------|----------|------|-------|------|-----|------|--------|------|--------|
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 15 |
| | MK20 | MK21 | MK3SP | MK3PNSP2 | EVO7 | MK7HT | MK7P | MK6 | EVO9 | EVO9HT | MK9P | MK9SST |
| | 551 | 551 | 552 | 552 | 554 | 555 | 556 | 557 | 554 | 554 | 558 | 560 |

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



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

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 (Tefzel®) | E/TFE | -80 °C to +170 °C | Blue (BU) | UL 94 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) | UL 94 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) | UL 94 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) | UL 94 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) | UL 94 V2 | <ul style="list-style-type: none"> Resistance to high temperatures Very moisture sensitive Low smoke sensitiv | HF LFH RoHS |
| Polyamide 6 | PA6 | -40 °C to +80 °C | Black (BK) | UL 94 V2 | <ul style="list-style-type: none"> High yield strength | RoHS |
| Polyamide 6, high impact modified | PA6HIR | -40 °C to +80 °C | Black (BK) | UL 94 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) | UL 94 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) | UL 94 HB | <ul style="list-style-type: none"> Good resistance to: lubricants, vehicle fuel, salt water and a lot of solvent | HF RoHS |
| Polyamide 6.6, heat and UV stabilised | PA66HSW | -40 °C to +105 °C | Black (BK) | UL 94 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) | UL 94 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) | UL 94 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) | UL 94 HB | <ul style="list-style-type: none"> Limited brittleness sensitivity Higher flexibility at low temperature Modified elevated max. temperature High yield strength, UV-resistant | RoHS |
| Polyamide 6.6, high impact modified, heat stabilised | PA66HIRHS | -40 °C to +105 °C | Black (BK) | UL 94 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, ScanBlack | PA66HIR(S) | -40 °C to +80 °C, (+105 °C, 500 h) | Black (BK) | UL 94 HB | <ul style="list-style-type: none"> Limited brittleness sensitivity Higher flexibility at low temperature | RoHS |
| Polyamide 6.6, UV-resistant | PA66W | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) | UL 94 V2 | <ul style="list-style-type: none"> High yield strength UV-resistant | HF RoHS |

| 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) | UL 94 HB | <ul style="list-style-type: none"> High yield strength Metal and X-Ray detectable | HF RoHS |
| Polyamide 6.6, with metal particles | PA66MP+ | -40 °C to +85 °C | Blue (BU) | not flame retardant | <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) | UL 94 V0 | <ul style="list-style-type: none"> High yield strength Low smoke emission | 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) | UL 94 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) | UL 94 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) | UL 94 V0 | <ul style="list-style-type: none"> Low smoke emissions | HF LFH RoHS |
| Polypropylene | PP | -40 °C to +115 °C | Black (BK), Natural (NA) | UL 94 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) | UL 94 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) | UL 94 HB | <ul style="list-style-type: none"> Metal and X-Ray detectable Heat resistant Moderate yield strength Good chemical resistance | RoHS |
| Polypropylene with metal particles | PPMP+ | -40 °C to +85 °C | Blue (BU) | not flame retardant | <ul style="list-style-type: none"> High yield strength Metal and x-ray detectable | HF RoHS |
| Polyvinylchloride | PVC | -10 °C to +70 °C | Black (BK), Natural (NA) | UL 94 V0 | <ul style="list-style-type: none"> Low moisture absorption Good chemical resistance to: acids, ethanol and oil | RoHS |
| 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) | UL 94 HB | <ul style="list-style-type: none"> High elastic Good chemical resistance to: acids, bases and oxidizing agents | HF RoHS |

Tefzel® is a registered trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel®-Tie. In addition to Tefzel® from DuPont HellermannTyton is also using equivalent E/TFE raw material from other suppliers. *These details are only rough guide values. They should not be regarded as a material specification and are no substitute for a suitability test. Please see our datasheets for further details.

**More colours on request.

 = Minimum Loop Tensile Strength for Cable Ties (Newton)

HF = Halogenfree

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Cable Ties](#) category:

Click to view products by [HellermannTyton](#) manufacturer:

Other Similar products are found below :

[65034-C](#) [65037-C](#) [770-1751-10](#) [REL50L0C2](#) [20093-0](#) [SF600-120X](#) [SJ-3463](#) [SJ3518FR-1x50](#) [SJ3526N-Beige-2"x50yd](#) [SJ3571](#) [PLT2S-C4](#)
[34-455-C](#) [3722](#) [561-B110120](#) [561-N3510](#) [TYZ528M](#) [34-463-C](#) [URT20S-M](#) [06226](#) [08350-0](#) [08600-0](#) [08376-0](#) [10036-0](#) [10037-0](#) [10325-0](#)
[10362-0](#) [10606-0](#) [1122-4JW8](#) [561-EZ250](#) [561-EZ625](#) [SJ3519FR BLACK 1X50](#) [SJ3527N-Beige-2"x50yd](#) [SJ3527N-LOOP-BLACK-1](#)
[SJ3572-2"x50yd-Black](#) [CF5625-000](#) [V03HK](#) [65004-C](#) [65005-C](#) [65007-C](#) [65036-C](#) [157-00039](#) [770-1708](#) [770-1753-10](#) [65035-C](#) [770-1752](#)
[SPNY-041-9](#) [SF400-120X](#) [3719](#) [08582-0](#) [08386-0](#)