

3M™ Cable Ties

Data Sheet

June 2019

Description 3M™ Cable Ties are molded from 6/6 nylon and are available in a variety of sizes and styles, including weather resistant black for outdoor use.

Agency Approvals & Self Certifications Products which are UL Listed as noted in the **Typical Data** section meet UL Standard 62275 for Cable Management Systems, TYPE 21 or TYPE 21S, and are suitable for use in Air Handling Spaces (plenums) in accordance with Section 300.22 of the National Electric Code.

Products which are identified as UL Listed and manufactured with a black, UV resistant material are Listed as suitable for use outdoors.

The Heavy Duty(175 lb.) cable ties are UL Listed 181B-C mechanical fasteners for use with flexible air ducts.

UL. File # E116841

For RoHS and REACH information, please visit www.3M.com/regs

Applications 3M™ Cable Ties are used to secure wire bundles and harness components quickly. The flexible design allows the user to slip ties easily under and around cables and harnesses. These ties can be used with most standard tensioning/cutoff tools for fast production line fastening.

Specifications **Open Specifications**
All ties must be UL. Listed, TYPE 21 or TYPE 21S, and tested to UL. Standard 62275 for Cable Management Systems.

Closed Specifications
Product must be 3M cable ties, UL. Listed, TYPE 21 or TYPE 21S, and tested to UL. Standard 62275 for Cable Management Systems.

Cable Tie Mounting Bases

3M™ Cable Tie Bases are molded from 6/6 nylon or ABS and available in natural, weather resistant black or ivory material. They are also available in different sizes and mounting abilities. The self-adhesive style is for simple lightweight mounting of wire bundles while the saddle design screw mount is designed for maximum weight and stability.

3M™ Cable Ties



Miniature Cable Ties (18lb, 80N) UL Listed TYPE 21

| Part Number | Length in (mm) | Width in (mm) | Min/Max Bundle Dia. in (mm) | Tensile lb (N) | Thickness in (mm) | Operating Temp. | Min Install Temp | Bag Quantity | Description |
|-------------|----------------|---------------|-----------------------------|----------------|-------------------|-----------------|------------------|--------------|--------------------|
| CT4BK18-C | 4.1 (104) | .10 (3,0) | .062 (1,6) / .75 (19,1) | 18 (80) | .04 (1,0) | -40°C - 85°C | 0°C | 100 | UV Resistant Black |
| CT4BK18-M | 4.1 (104) | .10 (3,0) | .062 (1,6) / .75 (19,1) | 18 (80) | .04 (1,0) | -40°C - 85°C | 0°C | 1000 | UV Resistant Black |
| CT4NT18-C | 4.1 (104) | .10 (3,0) | .062 (1,6) / .75 (19,1) | 18 (80) | .04 (1,0) | -40°C - 85°C | 0°C | 100 | Standard |
| CT4NT18-M | 4.1 (104) | .10 (3,0) | .062 (1,6) / .75 (19,1) | 18 (80) | .04 (1,0) | -40°C - 85°C | 0°C | 1000 | Standard |
| CT6BK18-C | 6.1 (155) | .10 (3,0) | .062 (1,6) / 1.25 (31,8) | 18 (80) | .05 (1,3) | -40°C - 85°C | 0°C | 100 | UV Resistant Black |
| CT6NT18-C | 6.1 (155) | .10 (3,0) | .062 (1,6) / 1.25 (31,8) | 18 (80) | .05 (1,3) | -40°C - 85°C | 0°C | 100 | Standard |
| CT6NT18-M | 6.1 (155) | .10 (3,0) | .062 (1,6) / 1.25 (31,8) | 18 (80) | .05 (1,3) | -40°C - 85°C | 0°C | 1000 | Standard |
| CT8BK18-C | 8.1 (206) | .10 (3,0) | .062 (1,6) / 2.00 (50,8) | 18 (80) | .05 (1,3) | -40°C - 85°C | 0°C | 100 | UV Resistant Black |
| CT8BK18-M | 8.1 (206) | .10 (3,0) | .062 (1,6) / 2.00 (50,8) | 18 (80) | .05 (1,3) | -40°C - 85°C | 0°C | 1000 | UV Resistant Black |
| CT8NT18-C | 8.1 (206) | .10 (3,0) | .062 (1,6) / 2.00 (50,8) | 18 (80) | .05 (1,3) | -40°C - 85°C | 0°C | 100 | Standard |
| CT8NT18-M | 8.1 (206) | .10 (3,0) | .062 (1,6) / 2.00 (50,8) | 18 (80) | .05 (1,3) | -40°C - 85°C | 0°C | 1000 | Standard |



Intermediate Cable Ties (40lb, 180N) UL Listed TYPE 21

| Part Number | Length in (mm) | Width in (mm) | Min/Max Bundle Dia. in (mm) | Tensile lb (N) | Thickness in (mm) | Temp. Rating | Min Install Temp | Bag Quantity | Description |
|-------------|----------------|---------------|-----------------------------|----------------|-------------------|--------------|------------------|--------------|--------------------|
| CT6BK40-C | 5.8 (147) | .14 (3,6) | .062 (1,6) / 1.25 (31,8) | 40 (180) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | UV Resistant Black |
| CT6BK40-M | 5.8 (147) | .14 (3,6) | .062 (1,6) / 1.25 (31,8) | 40 (180) | .05 (1,3) | -40°C - 85°C | -20°C | 1000 | UV Resistant Black |
| CT6NT40-C | 5.8 (147) | .14 (3,6) | .062 (1,6) / 1.25 (31,8) | 40 (180) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | Standard |
| CT6NT40-M | 5.8 (147) | .14 (3,6) | .062 (1,6) / 1.25 (31,8) | 40 (180) | .05 (1,3) | -40°C - 85°C | -20°C | 1000 | Standard |
| CT8BK40-C | 8.9 (226) | .14 (3,6) | .062 (1,6) / 2.00 (50,8) | 40 (180) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | UV Resistant Black |
| CT8BK40-M | 8.9 (226) | .14 (3,6) | .062 (1,6) / 2.00 (50,8) | 40 (180) | .05 (1,3) | -40°C - 85°C | -20°C | 1000 | UV Resistant Black |
| CT8NT40-C | 8.9 (226) | .14 (3,6) | .062 (1,6) / 2.00 (50,8) | 40 (180) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | Standard |
| CT8NT40-M | 8.9 (226) | .14 (3,6) | .062 (1,6) / 2.00 (50,8) | 40 (180) | .05 (1,3) | -40°C - 85°C | -20°C | 1000 | Standard |

3M™ Cable Ties



Standard Cable Ties (50lb, 220N) UL Listed TYPE 21S

| Part Number | Length in (mm) | Width in (mm) | Min/Max Bundle Dia. in (mm) | Tensile lb (N) | Thickness in (mm) | Temp. Rating | Min Install Temp | Bag Quantity | Description |
|-------------|----------------|---------------|-----------------------------|----------------|-------------------|--------------|------------------|--------------|--------------------|
| CT8BK50-C | 7.6 (193) | .18 (4,6) | .062 (1,6) / 1.87 (47,5) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | UV Resistant Black |
| CT8BK50-M | 7.6 (193) | .18 (4,6) | .062 (1,6) / 1.87 (47,5) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 1000 | UV Resistant Black |
| CT8NT50-C | 7.6 (193) | .18 (4,6) | .062 (1,6) / 1.87 (47,5) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | Standard |
| CT8NT50-M | 7.6 (193) | .18 (4,6) | .062 (1,6) / 1.87 (47,5) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 1000 | Standard |
| CT8RD50-C | 7.6 (193) | .18 (4,6) | .062 (1,6) / 1.87 (47,5) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | Standard Red |
| CT11BK50-C | 11.1 (282) | .18 (4,6) | .062 (1,6) / 3.00 (76,2) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | UV Resistant Black |
| CT11BK50-D | 11.1 (282) | .18 (4,6) | .062 (1,6) / 3.00 (76,2) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 500 | UV Resistant Black |
| CT11NT50-C | 11.1 (282) | .18 (4,6) | .062 (1,6) / 3.00 (76,2) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | Standard |
| CT11NT50-D | 11.1 (282) | .18 (4,6) | .062 (1,6) / 3.00 (76,2) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 500 | Standard |
| CT11RD50-C | 11.1 (282) | .18 (4,6) | .062 (1,6) / 3.00 (76,2) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | Standard Red |
| CT15BK50-C | 14.6 (371) | .18 (4,6) | .062 (1,6) / 4.00 (101,6) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | UV Resistant Black |
| CT15BK50-D | 14.6 (371) | .18 (4,6) | .062 (1,6) / 4.00 (101,6) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 500 | UV Resistant Black |
| CT15NT50-C | 14.6 (371) | .18 (4,6) | .062 (1,6) / 4.00 (101,6) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 100 | Standard |
| CT15NT50-D | 14.6 (371) | .18 (4,6) | .062 (1,6) / 4.00 (101,6) | 50 (220) | .05 (1,3) | -40°C - 85°C | -20°C | 500 | Standard |



Light Heavy Duty Cable Ties (120lb, 530N) UL Listed TYPE 21S

| Part Number | Length in (mm) | Width in (mm) | Min/Max Bundle Dia. in (mm) | Tensile lb (N) | Thickness in (mm) | Temp. Rating | Min Install Temp | Bag Quantity | Description |
|-------------|----------------|---------------|-----------------------------|----------------|-------------------|--------------|------------------|--------------|--------------------|
| CT8BK120-L | 9.0 (229) | .30 (7,6) | .06 (1,6) / 2.00 (50,8) | 120 (530) | .07 (1,8) | -40°C - 85°C | -20°C | 50 | UV Resistant Black |
| CT8NT120-L | 9.0 (229) | .30 (7,6) | .06 (1,6) / 2.00 (50,8) | 120 (530) | .07 (1,8) | -40°C - 85°C | -20°C | 50 | Standard |
| CT15BK120-C | 15.0 (381) | .30 (7,6) | .19 (4,8) / 4.00 (101,6) | 120 (530) | .07 (1,8) | -40°C - 85°C | -20°C | 100 | UV Resistant Black |
| CT15BK120-D | 15.0 (381) | .30 (7,6) | .19 (4,8) / 4.00 (101,6) | 120 (530) | .07 (1,8) | -40°C - 85°C | -20°C | 500 | UV Resistant Black |
| CT15NT120-C | 15.0 (381) | .30 (7,6) | .19 (4,8) / 4.00 (101,6) | 120 (530) | .07 (1,8) | -40°C - 85°C | -20°C | 100 | Standard |
| CT15NT120-D | 15.0 (381) | .30 (7,6) | .19 (4,8) / 4.00 (101,6) | 120 (530) | .07 (1,8) | -40°C - 85°C | -20°C | 500 | Standard |

3M™ Cable Ties



Heavy Duty Cable Ties (175lb, 800N) UL Listed TYPE 21

| Part Number | Length in (mm) | Width in (mm) | Min/Max Bundle Dia. in (mm) | Tensile lb (N) | Thickness in (mm) | Temp. Rating | Min Install Temp | Bag Quantity | Description |
|-------------|----------------|---------------|-----------------------------|----------------|-------------------|--------------|------------------|--------------|--------------------|
| CT24BK175-L | 24.0 (610) | .34 (8,6) | .19 (4,8) / 7.2 (183) | 175 (800) | .09 (2,3) | -40°C - 85°C | 0°C | 50 | UV Resistant Black |
| CT24NT175-L | 24.0 (610) | .34 (8,6) | .19 (4,8) / 7.2 (183) | 175 (800) | .09 (2,3) | -40°C - 85°C | 0°C | 50 | Standard |
| CT36BK175-L | 36.0 (914) | .34 (8,6) | .19 (4,8) / 11.0 (279) | 175 (800) | .09 (2,3) | -40°C - 85°C | 0°C | 50 | UV Resistant Black |
| CT36NT175-L | 36.0 (914) | .34 (8,6) | .19 (4,8) / 11.0 (279) | 175 (800) | .09 (2,3) | -40°C - 85°C | 0°C | 50 | Standard |
| CT48BK175-L | 47.9 (1217) | .36 (9,1) | .28 (7) / 14.3 (365) | 175 (800) | .07 (1,8) | -40°C - 85°C | 0°C | 50 | UV Resistant Black |
| CT48NT175-L | 47.9 (1217) | .36 (9,1) | .28 (7) / 14.3 (365) | 175 (800) | .07 (1,8) | -40°C - 85°C | 0°C | 50 | Standard |



Screw Mount Ties UL Listed TYPE 21

| Part Number | Length in (mm) | Width in (mm) | Min / Max Bundle Dia. in (mm) | Loop Tensile lb (N) | Thickness in (mm) | Temp. Rating | Mech. Tensile Lb (N) | Bag Quantity | Description |
|--------------|----------------|---------------|-------------------------------|---------------------|-------------------|--------------|----------------------|--------------|------------------------------|
| CT8BK50S-C | 8.6 (218) | .18 (4,6) | .062 (1,6) / 2.00 (50,8) | 50 (220) | .06 (1,5) | -40°C - 85°C | 50 (220) | 100 | UV Resistant Black # 10 stud |
| CT8BK50S-M | 8.6 (218) | .18 (4,6) | .062 (1,6) / 2.00 (50,8) | 50 (220) | .06 (1,5) | -40°C - 85°C | 50 (220) | 1000 | UV Resistant Black # 10 stud |
| CT8NT50S-C | 8.6 (218) | .18 (4,6) | .062 (1,6) / 2.00 (50,8) | 50 (220) | .06 (1,5) | -40°C - 85°C | 50 (220) | 100 | Mounting # 10 stud |
| CT8NT50S-M | 8.6 (218) | .18 (4,6) | .062 (1,6) / 2.00 (50,8) | 50 (220) | .06 (1,5) | -40°C - 85°C | 50 (220) | 1000 | Mounting # 10 stud |
| CT15BK50S-L | 15.1 (384) | .18 (4,6) | .062 (1,6) / 4.00 (102,0) | 50 (220) | .06 (1,5) | -40°C - 85°C | 50 (220) | 50 | UV Resistant Black # 10 stud |
| CT15BK50S-D | 15.1 (384) | .18 (4,6) | .062 (1,6) / 4.00 (102,0) | 50 (220) | .06 (1,5) | -40°C - 85°C | 50 (220) | 500 | UV Resistant Black # 10 stud |
| CT15NT50S-L | 15.1 (384) | .18 (4,6) | .062 (1,6) / 4.00 (102,0) | 50 (220) | .06 (1,5) | -40°C - 85°C | 50 (220) | 50 | Mounting #10 stud |
| CT15NT50S-D | 15.1 (384) | .18 (4,6) | .062 (1,6) / 4.00 (102,0) | 50 (220) | .06 (1,5) | -40°C - 85°C | 50 (220) | 500 | Mounting #10 stud |
| CT15NT120S-L | 15.7 (399) | .30 (7,6) | .19 (4,8) / 4.00 (102,0) | 120 (530) | .07 (1,8) | -40°C - 85°C | 18 (80) | 50 | Mounting #10 stud |
| CT15NT120S-D | 15.7 (399) | .30 (7,6) | .19 (4,8) / 4.00 (102,0) | 120 (530) | .07 (1,8) | -40°C - 85°C | 18 (80) | 500 | Mounting #10 stud |

3M™ Cable Ties

Mounting Bases

| Part Number | Dimensions LxWxH in (mm) | Slot Width in (mm) | Slot Height in (mm) | Color | Mount Type | Bag Quantity | Material |
|---------------|---------------------------------|-----------------------|---------------------------|--------------------|-------------------------|-----------------|----------|
| CTB75X75NTA-C | .74x.74x.22 (19x19x5,6) | .21 (5,3) | .06 (1,5) | Natural | Foam Backed Adhesive | 100 | Nylon |
| CTB75X75BKA-C | .74x.74x.22 (19x19x5,6) | .21 (5,3) | .06 (1,5) | UV Resistant black | Foam Backed Adhesive | 100 | Nylon |
| CTB1X1NTA-C | .99x.99x.22 (25x25x5,8) | .21 (5,3) | .06 (1,5) | Natural | Foam Backed Adhesive | 100 | Nylon |
| CTB1X1BKA-C | .99x.99x.23 (25x25x5,8) | .21 (5,3) | .06 (1,5) | UV Resistant black | Foam Backed Adhesive | 100 | Nylon |
| CTB2X1BGA-C | 2.0x1.0x.35 (51x25x8,9) | .21 (5,3) | .18 (4,5) | Beige | Foam Backed Adhesive | 100 | ABS |
| CTB1X1BGA-C | 1.0x1.2x.15 (25x25x3,8) | .21 (5,3) | .06 (1,5) | Beige | Foam Backed Adhesive | 100 | ABS |
| CTB60X40NTS-C | .60x.41x.28 (15x10x7,0) | .21 (5,3) | .06 (1,5) | Natural | Screw Mount | 100 | Nylon |
| CTB87X62NTS-C | .87x.62x.38 (22x16x10) | .35 (8,9) | .10 (2,5) | Natural | Screw Mount | 100 | Nylon |

Availability

Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1.800.245.3573.

Shelf Life & Storage

3M™ Cable Ties have a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).

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