

# 3M™ Cable Ties

Data Sheet

June 2015

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## 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.

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## 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, and are suitable for use in Air Handling Spaces (plenums) in accordance with Section 300.22 of the National Electric Code. (Exception: 48 inch Heavy Duty not Listed for use in Air Handling Spaces)

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.

U.L. File # E116841

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## 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.

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## Specifications

### Open Specifications

All ties must be U.L. Listed, Type 21, and tested to U.L. Standard 62275 for Cable Management Systems.

### Closed Specifications

Product must be 3M brand cable ties, U.L. Listed, Type 21, and tested to U.L. 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.

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# 3M™ Cable Ties



## Miniature Cable Ties (18lb, 80N)

| 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 (30 – 40lb, 135 – 180N)

| 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        |
|-------------|----------------|---------------|-----------------------------|----------------|-------------------|--------------|------------------|--------------|--------------------|
| CT6BK30-C   | 5.8 (147)      | .14 (3,6)     | .062 (1,6) / 1.25 (31,8)    | 30 (135)       | .05 (1,3)         | -40°C - 85°C | -20°C            | 100          | UV Resistant Black |
| CT6BK30-M   | 5.8 (147)      | .14 (3,6)     | .062 (1,6) / 1.25 (31,8)    | 30 (135)       | .05 (1,3)         | -40°C - 85°C | -20°C            | 1000         | UV Resistant Black |
| CT6NT30-C   | 5.8 (147)      | .14 (3,6)     | .062 (1,6) / 1.25 (31,8)    | 30 (135)       | .05 (1,3)         | -40°C - 85°C | -20°C            | 100          | Standard           |
| CT6NT30-M   | 5.8 (147)      | .14 (3,6)     | .062 (1,6) / 1.25 (31,8)    | 30 (135)       | .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)

| 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)

| 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)     | .19 (4,8) / 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)     | .19 (4,8) / 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)

| 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)         | 0°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)         | 0°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)         | 0°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)         | 0°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

| 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           |
| 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<br>LxWxH<br>in ( mm) | Slot<br>Width<br>in (mm) | Slot<br>Height<br>in (mm) | Color              | Mount Type              | Bag<br>Quantity | Material |
|---------------|---------------------------------|--------------------------|---------------------------|--------------------|-------------------------|-----------------|----------|
| CTB75X75NTA-C | .74x.74x.22<br>(19x19x5,6)      | .21 (5,3)                | .06 (1.5)                 | Natural            | Foam Backed<br>Adhesive | 100             | Nylon    |
| CTB75X75BKA-C | .74x.74x.22<br>(19x19x5,6)      | .21 (5,3)                | .06 (1.5)                 | UV Resistant black | Foam Backed<br>Adhesive | 100             | Nylon    |
| CTB1X1NTA-C   | .99x.99x.22<br>(25x25x5,8)      | .21 (5,3)                | .06 (1.5)                 | Natural            | Foam Backed<br>Adhesive | 100             | Nylon    |
| CTB1X1BKA-C   | .99x.99x.23<br>(25x25x5,8)      | .21 (5,3)                | .06 (1.5)                 | UV Resistant black | Foam Backed<br>Adhesive | 100             | Nylon    |
| CTB2X1BGA-C   | 2.0x1.0x.35<br>(51x25x8,9)      | .21 (5,3)                | .18 (4,5)                 | Beige              | Foam Backed<br>Adhesive | 100             | ABS      |
| CTB1X1BGA-C   | 1.0x1.2x.15<br>(25x25x3,8)      | .21 (5,3)                | .06 (1,5)                 | Beige              | Foam Backed<br>Adhesive | 100             | ABS      |
| CTB60X40NTS-C | .60x.41x.28<br>(15x10x7,0)      | .21 (5,3)                | .06 (1,5)                 | Natural            | Screw Mount             | 100             | Nylon    |
| CTB87X62NTS-C | .87x.62x.38<br>(22x16x10)       | .35 (8,9)                | .10 (2,5)                 | Natural            | Screw Mount             | 100             | Nylon    |

### Availability

Please contact your local distributor; available from [3M.com/electrical](http://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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### Important Notice

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### Electrical Markets Division

6801 River Place Blvd.  
Austin, TX 78726-9000  
800.245.3573  
FAX: 800.245.0329  
[www.3M.com/electrical](http://www.3M.com/electrical)

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