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3M™ Cable Ties

Data Sheet

March 2017

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, 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

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 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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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 (40lb, 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
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

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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

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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
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

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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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