

# K-SPEC® CABLE TIES

## Velcro Cable Ties

- Self-locking head and body design
- Provides a fast and easy way of application
- Nylon material
- Water Resistance. If immersed in water, it still could work, but with 50% reduction of the tensile
- Available in Black, White, Green, Yellow, Red, Blue



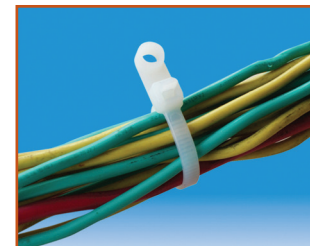
Part no.	Ball Diameter mm [Inch]	Length mm [Inch]	Max Bundle Diameter mm [inch]	Std. Pk. Qty.
VCT500_X	12.5 [.500]	130 [5.1]	35.0 [1.38]	10
VCT800_X	12.5 [.500]	205 [8.0]	59.0 [2.32]	10
VCT1200_X	17.0 [.670]	310 [12.0]	92.0 [3.60]	10

## Mount Head Cable Ties

- Material with Pure Nylon 6.6, UL 94V-2, Operation temp. -40°F~+185°F (-40°C~+85°C)



**RoHS PAHs Reach**



Part no.	Color	Width mm [Inch]	Length mm [Inch]	Max Bundle Diameter mm [inch]	Min Loop Tensile Kgs [lb]	Fastener	Std. Pk. Qty.
E540MH0C	Black	3.6 [.140]	150 [6.0]	35.5 [1.40]	18 [40]	M4 [8#]	100
E540MH0M	Black	3.6 [.140]	150 [6.0]	35.5 [1.40]	18 [40]	M4 [8#]	1000
E540MH9C	Natural	3.6 [.140]	150 [6.0]	35.5 [1.40]	18 [40]	M4 [8#]	100
E540MH9M	Natural	3.6 [.140]	150 [6.0]	35.5 [1.40]	18 [40]	M4 [8#]	1000
E750MH0C	Black	4.8 [8.0]	200 [8.0]	49.8 [1.96]	22 [50]	M5 [10#]	100
E750MH0M	Black	4.8 [8.0]	200 [8.0]	49.8 [1.96]	22 [50]	M5 [10#]	1000
E750MH9C	Natural	4.8 [8.0]	200 [8.0]	49.8 [1.96]	22 [50]	M5 [10#]	100
E750MH9M	Natural	4.8 [8.0]	200 [8.0]	49.8 [1.96]	22 [50]	M5 [10#]	1000
E1150MH0C	Black	4.8 [12.0]	305 [12.0]	82.8 [3.26]	22 [50]	M5 [10#]	100
E1150MH0D	Black	4.8 [12.0]	305 [12.0]	82.8 [3.26]	22 [50]	M5 [10#]	500
E1150MH9C	Natural	4.8 [12.0]	305 [12.0]	82.8 [3.26]	22 [50]	M5 [10#]	100
E1150MH9D	Natural	4.8 [12.0]	305 [12.0]	82.8 [3.26]	22 [50]	M5 [10#]	500
E1450MH0C	Black	4.8 [14.5]	370 [14.5]	103.8 [4.09]	22 [50]	M5 [10#]	100
E1450MH0D	Black	4.8 [14.5]	370 [14.5]	103.8 [4.09]	22 [50]	M5 [10#]	500
E1450MH9C	Natural	4.8 [14.5]	370 [14.5]	103.8 [4.09]	22 [50]	M5 [10#]	100
E1450MH9D	Natural	4.8 [14.5]	370 [14.5]	103.8 [4.09]	22 [50]	M5 [10#]	500
E14120MH0C	Black	7.6 [15.7]	400 [15.7]	109.2 [4.30]	55 [120]	M6 [1/4#]	100
E14120MH9C	Natural	7.6 [15.7]	400 [15.7]	109.2 [4.30]	55 [120]	M6 [1/4#]	100

# K-SPEC® CABLE TIES

Before you source cable ties or related nylon products, please make a correct choice due to different application purpose

The Cable Ties will be applied to:	Material	Function	Flam Class	Main Material Type	Application Temp.
General Purpose	Nylon 66 (PA66)	General	UL-94V2	Dupont 101F, Ascend 21 SPF(C)	-40°F~+185°F (-40°C~+85°C)

### How to choose the right cable tie

The most important characteristics of a cable tie are:

- the raw-material they are made of (chemicals, weather, and heat resistance, low temperature resistance, the flammability rating)
- the tensile strength they can stand
- the max diameter they can bundle
- the shape of the tie in case of particular applications

### Chemicals resistance

please ask for information about the chemical resistance, if you need to apply the cable ties into a special area

### UV (Weather resistance)

All polymers including the polyamides used for the production of cable ties are sensitive to UV radiation.

The most common additive used for protecting polyamides from UV radiation is carbon powder commonly known as "carbon black".

Natural Cable Ties have low resistance to UV radiation, but natural color usually can reflect the sunlight, so it could be used for general purpose outdoor. But not suggested for outdoor application

Black Cable Ties are additivated with carbon black. They have improved weather and UV radiation resistance and are better suitable for outdoor applications, but this is not enough to protect the material from the damage due to the UV-radiation for a long time. For these needs the weather resistance cable ties could be used.

And if for a long term of outdoor use, and we strongly suggest you to choose Strong UV resistance (weather resistance) material and our strong UV resistance material, it has been tested by UL as an available long term outdoor application.

### Temperature resistance

Polymers are also sensitive to temperatures.

All the material type above mentioned (except for Dupont MT409 & Ascend 41(47)), application of polyamide 6.6 cable ties is possible 26°F (-10°C), the polyamide becomes very brittle at temperatures below -40°F (-40°C). So for continuous use of low temperature, suggested with 26°F (-10°C). But Dupont MT409 & Ascend 41(47) could be applied with -40°F(-40°C) for a long term. The polyamide which can resistant and be applied with a high temperature, please read the related characters, and application temperature from the above table.

### Flamability

The UL 94 test , the Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances testing

The classifications relate to materials commonly used in manufacturing enclosures, structural parts and insulators found in consumer electronic products (V-0, V-1, V-2, HB, from the highest level to the lowest)

### Some Instructions for new UL standard 62275, and for your right choose of a cable ties.

#### • Loop tensile strength

Type 1 or 11 based,

No individual value shall be less than 50 % of the loop tensile strength declared after After heat aging,

After temperature cycling.

Type 2 or 21 based,

No individual value shall be less than 100 % of the loop tensile strength declared after After heat aging,

After temperature cycling.

#### • Minimum installation temperature and Operation temperature test

According to the new standard of UL62275, the minimum installation temperature, and operation temperature test should be made.

Different factory they will declare different minimum installation temperature, and operation temperature as well. so new UL will show such information and to show the quality of the products, and the characters of the products.

#### • Smoke and heat generation

AH-1: Suitable for use in air-handling spaces — 1 (plenums) (for Metallic component, like stainless steel cable ties)

AH-2: Suitable for use in air-handling spaces — 2 (plenums) (for Non-metallic component and Composite component, like nylon cable ties, cable ties fixing, coated stainless steel cable ties)

Tensile Strength, max bundle diameter, and other characteristics are listed in each table.

