

# Cable tie specification guide

## OPERATING TEMPERATURE

Always check the operating temperature, especially if the cable tie is to be installed in an application where extreme temperature may occur. Not all ties are made with the same material characteristics and some can become brittle at low temperatures and soften at high temperatures

### Legrand recommends

- Colring polyamide 6/6 black cable ties (operating temperature: -15°C to +120°C)
- Colson polyamide 12 black cable ties (operating temperature: -40°C to +100°C)

## ENVIRONMENT

Establish if the cable tie is being used inside or outside. Exposure to sunlight and UV rays can damage and break down the material causing the tie to weaken and fracture. Always choose a UV protected cable tie for external applications

### Legrand recommends

- Colring polyamide 6/6 black or Colson polyamide 12 black UV protected cable ties for external usage

## TENSILE STRENGTH

Consider the load that the cable tie will need to deal with. Tensile strength is the maximum stress that a material can withstand while being stretched or pulled before failing or breaking

### Legrand recommends

- Colson polyamide 12 black UV protected cable ties for heavy load applications

For more information please contact Legrand on:

Tel: 0845 605 4333

Fax: 0845 605 4334

Email: [uk-wdsales@legrand.co.uk](mailto:uk-wdsales@legrand.co.uk)

## HALOGENS

Are halogen free cable ties required?

Halogens are a group of highly reactive elements. Products containing halogens can produce highly dangerous gases when burned, and can therefore be life threatening in the event of a fire

### Legrand recommends

- Colring and Colson cable ties, both of which are halogen free

## INTERNAL OR EXTERNAL TEETH

Cable ties with external teeth are particularly useful in applications where internal teeth could cause damage. An example of this is for suspended lines, where damage to insulation needs to be avoided

### Legrand recommends

- Colson polyamide 12 black UV protected cable ties with external teeth

## EXTERNAL AGENTS

Ensure that the cable ties are resistant to any external agents they may be exposed to, such as oils, greases, petroleum products and chlorinated solvents. This is particularly important for extreme environments

### Legrand recommends

- Colring cable ties for environments where oils, greases, petroleum products and chlorinated solvents may be present
- Colson cable ties for environments where oils, greases, petroleum products, saline mist and diluted acids may be present

## FIRE PROPAGATION

Is there a fire risk? This will affect the type of cable tie required. We would always recommend fire resistant cable ties to guarantee the safety of persons and property in the event of a fire

### Legrand recommends

- All Legrand cable ties are flame retardant with a fire resistance to UL 94

## Colring® cable ties



0320 15/37/22/24

0320 42 supplied in blister pack

0320 65

0320 70

0320 72

0320 88

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### Pack Cat. Nos. Colring cable ties with internal teeth

With self-locking head  
Conform to EN 62275 type 1 (NF C 68-146)

#### Polyamide 6/6 colourless

Blister packed

Pack	Cat. Nos.	Width (mm)	Flat length (mm)	Max. Ø grip capacity (mm)	Min. Ø grip capacity (mm)	Weight (g)
1000	0320 30	2-4	95	18	1-6	0-26
1000	0320 31	2-4	140	33	1-6	0-37
1000	0320 32	2-4	180	46	1-6	0-47
1000	0320 37	3-5	140	33	1-6	0-57
1000	0320 38	3-5	180	46	1-6	0-73
100	0320 39	3-5	280	77	1-6	1-13
100	0320 40	3-5	360	102	1-6	1-46
1000	0320 42	4-6	180	46	1-6	1-20
100	0320 43	4-6	280	77	1-6	1-88

#### Polyamide 6/6 black

High temperature  
UV protected  
Blister packed

Pack	Cat. Nos.	Width (mm)	Flat length (mm)	Max. Ø grip capacity (mm)	Min. Ø grip capacity (mm)	Weight (g)
100	0320 12	2-4	95	18	1-6	0-26
100	0320 15	3-5	140	33	1-6	0-57
1000	0320 22	4-6	180	46	1-6	1-20
100	0320 24	4-6	360	102	1-6	2-38

### Accessories

#### Self-adhesive base

100 0320 65 For ties up to 4-6 mm max. width  
Colourless

#### Screw mounting bases

1000 0320 70 For ties 4-6 mm max. width  
Central fixing (screw Ø 4 mm)  
100 0320 72 For ties all widths  
Central fixing (screw Ø 5 mm)

#### Tool for Colring cable ties

1 0320 88 P 46 tool for cable ties  
Max. width 4-6 mm  
Direct adjustment of clamping tension by using the milled screw at the base of the handle  
After clamping, a blade automatically cuts the surplus length close to the head without leaving a burr

## Colson® cable ties



0319 16

0319 50

0319 55

0319 96

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### Pack Cat. Nos. Colson UV protected cable ties

Conform to EN 50146 and IEC 62275  
UV protected  
External teeth  
Black polyamide 12

Pack	Cat. Nos.	Width (mm)	Flat length (mm)	Max. Ø grip capacity (mm)	Min. Ø grip capacity (mm)	Weight (g)
100	0319 13	9	185	42	10	3-2
100	0319 16	9	262	62	26	4-7
100	0319 19	9	357	92	26	6-9
100	0319 20	9	498	140	74	12-7
100	0319 21	9	750	220	74	16-9
100	0319 22	6	119	25	4	1-6
100	0319 25	6	180	45	10	2-0

### Accessories

#### Screw-on base

100 0319 50 Black  
For ties max. width 9 mm.  
Height : 12 mm for cartridge-fired stud and rag-bolt  
Ø 6-35 mm, metal stud Ø 7 mm and countersunk screws Ø 5 mm

#### Wall plug base

100 0319 55 Black  
Ø 8 mm drilling

#### Tool for Colson cable ties

1 0319 96 Black and red finish  
Allows tightening and trimming of Colson ties

Download the full file at

<http://assets.kempstoncontrols.com/doc/Legrand%20Industrial%20and%20power%20protection%20catalogue.pdf>



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