

# 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:

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## 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



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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)				
		<b>Polyamide 6/6 colourless</b>				
		Blister packed				
		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
		<b>Polyamide 6/6 black</b>				
		High temperature UV protected Blister packed				
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

Pack	Cat. Nos.	Accessories	
		<b>Self-adhesive base</b>	
100	0320 65	For ties up to 4-6 mm max. width Colourless	
		<b>Screw mounting bases</b>	
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)	
		<b>Tool for Colring cable ties</b>	
		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	
1	0320 88	P 46 tool for cable ties	

## Colson® cable ties



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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				
		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
		<b>Accessories</b>				
		<b>Screw-on base</b>				
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				
		<b>Wall plug base</b>				
100	0319 55	Black Ø 8 mm drilling				
		<b>Tool for Colson cable ties</b>				
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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