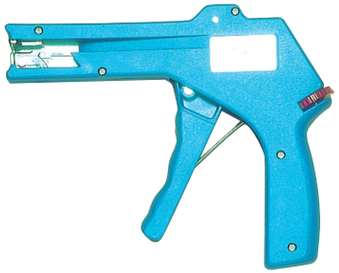
Application Notes (Tensioning Tools)

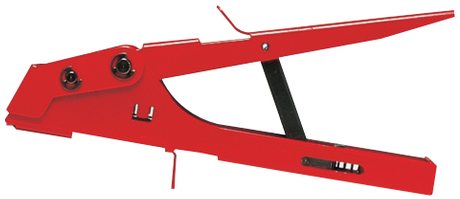
MK7TEN
- For nylon cable ties only
- This ergonomically light weight tool with paded hand grips is designed to reduce hand effort in heavy duty production work
- The MK7TEN can be used for T18 and T50 Series cables ties
- Maximum width of Tie: 4.8mm
- Dimensions (mm): 170 (L) x 135 (H) x 25 (W)
- Weight: 0.28kg



TG007
- Low cost tool covering a wide range of cable ties from T18 to T50 series.

RST
- Heavy duty tool for use with cable ties 3.6mm wide through to 9.0mm wide. Operator dependent tension with separate cutting edge.

MK9SST
- For stainless steel cable ties only
- Tensioning tool for heavy duty production work
- The MK9SST can be used for MBT8, MBT14, MBT20 and MBT27 Series cables ties
- Maximum width of Tie: 4.6 - 13mm
- Dimensions (mm): 190 (L) x 150 (H) x 40 (W)
- Weight: 0.48kg



MTT6
- Can be used with all metal ties but is especially recommended for use with MAT ties.

HellermannTyton Training Academy

HellermannTyton (Pty) Ltd

Cable Ties

Application Notes

HellermannTyton

How to select and use a Cable Tie

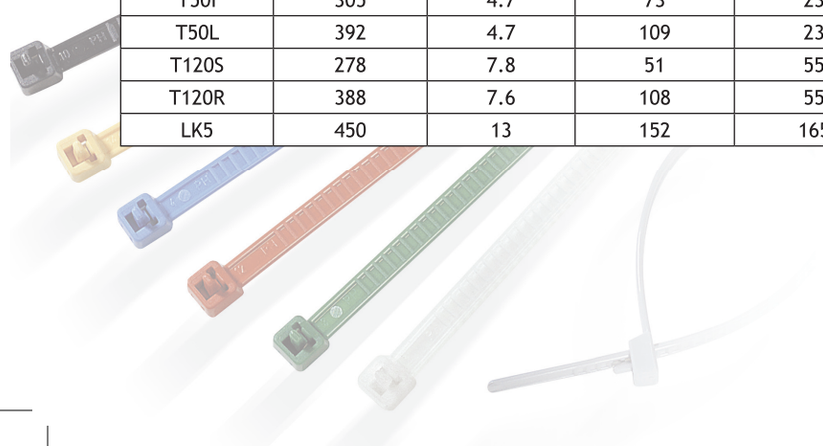
Selection

- Determine the diameter of the cable or cable bundle diameter to be secured or tied. (Refer to chart below)
- Establish the mass of loading to which the cable tie will be subjected to.
- Check the prevailing environmental conditions e.g. outdoors, indoors, acidic etc.
- For outdoors use black cable ties. They contain carbon black and UV stabilizers which protect them from the harmful UV rays.
- For acidic conditions, use polypropylene or stainless steel cable ties. Polypropylene ties are specially designed to withstand harsh acidic conditions.
- Stainless steel (MBT – Metal Ball-bearing) cable ties, have a non-releasable locking mechanism that offers infinite adjustment along the length of the tie. These ties can be used in the most hazardous of conditions or where the additional security, strength and fire resistance of metal fixing is required.
- There are 9 other colours to choose from: Blue, Brown, Green, Grey, Orange, Purple, Red, Yellow and Natural.

Selection Chart

Nylon and Polypropylene

Part Number	Length (mm)	Width (mm)	Max Bundle Diameter (mm)	Min Tensile Strength (kg)	Application Tool
T18R	104	2.5	18	8	MK7 / TG007
T30R	148	3.7	35	14	MK7 / TG007
T50R	198	4.6	50	23	MK7 / TG007
T50I	305	4.7	73	23	MK7 / TG007
T50L	392	4.7	109	23	MK7 / TG007
T120S	278	7.8	51	55	MK7 / TG007
T120R	388	7.6	108	55	MK7 / TG007
LK5	450	13	152	165	MK7 / TG007



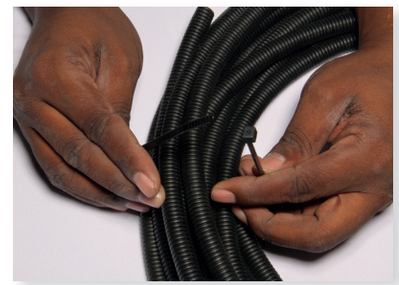
Stainless Steel (Grade 316)

Part Number	Length (mm)	Width (mm)	Max Bundle Diameter (mm)	Min Tensile Strength (kg)	Application Tool
MBT5S	127	4.6	25	670	RST / MK9SST
MBT8S	201	4.6	50	670	RST / MK9SST
MBT14S	362	4.6	102	670	RST / MK9SST
MBT20S	521	4.6	152	670	RST / MK9SST
MBT27S	681	4.6	203	670	RST / MK9SST
MBT33S	838	4.6	254	670	RST / MK9SST
MBT8H	201	7.9	50.8	1115	RST / MK9SST
MBT14H	362	7.9	102	1115	RST / MK9SST
BMT20H	521	7.9	152	1115	MK7 / TG007

Using a Cable Tie

Easy to use in 5 Quick steps:

1. Position the cable tie around the bundle of cables.



2. Insert the bent tail into the cable tie head.

3. Pull the cable tie by hand until it is about to reach its desired tightness around the bundle.
4. Use a cable tie tensioning tool to pull the remaining section to the desired tension. The tension can be pre-set on the tool.

5. Cut the cable tie near the head with the tensioning tool to leave a smooth finish and minimize injuries that could result through rough edges using a knife or side-cutter.