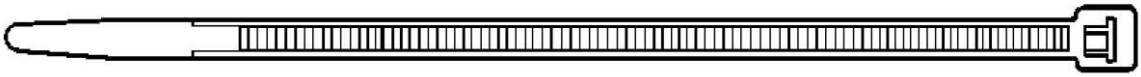
HAMER
Delivering Certainty

HellermannTyton

HellermannTyton Cable Ties



MATERIAL

Nylon Type 6/6 - a high grade engineering thermoplastic.

FEATURES

High strength, toughness, flexibility, excellent abrasion resistance and good electrical insulation.

ENVIRONMENTAL EFFECTS

Nylon is virtually unaffected by air at normal temperatures. Ultra-violet light, as present in sunlight, causes a gradual deterioration of mechanical properties and black colour is recommended for outdoor use.

PHYSICAL PROPERTIES

Moisture Content	Dependent upon temperature and humidity. Nylon 6/6 is hygroscopic, and therefore absorbs or releases moisture depending on it's environment. Thus, the moisture level of the material will affect tensile strength, stiffness and elongation of the product.
Tensile Strength	Varies with water content. e.g. at 23°C. 2.5% moisture = 790 kg/cm2 (11,200 psi)
Melting Point	260°C
Temperature Range	-40°C to + 85°C Continuous Service
Flammability	Rated as V-2 on Underwriters Laboratories Specification UL-94
Chemical Properties	Nylon 6/6 displays good resistance to all alkalis. Excellent resistance is shown to most organic solvents and to oil and petrol. In general Nylon 6/6 is only attacked by strong oxidising agents such as sulphuric and nitric acid. It is halogen free so it does not release dangerous gases, such as chlorine, bromine, fluorine and iodine when burned.

MATERIAL SPECIFICATIONS

	Nylon 6/6 General Purpose	Nylon 6/6 2% Carbon UV Stabilized
Tensile Strength	12,000	12,000
Continuous Operating Temp.	-40°C +85°C	-40°C +85°C
UL Flame Rating	94V-2	94V-2
Oxygen Index	28%	26%
Gamma Radiation Resistance	1 x 10^5 Rads	1 x 10^5 Rads
UV Resistance	Poor	Good
Chem. Resistance (1- Poor, 10 - Good)	6	6
- Hydrocarbons	8	8
- Chrolinated Hydrocarbons	6	6
- Acids	2	2
- Bases	6	6
- Salts	3	3

BLACK WEATHER RESISTANT TIES

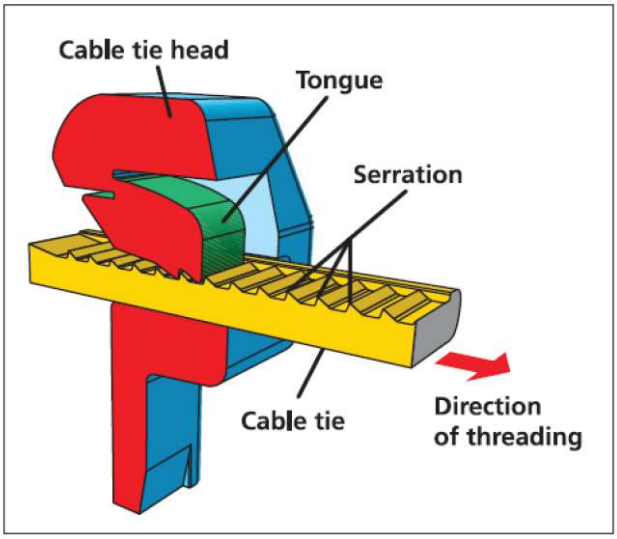
Material:- Nylon Type 6/6
High grade engineering thermoplastic with 2% carbon included for military specification. Carbon acts as an UV stabiliser, prolonging the life of the product under ultraviolet conditions.

All other characteristics are the same as standard Nylon 6/6.



Cable ties with plastic pawls
This technology is used in 90% of all polyamide (PA) cable ties applied by HellermannTyton. In order to cover a variety of applications, there are different variants of this system, for example: releasable versions, in-line versions, open head versions. These are one-piece cable ties, that is the pawl is moulded as an integral part of the cable tie, thereby building in inherent strengths.

Locking technology
Positive locking is achieved by engaging the pawl with the strap serrations. This allows the cable tie to perform to the published minimum tensile strength, that is the loading that the cable tie can hold under application.



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STANDARD TIES - MILITARY SPECIFICATIONS

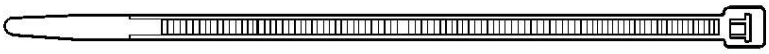
Hamer Code	Reference Number	Colour	Pack Size	Length mm	Width mm	Tensile Strength Kg	Max. Bundle Dia. mm.
HCT300	T18R Ties	Natural	100	100	2.5	8.1	16
HCT305	T18R-W Ties	Black	100	100	2.5	8.1	16
HCT310	T18I Ties	Natural	100	145	2.5	8.1	35
HCT315	T18L Ties	Natural	100	205	2.5	8.1	53
HCT320	T18L-W Ties	Black	100	205	2.5	8.1	53



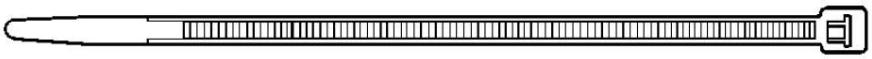
Hamer Code	Reference Number	Colour	Pack Size	Length mm	Width mm	Tensile Strength Kg	Max. Bundle Dia. mm.
HCT330	T30R Ties	Natural	100	150	3.5	13.6	35
HCT333	T30R Ties	Natural	1000	150	3.5	13.6	35
HCT335	T30R-W Ties	Black	100	150	3.5	13.6	35
HCT340	T30LL Ties	Natural	100	285	3.5	13.6	75
HCT343	T30LL-W Ties	Black	100	285	3.5	13.6	75



Hamer Code	Reference Number	Colour	Pack Size	Length mm	Width mm	Tensile Strength Kg	Max. Bundle Dia. mm.
HCT350	T50R Ties	Natural	100	202	4.6	22.7	56
HCT355	T50R-W Ties	Black	100	202	4.6	22.7	56



Hamer Code	Reference Number	Colour	Pack Size	Length mm	Width mm	Tensile Strength Kg	Max. Bundle Dia. mm.
HCT370	T50L Ties	Natural	100	390	4.6	22.7	109
HCT375	T50L-W Ties	Black	100	390	4.6	22.7	109



Hamer Code	Reference Number	Colour	Pack Size	Length mm	Width mm	Tensile Strength Kg	Max. Bundle Dia. mm.
HCT380	T60R Ties	Natural	100	301	4.8	22.7	73
HCT385	T60R-W Ties	Black	100	301	4.8	22.7	73

