

# CABLE RETENTION



## Heavy Duty Nylon Cable Tie – Smart® Tie

Smart® Tie is a patented heavy duty nylon cable tie, able to withstand system loads well in excess of 600kg. Manufactured by HCL, in a selection of materials; it is able to perform in the most aggressive environments around the world, both on and offshore. Lightweight, easy to use and non-corrosive; the Smart® Tie is the ideal cable tie solution for smaller diameters. The Smart® Tie cable tie can also be made from Nylon 11 which is a long life polymer used in the offshore & subsea industry. In addition the Smart® Tie is widely used in the downhole application as an alternative to metallic solutions.

### Applications

#### Onshore:

- Processing Plants
- HVAC
- General Industry

#### Offshore:

- Cable Protection
- Oil Rigs
- Subsea Marking

**Materials** – see section 7.2

#### Onshore:

General Industry – PA12

#### Downhole:

PK & PPS

#### Offshore/Marine:

PA12

Width	Material	Length Options mm	Min Diameter	Max Temperature	Max System Strength	Flammability
20mm/3/4"	PA66	450/600/750	60mm/2.36"	125°C/257°F	513kgf/1128lbf	V-2
20mm/3/4"	PK	600/750		100°C/212°F	565kgf/1220lbf	HB
20mm/3/4"	PA12			175°C/347°F	414kgf/911lbf	V-0
20mm/3/4"	PPS			125°C/257°F	514kgf/1130lbf	HB
32mm/1 1/4"	PK	550/850	60mm/2.36"	100°C/212°F	1270kgf/2800lbf	V-0
32mm/1 1/4"	PA12		175°C/347°F	984kgf/2169lbf	HB	
32mm/1 1/4"	PPS		1223kgf/2695lbf	V-0		

All weights, dimensions & quantities are subject to a 2.5% tolerance.

To add material selection to the HCL Part No: for Nylon 6.6, add "PA66", or for Nylon 11, add "PA11".

### Online Videos

Demonstration videos are available to view on our website.



Smart® Tie and SM-FT-2000-19 Hand Tool

### Installation Tools



SM-FT-2000-19 or SM-FT-2000-32



SM-FT-1000-20ST or SM-FT-1000-32ST



SM-FT-3000-19 or SM-FT-3000-32

