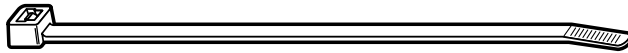
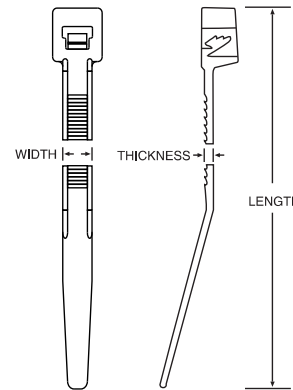
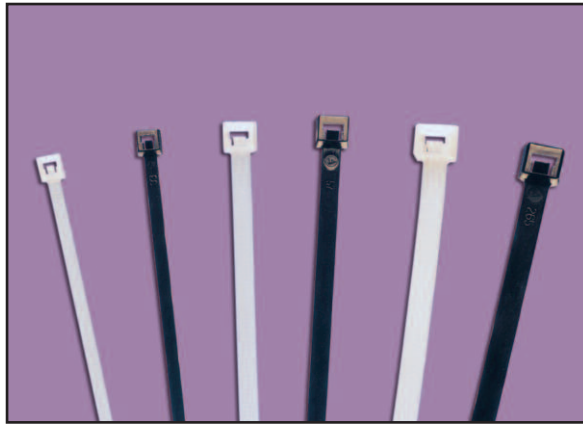


# STANDARD CABLE TIES

- **Faster** - low insertion and pull through force
- **Stronger** - high tensile strength achieved from one piece design
  - advanced pawl and teeth design
  - manufactured from filtered nylon reducing particle contamination
- **Easier** - angled tail provides quicker initial insertion alignment
  - tail finger grips allow easier handling and tightening
- **Safer** - rounded edges provides added safety and eliminates insulation damage
- **Consistent** - formulated molding processes



See page A-25 for mil-specs

## Miniature 18 lb. Natural, UV Black

Per Bag	Part Number	Colour & Material	Length Inch/mm	Width Inch/mm	Thickness Inch/mm	Tie Tensile	Diameter Inch/mm	UR-CSA Mil-Spec	Per Case
1,000	L-4189M	Natural	4.12/104.77	.095/2.413	.042/1.066	18 lb.	.875/22.225	UR-CSA MS3367-4*	10,000
100	L-4189C	Nylon							
1,000	L-4180M	UV Black	6.18/157.14	.095/2.413	.042/1.066	18 lb.	1.50/38.10	UR-CSA MS3367-4*	10,000
100	L-4180C	Nylon							
1,000	L-6189M	Natural	8.18/207.94	.095/2.413	.042/1.066	18 lb.	2.187/55.562	UR-CSA MS3367-4*	10,000
100	L-6189C	Nylon							
1,000	L-6180M	UV Black	8.18/207.94	.095/2.413	.042/1.066	18 lb.	2.187/55.562	UR-CSA MS3367-4*	10,000
100	L-6180C	Nylon							

Tolerance: .XXX = ±.005, .XX = ±.015, Fraction = ±1/32"





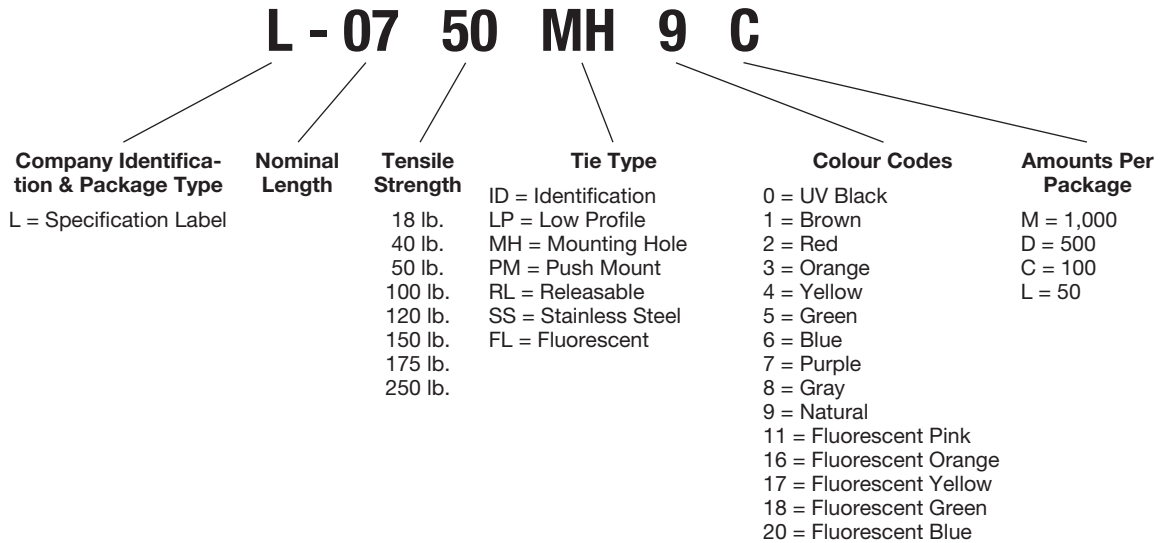
# STANDARD CABLE TIES

- Miniature 18 lb. Cable Ties . . . . .A-3
- Intermediate 30 lb. & 40 lb. Cable Ties . . . . .A-4
- Standard 50 lb. Cable Ties . . . . .A-4
- Heavy Duty 120 lb. Cable Ties . . . . .A-5
- Extra Heavy Duty 175 lb. Cable Ties . . . . .A-5
- ME.T Metal Tooth Cable Ties . . . . .A-6

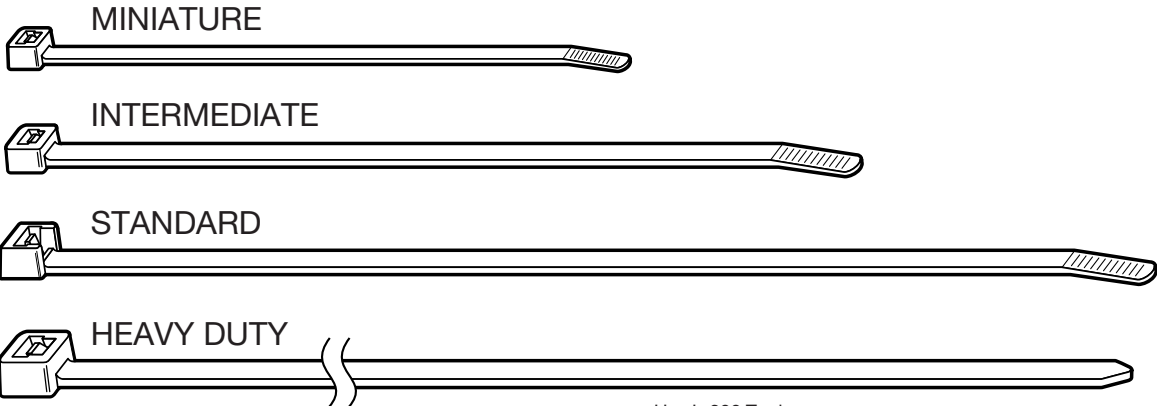
Techspan cable ties are manufactured from high quality nylon 6/6. The angled tail features finger grips for easy handling and alignment. The one-piece design, transition rails, and teeth provide a low insertion force while maintaining a high tensile strength, ensuring ease of use and durability. The 36" and 48" applications include HVAC duct straps, and are UL 181 B Listed.

- **Temp. Rating Nylon Cable Ties:** +85°C
- **UL Flame Rating:** 94 V-2

# READING TECHSPAN CABLE TIE PART NUMBERS



# MIL-SPEC CABLE TIES



Use L-300 Tool



Per Bag	Mil-Spec	Part #	Material	ID Code	Tool Setting	
100	MS-3367-1-0	L-7500C	UV Black Nylon	STD	6 to 8	
	MS-3367-1-2	L-7502C	Red Nylon			
	MS-3367-1-3	L-7503C	Orange Nylon			
	MS-3367-1-4	L-7504C	Yellow Nylon			
	MS-3367-1-5	L-7505C	Green Nylon			
	MS-3367-1-6	L-7506C	Blue Nylon			
	MS-3367-1-7	L-7507C	Purple Nylon			
	MS-3367-1-8	L-7508C	Gray Nylon			
	MS-3367-1-9	L-7509C	Natural Nylon			
	MS-3367-2-0	L-14500C	UV Black Nylon			
500	MS-3367-2-0	L-14500D	UV Black Nylon			
100	MS-3367-2-6	L-14506C	Blue Nylon			
	MS-3367-2-9	L-14509C	Natural Nylon			
500	MS-3367-2-9	L-14509D	Natural Nylon			
100	MS-3367-3-0	L-141200C	UV Black Nylon	HVY	5 to 8	
	MS-3367-3-2	L-141202C	Red Nylon			
	MS-3367-3-5	L-141205C	Green Nylon			
	MS-3367-3-9	L-141209C	Natural Nylon			
	MS-3367-4-0	L-4180C	UV Black Nylon	MIN	1 to 3	
	MS-3367-4-9	L-4189C	Natural Nylon			
	100	MS-3367-5-0	L-5300C	UV Black Nylon	INT	3 to 5
		MS-3367-5-1	L-5301C	Brown Nylon		
		MS-3367-5-2	L-5302C	Red Nylon		
		MS-3367-5-3	L-5303C	Orange Nylon		
		MS-3367-5-4	L-5304C	Yellow Nylon		
		MS-3367-5-5	L-5305C	Green Nylon		
		MS-3367-5-6	L-5306C	Blue Nylon		
		MS-3367-5-8	L-5308C	Gray Nylon		
50	MS-3367-5-9	L-5309C	Natural Nylon			
	MS-3367-6-9	L-301209L	Natural Nylon	HVY	5 to 8	
MS-3367-6-0	L-301200L	UV Black Nylon				
100	MS-3367-7-0	L-11500C	UV Black Nylon	STD	6 to 8	
500	MS-3367-7-0	L-11500D				
100	MS-3367-7-2	L-11502C	Red Nylon			
	MS-3367-7-9	L-11509C	Natural Nylon			
500	MS-3367-7-9	L-11509D				

- CSA 213040
  - UL File No. E303945
- Recognized Components  
 Wire Positioning Devices  
 Mounting Pads  
 Cable Ties



# MATERIALS FOR MOLDED ASSEMBLY HARDWARE



Property	ASTM Method	Test Condition	Units	Molded 6/6 Nylon	Nylon
Tensile Strength	D638	+73°F; 50% RH	kpsi	11.2	9.0
Elongation at Break	D638	+73°F; 50% RH	%	≥300	200
Yield Strength	D638	+73°F; 50% RH	kpsi	8.5	9.0
Shear Strength	D732	Dry As Molded (DAM)	kpsi	9.6	10.5
Deformation Under Load	D621	2,000 psi +122°F; DAM	%	1.4	1.2
IZOD Impact	D256	+73°F; 50% RH	ft lb/in	2.1	2.0
Tensile Impact Strength	D1822	+73°F; Long Specimen; DAM	ft lb/in <sup>2</sup>	240	N.R.
Melting Point	D789	Fisher-Johns	°F	491	491
Thermal Linear Expansion	D696	DAM	in/in/°F	4 x 10 <sup>-5</sup>	N.R.
Thermal Conductivity	-	DAM Conche-Fitch	BTU - in/ h • ft <sup>2</sup> • °F	1.7	1.7
Brittleness Temperature	D746	50% RH	°F	-85	-62
Oxygen Index	D2863	DAM 50% RH	%O <sub>2</sub>	28 31	25 31
UL Flammability	UL 94	DAM 50% RH	- -	V-2 V-2	V-2 V-2

- Material data as provided by our suppliers.
- Tests conducted on 1/4" specimens.
- N.R. = Not Reported

## NBS Smoke Generation For 6/6 Nylon

Sample Thickness	UL Flammability	Energy Source	Specific Optical Density	
			at Maximum Smoke Accumulation	at 2 Minutes
1/16"	94 V-2	Radiant (2.5 watts/sq cm)	13	0
1/8"	94 V-2	Radiant Plus Flaming Gas Jets	26	1

- Results as provided by National Bureau of Standards (NBS). Results may not be directly correlated with larger fires, such as burning buildings. Materials should be tested to your application.

## Temperature Index For Molded Nylons

Material	Minimum Thickness (in)	Temperature Index		Hot Wire Ignition (sec)
		Electrical (°C)	Mechanical w/o Impact (°C)	
6/6 Nylon	.028	125	65	11.8
	.058	125	85	15.0
UV Black Nylon	.120	125	85	35.0
	.240	125	85	35.0
Heat Stabilized Nylon	.028	130	95	9.0
	.058	130	105	11.0
	.120	130	110	20.0

- Temperature Index is the temperature at which the specific property will decrease to one-half its original value after 60,000 hours exposure at that temperature.

### About Nylon...

Nylon possess an outstanding balance of properties combining strength, moderate stiffness, high service temperature and a high level of toughness. Nylon is particularly resistant to repeated impact, has a low co-efficient of friction and excellent abrasion resistance.

Nylon is resistant to fuels, lubricants and most chemicals, but is attacked by phenols, strong acids and oxidizing agents. Contact your Techspan Customer Service Representative or your Techspan Distributor for chemical data relative to your application.

Nylon is inherently susceptible to environmental conditions. Techspan Cable Ties are moisturized to optimum performance levels at machine-side and should be stored in cool dry areas out of direct sunlight. Cable Ties are packaged in plastic bags to contain moisture and should remain sealed until ready for use.