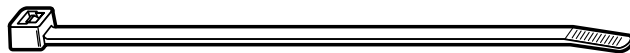
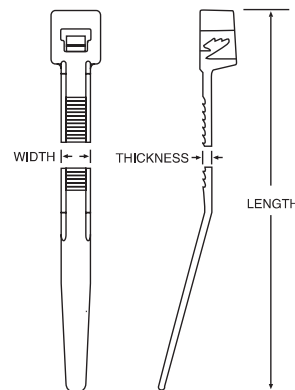
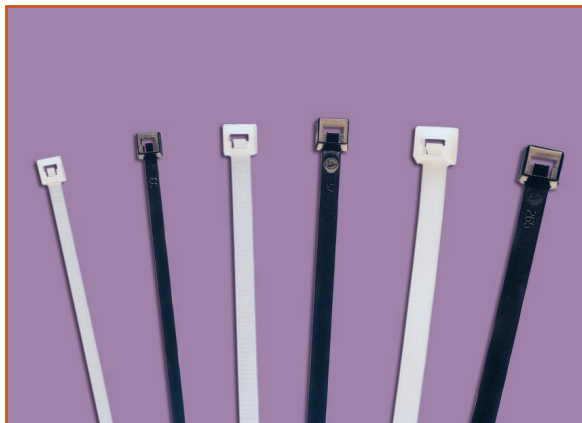


STANDARD CABLE TIES

- **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



Miniature 18lb Natural, UV Black

Per Bag	Part no.	Colour & Material	Length Inch/mm	Width Inch/mm	Thickness Inch/mm	Tie Tensile	Diameter Inch/mm	UL-CSA Mil-Spec	Per Case	ANSI/UL 62275 TYPE
1,000	L-4189M	Natural Nylon	4.12/104.77	.095/2.413	.042/1.066	18lb	.875/22.225	UL-CSA MS3367-4*	10,000	21
100	L-4189C									
1,000	L-4180M	UV Black Nylon	4.12/104.77	.095/2.413	.042/1.066	18lb	.875/22.225	UL-CSA MS3367-4*	10,000	21
100	L-4180C									
1,000	L-6189M	Natural Nylon	6.18/157.14	.095/2.413	.042/1.066	18lb	1.50/38.10	UL-CSA	10,000	21
100	L-6189C									
1,000	L-6180M	UV Black Nylon	6.18/157.14	.095/2.413	.042/1.066	18lb	1.50/38.10	UL-CSA	10,000	21
100	L-6180C									
1,000	L-8189M	Natural Nylon	8.18/207.94	.095/2.413	.042/1.066	18lb	2.187/55.562	UL-CSA	10,000	21
100	L-8189C									
1,000	L-8180M	UV Black Nylon	8.18/207.94	.095/2.413	.042/1.066	18lb	2.187/55.562	UL-CSA	10,000	21
100	L-8180C									

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

MADE IN U.S.A.



ANSI/UL
62275
TYPE 21
AH-2
POSITIONING
DEVICE

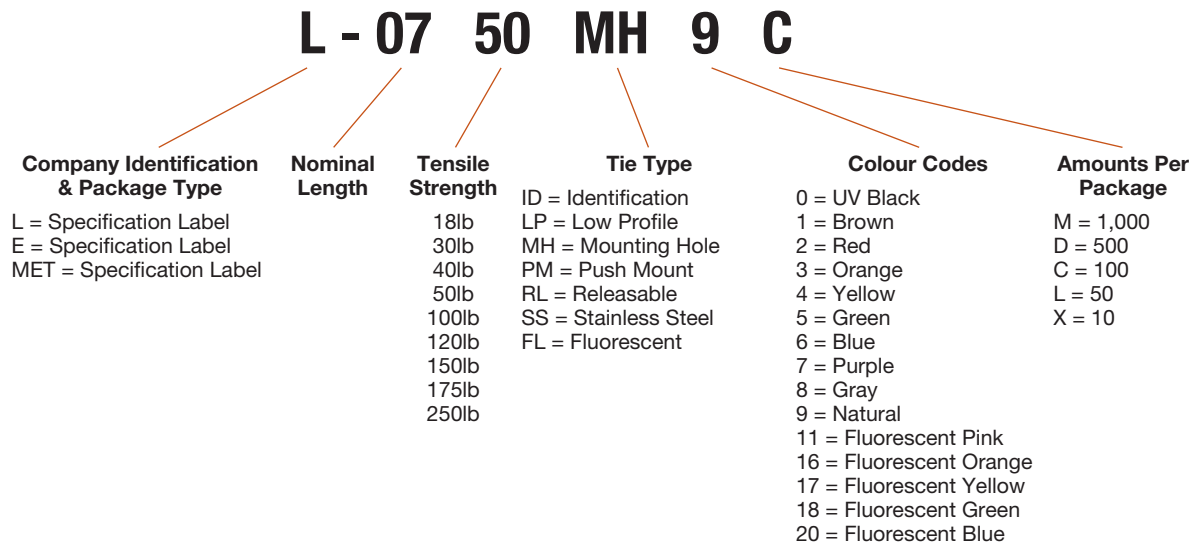
ANSI/UL
62275
TYPE 21S
AH-2
SUPPORTING
DEVICE

STANDARD CABLE TIES

ElecDirect 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.

- **Operating Temp. Rating Nylon Cable Ties:** -40°C to +85°C
- **UL Flame Rating:** 94 V-2
- **Minimum Installation Temp.:** "L" Ties -20°C, "E" Ties 0°C
- **Plenum Rating:** AH-2

READING ELECDIRECT CABLE TIE PART NUMBERS

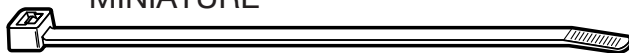


ANSI/UL
62275
TYPE 21
AH-2
POSITIONING
DEVICE

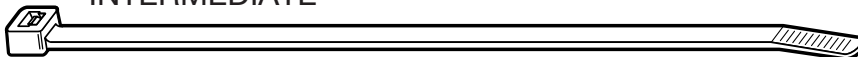
ANSI/UL
62275
TYPE 21S
AH-2
SUPPORTING
DEVICE

MIL-SPEC CABLE TIES

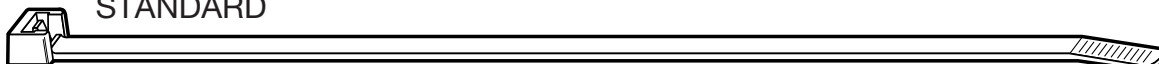
MINIATURE



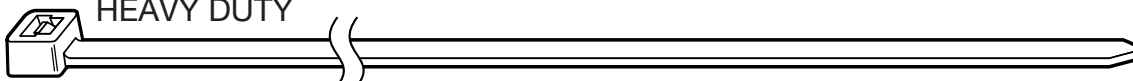
INTERMEDIATE



STANDARD



HEAVY DUTY



Per Bag	Mil-Spec	Part no.	ME.T Ties	Material	ID Code	Tool Setting
100	MS-3367-1-0	L-7500C	MET-7500C	UV Black Nylon	STD	6 to 8
	MS-3367-1-2	L-7502C	MET-7502C	Red Nylon		
	MS-3367-1-3	L-7503C	MET-7503C	Orange Nylon		
	MS-3367-1-4	L-7504C	MET-7504C	Yellow Nylon		
	MS-3367-1-5	L-7505C	MET-7505C	Green Nylon		
	MS-3367-1-6	L-7506C	MET-7506C	Blue Nylon		
	MS-3367-1-7	L-7507C	MET-7507C	Purple Nylon		
	MS-3367-1-8	L-7508C	MET-7508C	Gray Nylon		
	MS-3367-1-9	L-7509C	MET-7509C	Natural Nylon		
	MS-3367-2-0	L-14500C	MET-14500C	UV Black Nylon		
500	MS-3367-2-0	L-14500D	MET-14500D	UV Black Nylon		
100	MS-3367-2-6	L-14506C	MET-14506C	Blue Nylon		
	MS-3367-2-9	L-14509C	MET-14509C	Natural Nylon		
500	MS-3367-2-9	L-14509D	MET-14509D	Natural Nylon		
100	MS-3367-3-0	L-141200C	MET-141200C	UV Black Nylon	HVY	5 to 8
	MS-3367-3-2	L-141202C	MET-141202C	Red Nylon		
	MS-3367-3-5	L-141205C	MET-141205C	Green Nylon		
	MS-3367-3-9	L-141209C	MET-141209C	Natural Nylon		
	MS-3367-4-0	L-4180C		UV Black Nylon	MIN	1 to 3
	MS-3367-4-9	L-4189C		Natural Nylon		
	MS-3367-5-0	L-5400C	MET-5400C	UV Black Nylon	INT	3 to 5
	MS-3367-5-1	L-5401C	MET-5401C	Brown Nylon		
	MS-3367-5-2	L-5402C	MET-5402C	Red Nylon		
	MS-3367-5-3	L-5403C	MET-5403C	Orange Nylon		
	MS-3367-5-4	L-5404C	MET-5404C	Yellow Nylon		
	MS-3367-5-5	L-5405C	MET-5405C	Green Nylon		
	MS-3367-5-6	L-5406C	MET-5406C	Blue Nylon		
	MS-3367-5-8	L-5408C	MET-5408C	Gray Nylon		
	MS-3367-5-9	L-5409C	MET-5409C	Natural Nylon		
50	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	MET-11500C	UV Black Nylon	STD	6 to 8
500	MS-3367-7-0	L-11500D	MET-11500D	UV Black Nylon		
100	MS-3367-7-2	L-11502C	MET-11502C	Red Nylon		
	MS-3367-7-9	L-11509C	MET-11509C	Natural Nylon		
500	MS-3367-7-9	L-11509D	MET-11509D	Natural Nylon		

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



Use L-300 Tool

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
Elongation at Break	D638	+73°F; 50% RH	%	≥300	200
Yield Strength	D638	+73°F; 50% RH	kpsi	8.5	9
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
Tensile Impact Strength	D1822	+73°F; Long Specimen; DAM	ft lb/in ²	240	N.R.
Melting Point	D789	Fisher-Johns	°F	491	491
Thermal Linear Expansion	D696	DAM	in/in/°F	4 x 10 ⁻⁵	N.R.
Thermal Conductivity	—	DAM Conche-Fitch	BTU - in/ h • ft ² • °F	1.7	1.7
Brittleness Temperature	D746	50% RH	°F	-85	-62
Oxygen Index	D2863	DAM 50% RH	%O ₂	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	0.028	125	65	11.8
UV Black Nylon	0.058	125	85	15.0
	0.120	125	85	35.0
	0.240	125	85	35.0
Heat Stabilized Nylon	0.028	130	95	9.0
	0.058	130	105	11.0
	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.

Nylon is inherently susceptible to environmental conditions. ElecDirect 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.