

MIL-Spec Cross Reference for PLT and BT Series Nylon Cable Ties

The products listed in the following table meet all of the testing requirements of Aerospace Standard SAE-AS23190A (formerly MIL-S-23190E) and the

dimensional requirements of Aerospace Standards SAE-AS33671 (formerly MS3367) and SAE-AS3681 (formerly MS3368).

Mil. Std. Number	Colour	PLT Series Pan-Ty®	BT Series Dome-Top®
MS3367-1-0	Black	PLT2S-C00, -M00	-
MS3367-1-1	Brown	PLT2S-C1, -M1	BT2S-M1
MS3367-1-2	Red	PLT2S-C2, -M2	BT2S-M2
MS3367-1-3	Orange	PLT2S-C3, -M3	BT2S-M3
MS3367-1-4	Yellow	PLT2S-C4, -M4	BT2S-M4
MS3367-1-5	Green	PLT2S-C5, -M5	BT2S-M5
MS3367-1-6	Blue	PLT2S-C6, -M6	BT2S-M6
MS3367-1-7	Purple	PLT2S-C7, -M7	BT2S-M7
MS3367-1-8	Grey	PLT2S-C8, -M8	BT2S-M8
MS3367-1-9	Natural	PLT2S-C, -M, -VMR	BT2S-C, -M
MS3367-2-0	Black*	PLT4S-C00	-
MS3367-2-1	Brown	PLT4S-M1	-
MS3367-2-2	Red	PLT4S-C2, -M2	BT4S-M2
MS3367-2-3	Orange	PLT4S-C3, -M3	BT4S-M3
MS3367-2-4	Yellow	PLT4S-C4Y, -M4Y	BT4S-M4Y
MS3367-2-5	Green	PLT4S-C5, -M5	BT4S-M5
MS3367-2-6	Blue	PLT4S-C6, -M6	BT4S-M6
MS3367-2-7	Purple	PLT4S-C7, -M7	BT4S-M7
MS3367-2-8	Grey	PLT4S-C8, -M8	BT4S-M8
MS3367-2-9	Natural	PLT4S-C, -M	BT4S-C, -M
MS3367-3-0	Black*	PLT4H-L00, -TL00	-
MS3367-3-1	Brown	PLT4H-TL1	-
MS3367-3-2	Red	PLT4H-TL2	-
MS3367-3-3	Orange	PLT4H-TL3	-
MS3367-3-4	Yellow	PLT4H-TL4	-
MS3367-3-5	Green	PLT4H-TL5	-
MS3367-3-6	Blue	PLT4H-TL6	-
MS3367-3-9	Natural	PLT4H-L, -C -TL	BT4LH-L, -TL
MS3367-4-0	Black*	PLT1M-C00, M00, XMR00	-
MS3367-4-0	Black*	PLT1.5M-XMR00	-
MS3367-4-1	Brown	PLT1M-C1, M1, -XMR1	BT1M-M1
MS3367-4-2	Red	PLT1M-C2, M2, -XMR2	BT1M-M2
MS3367-4-3	Orange	PLT1M-C3, -M3, -XMR3	BT1M-M3

* Denotes weather resistant to ASTM D 4066-94B

MIL-Spec Cross reference for PLT and BT Series Nylon Cable Ties

The products listed in the following table meet all of the testing requirements of Aerospace Standard SAE-AS23190A (formerly MIL-S-23190E) and the

dimensional requirements of Aerospace Standards SAE-AS33671 (formerly MS3367) and SAE-AS3681 (formerly MS3368).

Mil. Std. Number	Colour	PLT Series Pan-Ty®	BT Series Dome-Top®
MS3367-4-4	Yellow	PLT1M-C4Y, -M4Y, -XMR4Y	BT1M-M4Y
MS3367-4-5	Green	PLT1M-C5, -M5, -XMR5	BT1M-M5
MS3367-4-6	Blue	PLT1M-C6, -M6, -XMR6	BT1M-M6
MS3367-4-7	Purple	PLT1M-C7, -M7, -XMR7	BT1M-M7
MS3367-4-8	Grey	PLT1M-C8, -M8, -XMR8	BT1M-M8
MS3367-4-9	Natural	PLT1M-C, -M, -XMR	BT1M-C, -M, -XMR
MS3367-4-9	Natural	PLT7M-C, -M	-
MS3367-4-9	Natural	PLT1.5M-XMR	BT1.5M-XMR
MS3367-5-0	Black*	PLT1.5I-M00	-
MS3367-5-1	Brown	PLT1.5I-C1, -M1	BT1.5I-M1
MS3367-5-2	Red	PLT1.5I-C2, -M2	BT1.5I-M2
MS3367-5-3	Orange	PLT1.5I-C3, -M3	BT1.5I-M3
MS3367-5-4	Yellow	PLT1.5I-C4Y, -M4Y	BT1.5I-M4Y
MS3367-5-5	Green	PLT1.5I-C5, -M5	BT1.5I-M5
MS3367-5-6	Blue	PLT1.5I-C6, -M6	BT1.5I-M6
MS3367-5-7	Purple	PLT1.5I-C7, -M7	BT1.5I-M7
MS3367-5-8	Grey	PLT1.5I-C8, -M8	BT1.5I-M8
MS3367-5-9	Natural	PLT1.5-C, -M	BT1.5-C, -M
MS3367-6-9	Natural	PLT8LH-L, -C	BT8LH-L, -C
MS3367-6-9	Natural	-	BT9LH-L, -C
MS3367-7-0	Black*	PLT1.5I-M00	-
MS3367-7-1	Brown	PLT3S-M1	-
MS3367-7-2	Red	PLT3S-C2, M2	BT3S-C2
MS3367-7-3	Orange	PLT3S-M3	-
MS3367-7-4	Yellow	PLT3S-M4Y	-
MS3367-7-5	Green	PLT3S-M5	-
MS3367-7-6	Blue	PLT3S-M6	-
MS3367-7-7	Purple	PLT3S-M7	-
MS3367-7-8	Grey	PLT3S-M8	-
MS3367-7-9	Natural	PLT3S-C, -M	BT3S-C, -M
MS3367-8-9	Natural	PLT5H-L, -C	-
MS3367-9-9	Natural	PLT6H-L, -C	-
MS3367-11-9	Natural	PLT8H-L, -C	-

* Denotes weather resistant to ASTM D 4066-94B

Cable Management

MLT Series

Pan-Steel® Steel Cable Ties

Features and Benefits

Perfect for indoor, outdoor, underground, offshore and RMT applications offering excellent resistance to abrasion, radiation, weathering, corrosion and extreme temperatures. Stainless Steel ties are self-locking for fast cabling and can be installed by hand or with tooling.

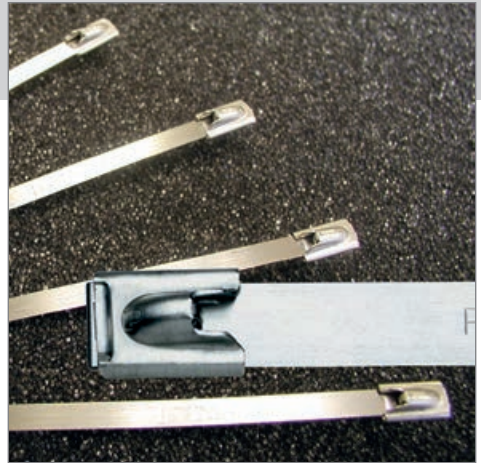
Manufactured with fully rounded sides and no sharp edges, making them safe to handle during installation. Strap goes through a secondary process which removes the top and bottom corners of the material.

Features & Benefits

- Self locking design speeds installation and locks into place at any length along the body.
- Provides a strong durable method of cable bundling.
- Fully radiused sides and edges.
- Temperature tolerance -80°C to 538°C

Material Options

- Grade AISI 304 Stainless Steel, for general purpose applications. Supplied as standard.
- Grade AISI 316 Stainless Steel, for the most corrosive environments. Add suffix '316' to the part number.



Approvals

- UL Listed E56854
- SAE AS 23190 (formerly MS23109E)
- Det Norske Cert. # E-6540, E-6539 (AISI 316)
- Lloyds Cert. # 89/60123
- MIL-STD-202
- MIL-STD-167 and MIL-S-901D for Extra heavy and super heavy cross sections.

Self Locking Head Construction

***Aggressive Locking Head**
Quicker locking, tighter installation

***Lead in Design**
Wider entrance for easier threading

Unique Locking Ramp
Assures locking in any position

***Innovative Displacement Lock**
Assures superior locking strength

Extended Retaining Tab
Increases overall tie strength

* Patented

Part Number System

Various packaging and material options are also available as outlined below;

	MLT	6	Size. Approx bundle Dia. (inch)
	MLT6	S	Standard
		LH	Light Heavy
		H	Heavy
		EH	Extra Heavy
		SH	Super Heavy
	MLT6S-	CP	Standard packaging 100 pcs.
		L	Standard packaging of 50 pcs.
		Q	Standard packaging of 25 pcs.
	MLT6S-CP	-	AISI 304 Stainless Steel (blank)
		316	AISI 316 Stainless Steel

Additional Variants Available

- **LH.** Light Heavy cross section, offering tensile strength up to 1112N.
- **EH.** Extra Heavy cross section, offering tensile strength up to 3115N.
- **SH.** Super Heavy cross section, offering tensile strength up to 4005N.

Available in broadly similar sizes as per table below. Other lengths are also available to special order.

For enquiries on standard or specials please contact us for further details.

MLT6S-CP316 Part Number example

Stainless Steel cable tie, for max bundle dia. of 152mm, packed in 100pcs, AISI 316 grade.

Order Description	Length	Width	Thick	Max. Bundle Dia.	Min. Bundle Dia.	Min. Tensile Strength	Recommended Installation Tool
MLT - Standard Cross Section Ties - AISI 304 Stainless Steel							
MLT1S-CP	127	4.6	0.25	25	12.7	890N	GS4MT, HTMT, PPTMT, ST2MT.
MLT2S-CP	201	4.6	0.25	51	12.7		
MLT2.7S-CP	259	4.6	0.25	69	12.7		
MLT4S-CP	362	4.6	0.25	102	12.7		
MLT6S-CP	521	4.6	0.25	152	12.7		
MLT8S-CP	679	4.6	0.25	203	12.7		
MLT10S-CP	838	4.6	0.25	254	12.7		
MLT12S-Q	998	4.6	0.25	304	12.7		
MLT14S-Q	1156	4.6	0.25	355	12.7		
MLT15S-Q	1250	4.6	0.25	380	12.7		
MLT - Heavy Cross Section Ties - AISI 304 Stainless Steel							
MLT2H-LP	201	7.9	0.25	51	12.7	2000N	GS4MT, ST2MT, HTMT, PPTMT, PBMT
MLT2.7H-LP	259	7.9	0.25	69	12.7		
MLT4H-LP	362	7.9	0.25	102	12.7		
MLT6H-LP	521	7.9	0.25	152	12.7		
MLT8H-LP	679	7.9	0.25	203	12.7		
MLT10H-LP	838	7.9	0.25	254	12.7		
MLT12H-Q	998	7.9	0.25	304	12.7		
MLT14H-Q	1156	7.9	0.25	355	12.7		

Dimension in millimeters unless otherwise stated.

Cable Management

MLTC and MLTFC Series

Pan-Steel® Coated Steel Cable Ties

Features and Benefits

Ideal for applications where extra protection is required from edges and dissimilar metal applications. With the advantages of the MLT range on the previous page

Features & Benefits

- **MLTC:** Nylon 11 selective coating provides additional edge protection and prevents corrosion between dissimilar metals.
- **MLTFC:** Polyester overall coating, available in various colours for identification purposes, please contact us for information.
- Self-locking head design speeds installation and locks into place at any length along the tie body.
- AISI 316 Stainless steel.
- UV resistant, low smoke, halogen-free material.
- Temperature tolerance -40°C to + 140°C



Approvals

- UL Listing E56854
- CE EN50146
- Det Norske Veritas Cert. # E-6540, E-6539
- SAE AS 23190 (formerly MS23109E)

Order Description	Length	Width	Thick [#]	Max. Bundle Dia.	Min. Bundle Dia.	Min. Tensile Strength	Recommended Installation Tool
MLTC - Heavy Cross Section Selectively Coated Ties - AISI 316 Stainless Steel							
MLTC2H-LP316	201	7.9	0.25	51	12.7	1112	GS4MT, HTMT, PPTMT, ST2MT, PBMT
MLTC4H-LP316	362	7.9	0.25	102	12.7		
MLTC6H-LP316	521	7.9	0.25	152	12.7		
MLTC8H-LP316	679	7.9	0.25	203	12.7		
MLTC10H-LP316	838	7.9	0.25	254	12.7		
MLTFC* - Heavy Cross Section Coated Ties - AISI 316 Stainless Steel							
MLTFC2H-LP316RD	201	7.9	0.25	51	12.7	1112	GS4MT, HTMT, PPTMT, ST2MT, PBMT
MLTFC4H-LP316RD	362	7.9	0.25	102	12.7		
MLTFC6H-LP316RD	521	7.9	0.25	152	12.7		
MLTFC2H-LP316YL	201	7.9	0.25	51	12.7		
MLTFC4H-LP316YL	362	7.9	0.25	102	12.7		
MLTFC6H-LP316YL	521	7.9	0.25	152	12.7		
MLTFC2H-LP316GR	201	7.9	0.25	51	12.7		
MLTFC4H-LP316GR	362	7.9	0.25	102	12.7		
MLTFC6H-LP316GR	521	7.9	0.25	152	12.7		
MLTFC2H-LP316BU	201	7.9	0.25	51	12.7		
MLTFC4H-LP316BU	362	7.9	0.25	102	12.7		
MLTFC6H-LP316BU	521	7.9	0.25	152	12.7		

*MLTFC: Above table only shows colours Red (RD), Yellow (YL), Green (GN), and Blue (BU). Also available are Black(-) and White (WH).

[#] Base material less coating

Dimension in millimeters unless otherwise stated.

MLTD Series

Pan-Steel® Double Wrapped Steel Cable Tie Features and Benefits



For the maximum tensile strength, Pan-Steel double wrapped Pan-Steel® cable ties offer the premium solution with load strength up to 5340N.

For details of MOD approved stainless steel cable ties and corresponding NATO Stock Number ref 5975-01 please contact us for more details.

Features & Benefits

- Self-locking head design speeds installation and locks into place at any length along the tie body.
- Available in AISI 304 stainless steel for general purpose applications.
- Available in AISI 316 stainless steel for the most corrosive environments. Just add suffix '316' to the part number (EH and SH products only).
- Super heavy double wrapped tested for short circuit applications up to 71.5 kA.

Approvals

- SAE AS 23190 (formerly MS23109E)

Order Description	Length	Width	Thick [#]	Max. Bundle Dia.	Min. Bundle Dia.	Min. Tensile Strength	Recommended Installation Tool
MLTD - Heavy Cross Section Selectively Coated Ties - AISI 304 Stainless Steel							
MLT2DH-L	470	7.9	0.25	51	25.4	2670	GS4MT, HTMT, PPTMT, ST2MT
MLT4DH-L	711	7.9	0.25	102	25.4		
MLT5DH-L	863	7.9	0.25	127	25.4		
MLT6DH-Q	1016	7.9	0.25	152	25.4		
MLTD - Extra-Heavy Cross Section Coated Ties - AISI 304 Stainless Steel							
MLT4DEH-Q	749	12.7	0.25	102	25.4	3560	ST2MT, RT2HT, RT2HTN, PBTMT
MLT6DEH-Q	1054	12.7	0.25	152	25.4		
MLT8DEH-Q	1359	12.7	0.25	203	25.4		
MLT4DEH15-Q	749	12.7	0.38	102	25.4	4450	
MLT6DEH15-Q	1054	12.7	0.38	152	25.4		
MLT8DEH15-Q	1359	12.7	0.38	203	25.4		
MLTD - Super-Heavy Cross Section Coated Ties - AISI 304 Stainless Steel							
MLT4DSH-Q	749	15.9	0.38	102	25.4	5340	RT2HT, RT2HTN, PBTMT
MLT6DSH-Q	1054	15.9	0.38	152	25.4		
MLT8DSH-Q	1359	15.9	0.38	203	25.4		

Dimension in millimeters unless otherwise stated.

Tooling for Metal Ties

Tool Controlled Tension Cut Off

Product Guide

A broad range of hand tool solutions are available for stainless steel ties, ranging including hand operated and battery or pneumatic assisted. They are all designed to maximise efficiency and ensure consistency of installation.

In addition a range of accessories are also available that include 'Tool Tension locking Kits', replacement cutter blades and parts.

Below is a selection of what we can supply, for more information on these and other products in the range please contact us.



Part Number	Used with Cable Ties	Features
GS4MT	Standard Light-Heavy Heavy	Single handed operation for fast installation. Qualified per MIL Standard MS90387-3. Automatically tensions & cuts off tie when pre-determined tension is reached.
ST2MT	Standard Light-Heavy Heavy Extra-Heavy	Rugged, lightweight, easy-to-operate pliers-type tool provides mechanical advantage. Cable tie side entry for immediate positioning of tie and tool.
RT2HT	Extra-Heavy Extra Heavy 15 Super Heavy	Cable tie side entry for immediate positioning of tie and tool to speed installation. Multi-position rear handle provides flexibility for a one or two hand installation.
RT2HTN	Extra-Heavy Extra Heavy 15 Super Heavy	As RT2HT but with narrow nose design for applications requiring installations in tight confined spaces.
PPTMT	Standard Light-Heavy Heavy	Pneumatic hand tool. Automatically tensions and cuts off tie when pre-determined tension is reached, for more reliable and consistent installations.
PBTMT	Heavy Extra Heavy Super Heavy	Battery powered installation tool. Ergonomic tool design provides a compact lightweight body, reducing operator fatigue.

MIL-Spec Cross reference for MLT Series Steel Cable Ties

The products listed in the following table meet the various testing requirements of Aerospace Standard SAE-AS23190A (formerly MIL-S-23190E) and the

temperature and shock requirements of MIL-STD-202 for details please contact us.

Mil. Std. Number	MTL Series Pan-Steel®
AS23190/3-1	MLT2S-CP
AS23190/3-1	MLT2S-CP316
AS23190/3-2	MLT4S-CP
AS23190/3-2	MLT4S-CP316
AS23190/3-3	MLT6S-CP
AS23190/3-3	MLT6S-CP316
AS23190/3-4	MLT8S-CP
AS23190/3-4	MLT8S-CP316
AS23190/3-5	MLT2H-LP
AS23190/3-5	MLT2H-LP316
AS23190/3-6	MLT4H-LP
AS23190/3-6	MLT4H-LP316
AS23190/3-7	MLT6H-LP
AS23190/3-7	MLT6H-LP316
AS23190/3-8	MLT8H-LP
AS23190/3-8	MLT8H-LP316
AS23190/3-9	MLT10H-LP
AS23190/3-9	MLT10H-LP316