Properties of 304/316 steel (similar to V2A/V4A steel)

Stainless Steel Cable Ties can be used at temperatures up to 538° C.

Stainless steel cable ties				
Material	**Chem. Material Properties***	**Operating Temperature**	**Flammability**	
Stainless Steel Type SS304 (SS304)	• Corrosion resistant • Weather resistant • Outstanding chemical resistance • Antimagnetic	-80 °C to +538 °C	Non burning	
Stainless Steel Type SS316 (SS316)	• Salt spray resistant • Corrosion resistant • Weather resistant • Outstanding chemical resistance • Antimagnetic	-80 °C to +538 °C	Non burning	
Material	**Chem. Material Properties***	**Operating Temperature Tie**	**Flammability Coating**	**Operating Temperature Coating**
Stainless Steel Type SS316 (SS316), Polyester (SP)	• Salt spray resistant • Corrosion resistant • Weather resistant • Outstanding chemical resistance • Antimagnetic	-80 °C to +538 °C	Halogen free	-50 °C to +150 °C
Stainless Steel Type SS316 (SS316), Polyamide 11 (PA11)	• Salt spray resistant • Corrosion resistant • Weather resistant • Outstanding chemical resistance • Antimagnetic	-80 °C to +538 °C	Halogen free V0	-40 °C to +85 °C

*These details are only rough guide values. They should be regarded as a material specification and are no substitute for a suitablity test. Please see our datasheets for further details.

AMTS
Automated Metal Tying System

Features and Benefits

The Automated Metal Tying System is a quick and simple way to apply strong, high performance metal banding. The System comprises a purpose designed applicator tool together with an electric torque driver and AMTS ties. The ties are in pre-cut lengths with a safe, shaped end at the tip of the tie tail which means no sharp edges. The fastening buckle is already securely fitted and so the band is ready to fit from the pack with no assembly required. Optional protective channel is available for additional protection of cables or pipes where necessary.

Application

The applicator tool used in conjunction with the strap is ideal where "saving time" is a key factor. The high load this tie can withstand, makes it suitable for any heavy-duty job in the Rail, Ministry of Defence, Ship and Offshore industries. Made from Stainless Steel, the cable tie will cope with fire and arduous conditions.

Easy to use the AMTS noticeably speeds up bundling processes of heavy metal ties.

Shipyard.

The AMTS-Kit consists of the application tool and the driver.

Material Data

Power Supply	**Electric Driver**
Cycle Time	**30 sec.**
Weight (Kg)	**1.4**
Application	**Mobile**

Technical Table

Article-No.	Type
104-00044	**AMTS2005 Kit consists of:** **• Application Tool** **• Battery powered driver** **• Two batteries** **• Battery charger** **• Application CD** **Optional: A holster complete with belt to allow for hands free when initially applying the Application Tool**

All dimensions in mm. Subject to technical changes.

AMTS Metal banding

Features and Benefits

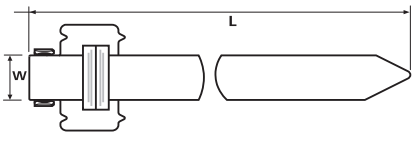
- Five lengths of band are available 500, 600, 800, 1000 and 1500 mm
- Single width – 16 mm
- Light Duty (0.4mm thickness) and Heavy Duty (0.75 mm thickness) available
- Double Band versions available for extra heavy-duty applications
- LFPC163 protective channel available in 1 meter and 25 meter lengths to cut to size

Application

The AMT tie is designed for heavy duty application.The folding mechanism, which ensures tight locking, will not become loose under vibration conditions. Therefore in all safety relevant areas where vibration is normal, like in the Rail, Ship or Construction Industry this product is very suitable.

AMT Ties with and without protective LFPC channel.

The high strength banding system – AMT Ties.



AMT Tie

Material Data

Material	**Stainless Steel Type SS316 (SS316)**
Operating Temperature	**-80 °C to +538 °C**
Flammability	**Non burning**

Technical Table

Article-No.	Type	Length (L)	Width (W)	Thickness (T)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Application Tool
111-00327	**AMT5L16SB**	500	16.0	0.4	110	2500	SS316	AMTS
111-00328	**AMT6L16SB**	600	16.0	0.4	140	2500	SS316	AMTS
111-00329	**AMT8L16SB**	800	16.0	0.4	205	2500	SS316	AMTS
111-00330	**AMT10L16SB**	1000	16.0	0.4	270	2500	SS316	AMTS
111-00331	**AMT15L16SB**	1500	16.0	0.4	430	2500	SS316	AMTS
111-00338	**AMT5H16SB**	500	16.0	0.75	110	2500	SS316	AMTS
111-00339	**AMT6H16SB**	600	16.0	0.75	140	2500	SS316	AMTS
111-00340	**AMT8H16SB**	800	16.0	0.75	205	2500	SS316	AMTS
111-00341	**AMT10H16SB**	1000	16.0	0.75	270	2500	SS316	AMTS
111-00342	**AMT15H16SB**	1500	16.0	0.75	430	2500	SS316	AMTS

All dimensions in mm. Subject to technical changes.

Only reference! Additional products are available, see describing text above.

MBT Range of Stainless Steel Cable Ties

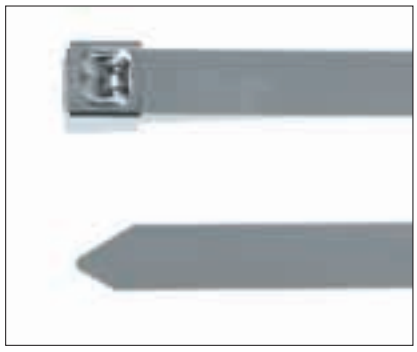
Features and Benefits

The MBT (Metal Ball bearing Ties) have a non-releasable locking mechanism that offers infinate adjustment along the length of the tie. These ties are available in both 316 and 304 grades of stainless steel.

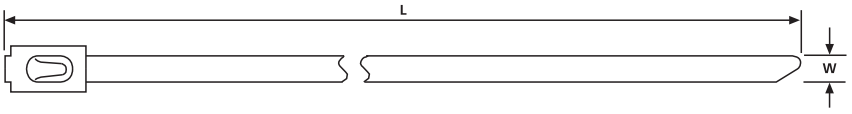
Application

The MBT range of stainless steel ties are suitable for use in the most arduous conditions or where additional security, strength, fire resistance and chemical resistance properties. Used in all industries – from mass transit, ship building, oil rigs, mining, chemical industries and many more.

MBTS, MBTH



MBTXH



MBTS, MBTH

Technical Table

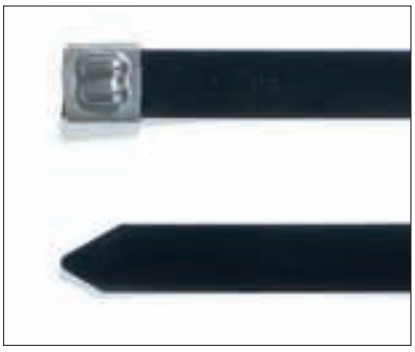
Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Application Tool
Material Type SS304							
111-93058	**MBT5SS**	127	4.6	25.0	670	SS304	MK9SST
111-93088	**MBT8SS**	201	4.6	50.0	670	SS304	MK9SST
111-93148	**MBT14SS**	362	4.6	102	670	SS304	MK9SST
111-93208	**MBT20SS**	521	4.6	152	670	SS304	MK9SST
111-93278	**MBT27SS**	681	4.6	203	670	SS304	MK9SST
111-93338	**MBT33SS**	838	4.6	254	670	SS304	MK9SST
111-94088	**MBT8HS**	201	7.9	50.0	1115	SS304	MK9SST
111-94148	**MBT14HS**	362	7.9	102	1115	SS304	MK9SST
111-94208	**MBT20HS**	521	7.9	152	1115	SS304	MK9SST
111-94278	**MBT27HS**	681	7.9	203	1115	SS304	MK9SST
111-94338	**MBT33HS**	838	7.9	254	1115	SS304	MK9SST
111-95148	**MBT14XHS**	362	12.3	107	2225	SS304	MK9SST
111-95208	**MBT20XHS**	521	12.3	152	2225	SS304	MK9SST
111-95278	**MBT27XHS**	681	12.3	203	2225	SS304	MK9SST
111-95338	**MBT33XHS**	838	12.3	254	2225	SS304	MK9SST
Material Type SS316							
111-93059	**MBT5S**	127	4.6	25.0	670	SS316	MK9SST
111-93089	**MBT8S**	201	4.6	50.0	670	SS316	MK9SST
111-93149	**MBT14S**	362	4.6	102	670	SS316	MK9SST
111-93209	**MBT20S**	521	4.6	152	670	SS316	MK9SST
111-93279	**MBT27S**	681	4.6	203	670	SS316	MK9SST
111-93339	**MBT33S**	838	4.6	254	670	SS316	MK9SST
111-94089	**MBT8H**	201	7.9	50.0	1115	SS316	MK9SST
111-94149	**MBT14H**	362	7.9	102	1115	SS316	MK9SST
111-94209	**MBT20H**	521	7.9	152	1115	SS316	MK9SST
111-94279	**MBT27H**	681	7.9	203	1115	SS316	MK9SST
111-94339	**MBT33H**	838	7.9	254	1115	SS316	MK9SST
111-95149	**MBT14XH**	362	12.3	102	2225	SS316	MK9SST
111-95209	**MBT20XH**	521	12.3	152	2225	SS316	MK9SST
111-95279	**MBT27XH**	681	12.3	203	2225	SS316	MK9SST
111-95339	**MBT33XH**	838	12.3	254	2225	SS316	MK9SST

All dimensions in mm. Subject to technical changes.

Please Note for Product Specific Approvals please refer to the Appendix

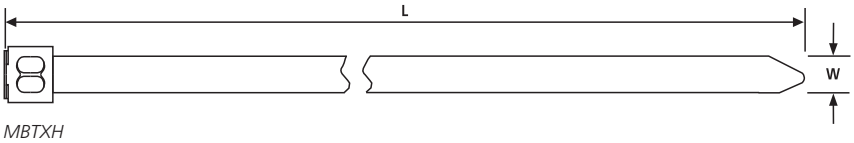
MBT Range of Stainless Steel Cable Ties

MBTS, MBTH



MBTXH

Material specification see page 83.



MBTXH

Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Application Tool
MBT semi coated							
111-93057	**MBT5SC**	127	4.6	25.0	467	SS316, PA11	MK9SST
111-93087	**MBT8SC**	201	4.6	50.0	467	SS316, PA11	MK9SST
111-93147	**MBT14SC**	362	4.6	102	467	SS316, PA11	MK9SST
111-93207	**MBT20SC**	521	4.6	152	467	SS316, PA11	MK9SST
111-93277	**MBT27SC**	681	4.6	203	467	SS316, PA11	MK9SST
111-93337	**MBT33SC**	838	4.6	254	467	SS316, PA11	MK9SST
111-94087	**MBT8HC**	201	7.9	50.0	779	SS316, PA11	MK9SST
111-94147	**MBT14HC**	362	7.9	102	779	SS316, PA11	MK9SST
111-94207	**MBT20HC**	521	7.9	152	779	SS316, PA11	MK9SST
111-94277	**MBT27HC**	681	7.9	203	779	SS316, PA11	MK9SST
111-94337	**MBT33HC**	838	7.9	254	779	SS316, PA11	MK9SST
111-95147	**MBT14XHC**	362	12.3	107	1558	SS316, PA11	MK9SST
111-95207	**MBT20XHC**	521	12.3	150	1558	SS316, PA11	MK9SST
111-95277	**MBT27XHC**	681	12.3	203	1558	SS316, PA11	MK9SST
111-95336	**MBT33XHC**	838	12.3	254	1558	SS316, PA11	MK9SST
MBT Fully Coated							
111-00288	**MBT5SFC**	127	4.6	25.0	467	SS316, SP	MK9SST
111-00289	**MBT8SFC**	201	4.6	50.0	467	SS316, SP	MK9SST
111-00290	**MBT14SFC**	362	4.6	102	467	SS316, SP	MK9SST
111-00291	**MBT20SFC**	521	4.6	152	467	SS316, SP	MK9SST
111-00292	**MBT27SFC**	681	4.6	203	467	SS316, SP	MK9SST
111-00293	**MBT33SFC**	838	4.6	254	467	SS316, SP	MK9SST
111-00294	**MBT8HFC**	201	7.9	50.0	779	SS316, SP	MK9SST
111-00295	**MBT14HFC**	362	7.9	102	779	SS316, SP	MK9SST
111-00296	**MBT20HFC**	521	7.9	152	779	SS316, SP	MK9SST
111-00297	**MBT27HFC**	681	7.9	203	779	SS316, SP	MK9SST
111-00298	**MBT33HFC**	838	7.9	254	779	SS316, SP	MK9SST
111-00299	**MBT14XHFC**	362	12.3	107	1558	SS316, SP	MK9SST
111-00300	**MBT20XHFC**	521	12.3	150	1558	SS316, SP	MK9SST
111-00301	**MBT27XHFC**	681	12.3	203	1558	SS316, SP	MK9SST
111-00302	**MBT33XHFC**	838	12.3	254	1558	SS316, SP	MK9SST

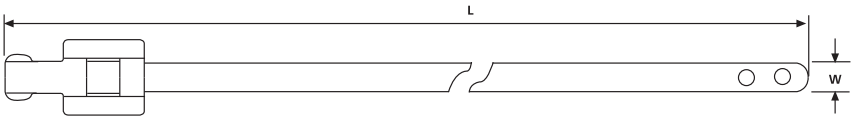
All dimensions in mm. Subject to technical changes.

MLT Range of Stainless Steel Cable Ties

Features and Benefits

The MLT ties are a heavy duty type 316 stainless steel, once installed they can be opened and re-used if required.

These Metal ties are availiable with and without coating.



MLT

Material specification please see page 83.

Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Material	Application Tool
MLT Uncoated						
111-94080	**MLT8SS5**	230	5.0	60.0	SS316	MTT4
111-94120	**MLT12SS5**	330	5.0	90.0	SS316	MTT4
111-94161	**MLT16SS5**	430	5.0	120	SS316	MTT4
111-91400	**MLT24SS5**	630	5.0	180	SS316	MTT4
111-95080	**MLT8SS10**	230	10.0	60.0	SS316	MTT4
111-95120	**MLT12SS10**	330	10.0	90.0	SS316	MTT4
111-91300	**MLT16SS10**	430	10.0	120	SS316	MTT4
111-95241	**MLT24SS10**	630	10.0	180	SS316	MTT4
MLT Fully Coated						
111-91000	**MLT8SSC5**	230	5.26	60.0	SS316, SP	MTT4
111-91121	**MLT12SSC5**	330	5.26	90.0	SS316, SP	MTT4
111-91161	**MLT16SSC5**	430	5.26	120	SS316, SP	MTT4
111-91180	**MLT24SSC5**	630	5.26	180	SS316, SP	MTT4
111-91001	**MLT8SSC10**	230	10.26	60.0	SS316, SP	MTT4
111-91123	**MLT12SSC10**	330	10.26	90.0	SS316, SP	MTT4
111-91163	**MLT16SSC10**	430	10.26	120	SS316, SP	MTT4
111-91181	**MLT24SSC10**	630	10.26	180	SS316, SP	MTT4

All dimensions in mm. Subject to technical changes.

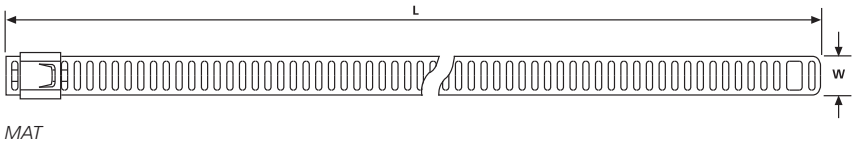
Please Note for Product Specific Approvals please refer to the Appendix

MAT Range of Stainless Steel Cable Ties

Features and Benefits

The MAT ties are similar in design to conventional 'plastic' cable ties and work on a ratchet system. Available in type 316 stainless steel.

Stainless Steel Cable Ties can be used at temperatures up to 538° C.



MAT

Material specification please see page 83.

Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Application Tool
MAT Uncoated							
111-92080	**MAT8SS7**	230	7.0	60.0	445	SS316	MTT6
111-92120	**MAT12SS7**	330	7.0	90.0	445	SS316	MTT6
111-92160	**MAT16SS7**	430	7.0	120	445	SS316	MTT6
111-92240	**MAT24SS7**	630	7.0	180	445	SS316	MTT6
111-93080	**MAT8SS12**	230	12.0	60.0	445	SS316	MTT6
111-93120	**MAT12SS12**	330	12.0	90.0	445	SS316	MTT6
111-93160	**MAT16SS12**	430	12.0	120	445	SS316	MTT6
111-93240	**MAT24SS12**	630	12.0	180	445	SS316	MTT6
MAT Fully Coated							
111-92004	**MAT8SSC7**	230	7.0	60.0	445	SS316, SP	MTT6
111-96120	**MAT12SSC7**	330	7.0	90.0	445	SS316, SP	MTT6
111-92162	**MAT16SSC7**	430	7.0	120	445	SS316, SP	MTT6
111-92200	**MAT24SSC7**	630	7.0	180	445	SS316, SP	MTT6
111-92002	**MAT8SSC12**	230	12.0	60.0	445	SS316, SP	MTT6
111-92122	**MAT12SSC12**	330	12.0	90.0	445	SS316, SP	MTT6
111-92163	**MAT16SSC12**	430	12.0	120	445	SS316, SP	MTT6
111-92201	**MAT24SSC12**	630	12.0	180	445	SS316, SP	MTT6

All dimensions in mm. Subject to technical changes.

Please Note for Product Specific Approvals please refer to the Appendix

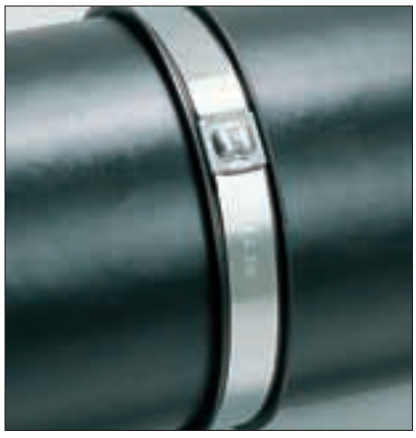
LFPC Protective Channel

Features and Benefits

Manufactured from Polyolefin the LFPC channel is a Halogen free material which is flame retardant. Covering the underside and edges of the MBT ties to give full protection to the cable bundle.

Application

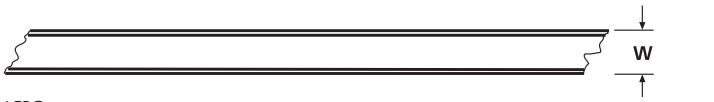
When used in conjunction with the MBT range of stainless steel cable ties this channel gives the cable protection against chafing, vibration and shock. Ideal for use in arduous conditions such as those found on board ships, oil rigs or in nuclear power stations.



Cable tie MBTXH with LFPC Protective Channel.

Material Data

Material	**Polyolefin**
Colour	**Black (BK)**
Operating Temperature	**-40 °C to +90 °C**
Flammability	**Limited Fire Hazard, Low generation of toxic gases and corrosive acid, Low smoke generation**
Specification	**London Underground RSE STD 013, DEF STAN 61-12 (Part 31)**



LFPC

Technical Table

Article-No.	Type	For Ties	Width (W)
111-93000	**LFPC70**	MBTS	7.0
111-94000	**LFPC103**	MBTH	10.3
111-95000	**LFPC150**	MBTXH	15.0
111-00257	**LFPC83**	MBTH	8.3
111-00253	**LFPC129**	MBTXH	12.9
111-00254	**LFPC132**	MBTXH	13.2
111-00255	**LFPC163**	AMT-Ties	16.3

All dimensions in mm. Subject to technical changes.

The fire protection properties of the material relate to the test performed on defined test samples. This is a test under laboratory conditions and not directly transferable to the product made from this material.

DEF STAN

Please Note for Product Specific Approvals please refer to the Appendix