



**Cable Ties with Ball-Lock**

• **MBT-Series**

**Features and Benefits**

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

**Application**

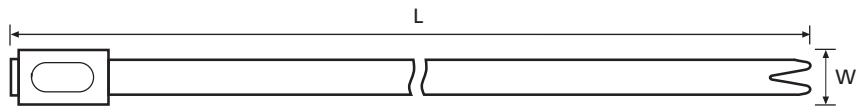
The MBT range of stainless steel ties are suitable for use in the most arduous conditions or where additional security, strength, fire resistance and chemical resistance properties. Used in all industries - from mass transit, ship building, oil rigs, mining, chemical industries and many more.



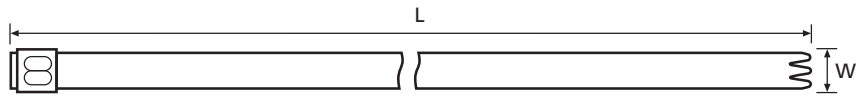
MBT\_SS, MBT\_HS.



MBT\_XHS.





MBT\_SS, MBT\_HS



MBT\_XHS

Material Data	
Material	<b>Stainless Steel Type SS304 (SS304)</b>
Operating Temperature	<b>-80 °C to +538 °C</b>
Flammability	<b>Non burning</b>

Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Application Tool
Material Type SS304							
111-93058	<b>MBT5SS</b>	127	4.6	25	900	SS304	MK9SST, KST-STG200
111-93088	<b>MBT8SS</b>	201	4.6	50	900	SS304	MK9SST, KST-STG200
111-93148	<b>MBT14SS</b>	362	4.6	102	900	SS304	MK9SST, KST-STG200
111-93208	<b>MBT20SS</b>	521	4.6	152	900	SS304	MK9SST, KST-STG200
111-93278	<b>MBT27SS</b>	681	4.6	203	900	SS304	MK9SST, KST-STG200
111-93338	<b>MBT33SS</b>	838	4.6	254	900	SS304	MK9SST, KST-STG200
111-94088	<b>MBT8HS</b>	201	7.9	50	2000	SS304	MK9SST, KST-STG200
111-94148	<b>MBT14HS</b>	362	7.9	102	2000	SS304	MK9SST, KST-STG200
111-94208	<b>MBT20HS</b>	521	7.9	152	2000	SS304	MK9SST, KST-STG200
111-94278	<b>MBT27HS</b>	681	7.9	203	2000	SS304	MK9SST, KST-STG200
111-94338	<b>MBT33HS</b>	838	7.9	254	2000	SS304	MK9SST, KST-STG200
111-95148	<b>MBT14XHS</b>	362	12.3	102	2700	SS304	MK9SST, KST-STG200
111-95208	<b>MBT20XHS</b>	521	12.3	152	2700	SS304	MK9SST, KST-STG200
111-95278	<b>MBT27XHS</b>	681	12.3	203	2700	SS304	MK9SST, KST-STG200
111-95338	<b>MBT33XHS</b>	838	12.3	254	2700	SS304	MK9SST, KST-STG200

All dimensions in mm. Subject to technical changes.



Please note! Not all products listed on this page may have this approval.

For product specific approvals please refer to the Appendix.



## Cable Ties with Ball-Lock

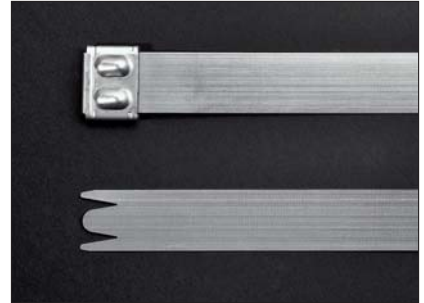
### • MBT-Series



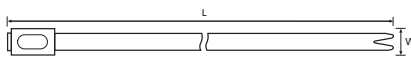
MBT\_S, MBT\_H.



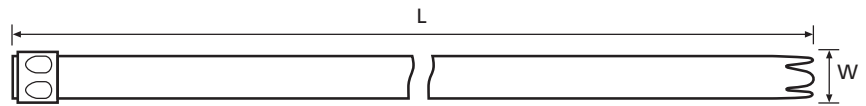
MBT\_XH.



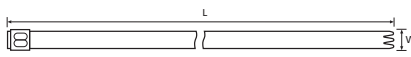
MBTUH.



MBT\_S, MBT\_H



MBT\_UH



MBT\_XH

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)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Application Tool
Material Type SS316							
111-93059	<b>MBT5S</b>	127	4.6	25	900	SS316	MK9SST, KST-STG200
111-93089	<b>MBT8S</b>	201	4.6	50	900	SS316	MK9SST, KST-STG200
111-93149	<b>MBT14S</b>	362	4.6	102	900	SS316	MK9SST, KST-STG200
111-93209	<b>MBT20S</b>	521	4.6	152	900	SS316	MK9SST, KST-STG200
111-93279	<b>MBT27S</b>	681	4.6	203	900	SS316	MK9SST, KST-STG200
111-93339	<b>MBT33S</b>	838	4.6	254	900	SS316	MK9SST, KST-STG200
111-94089	<b>MBT8H</b>	201	7.9	50	2000	SS316	MK9SST, KST-STG200
111-94149	<b>MBT14H</b>	362	7.9	102	2000	SS316	MK9SST, KST-STG200
111-94209	<b>MBT20H</b>	521	7.9	152	2000	SS316	MK9SST, KST-STG200
111-94279	<b>MBT27H</b>	681	7.9	203	2000	SS316	MK9SST, KST-STG200
111-94339	<b>MBT33H</b>	838	7.9	254	2000	SS316	MK9SST, KST-STG200
111-95149	<b>MBT14XH</b>	362	12.3	102	2700	SS316	MK9SST, KST-STG200
111-95209	<b>MBT20XH</b>	521	12.3	152	2700	SS316	MK9SST, KST-STG200
111-95279	<b>MBT27XH</b>	681	12.3	203	2700	SS316	MK9SST, KST-STG200
111-95339	<b>MBT33XH</b>	838	12.3	254	2700	SS316	MK9SST, KST-STG200
111-01301	<b>MBT14UH</b>	362	16.0	102	4100	SS316	on request
111-01302	<b>MBT20UH</b>	521	16.0	152	4100	SS316	on request
111-01303	<b>MBT27UH</b>	681	16.0	203	4100	SS316	on request
111-01304	<b>MBT33UH</b>	838	16.0	254	4100	SS316	on request
111-01305	<b>MBT43UH</b>	1092	16.0	330	4100	SS316	on request
111-01306	<b>MBT49UH</b>	1245	16.0	380	4100	SS316	on request

All dimensions in mm. Subject to technical changes.



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For product specific approvals please refer to the Appendix.



### Double Band Cable Ties with Ball-Lock

- MBTXHD- / MBTUHD-Series

#### Features and Benefits

The stainless steel MBT-ties with double band operation can be wrapped around the bundle and inserted into the head twice. By this feature the metal tie reaches a very high tensile strength to carry enormous applied loads.

To resist even special demands the metal tie comprises a head with two balls for locking.

#### Application

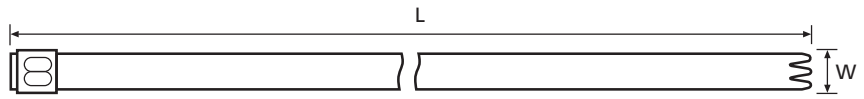
The double band ties of the MBT-series are used in applications where a fixing requires an extraordinary high tensile strength.



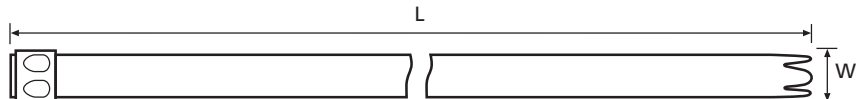
MBT\_XHD Double Band.



MBT\_UHD Double Band.



MBT\_XHD



MBT\_UHD

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)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Application Tool
111-01307	MBT27XHD	681	12.3	100	3600	SS316	MK9SST, KST-STG200
111-01308	MBT33XHD	838	12.3	120	3600	SS316	MK9SST, KST-STG200
111-01309	MBT43XHD	1092	12.3	160	3600	SS316	MK9SST, KST-STG200
111-01310	MBT49XHD	1245	12.3	180	3600	SS316	MK9SST, KST-STG200
111-01311	MBT60XHD	1524	12.3	230	3600	SS316	MK9SST, KST-STG200
111-01312	MBT27UHD	681	16.0	100	5400	SS316	on request
111-01313	MBT33UHD	838	16.0	120	5400	SS316	on request
111-01314	MBT43UHD	1092	16.0	160	5400	SS316	on request
111-01315	MBT49UHD	1245	16.0	180	5400	SS316	on request
111-01316	MBT60UHD	1524	16.0	230	5400	SS316	on request

All dimensions in mm. Subject to technical changes.



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## Cable Ties with Ball-Lock and Coating

### • MBT-FC-Series

#### Features and Benefits

The fully coated cable ties of the MBT-series are made of stainless steel SS316 with a polyester coating.

The coating offers various advantages:

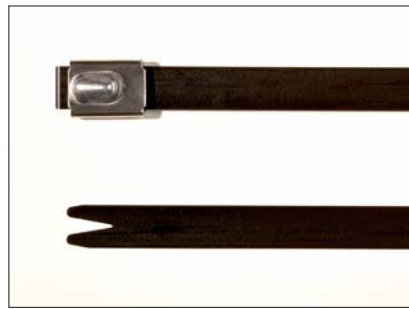
The cable tie has smooth edges. The handling and the installation is more comfortable.

In the application contact corrosion will be avoided.

#### Application

Stainless Steel cable ties with polyester coating provide a comfortable installation, especially when using outside at low temperatures.

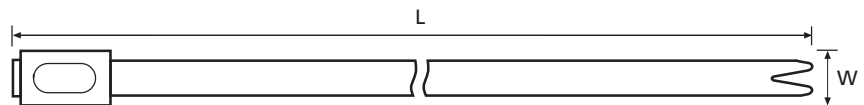
These products are chosen when a high tensile strength is demanded and a sensitive harness requires a carefully bundling.



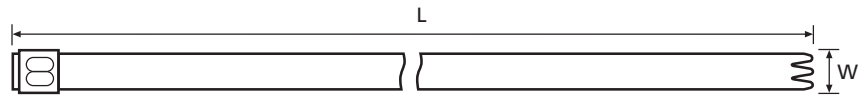
MBT\_SFC, MBT\_HFC.



MBT\_XHFC.



MBT\_SFC, MBT\_HFC



MBT\_XHFC

Material Data	
Material	<b>Stainless Steel Type SS316 (SS316), Polyester (SP)</b>
Operating Temperature Tie	<b>-80 °C to +538 °C</b>
Operating Temperature Coating	<b>-50 °C to +150 °C</b>
Flammability	<b>Non burning</b>



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Application Tool
MBT Fully Coated							
111-00288	<b>MBT5SFC</b>	127	4.6	25	540	SS316, SP	MK9SST, KST-STG200
111-00289	<b>MBT8SFC</b>	201	4.6	50	540	SS316, SP	MK9SST, KST-STG200
111-00290	<b>MBT14SFC</b>	362	4.6	102	540	SS316, SP	MK9SST, KST-STG200
111-00291	<b>MBT20SFC</b>	521	4.6	152	540	SS316, SP	MK9SST, KST-STG200
111-00292	<b>MBT27SFC</b>	681	4.6	203	540	SS316, SP	MK9SST, KST-STG200
111-00293	<b>MBT33SFC</b>	838	4.6	254	540	SS316, SP	MK9SST, KST-STG200
111-00294	<b>MBT8HFC</b>	201	7.9	50	1020	SS316, SP	MK9SST, KST-STG200
111-00295	<b>MBT14HFC</b>	362	7.9	102	1020	SS316, SP	MK9SST, KST-STG200
111-00296	<b>MBT20HFC</b>	521	7.9	152	1020	SS316, SP	MK9SST, KST-STG200
111-00297	<b>MBT27HFC</b>	681	7.9	203	1020	SS316, SP	MK9SST, KST-STG200
111-00298	<b>MBT33HFC</b>	838	7.9	254	1020	SS316, SP	MK9SST, KST-STG200
111-00299	<b>MBT14XHFC</b>	362	12.3	102	1620	SS316, SP	MK9SST, KST-STG200
111-00300	<b>MBT20XHFC</b>	521	12.3	152	1620	SS316, SP	MK9SST, KST-STG200
111-00301	<b>MBT27XHFC</b>	681	12.3	203	1620	SS316, SP	MK9SST, KST-STG200
111-00302	<b>MBT33XHFC</b>	838	12.3	254	1620	SS316, SP	MK9SST, KST-STG200

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