



T Series

Features and Benefits

Available in a wide range of materials, these cable ties all feature internal serrations allowing for a positive hold onto cable, hose and pipe bundles. The design of the head guarantees a high tensile strength whilst allowing a very low insertion force, this, combined with the bent tail design of many of the ties, ensures a simple and quick installation. Whilst easily installed by hand, manual and pneumatic (for high volume applications) tensioning tools are available to ensure a consistent and safe installation.

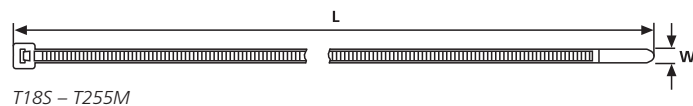
Application

For the routing, bundling and securing of cables, pipes and hoses.



T Series for bundling and securing of cables for a wide range of applications, available in various colours and materials.

Application Tool	Registration Numbers
MK3SP	1
MK3PNSP2, MK7P	2
MK7	3
MK7HT	4
MK20	5
MK6	6
MK9P, MK6PN	7
MK9	8
MK9HT	9
MK21	10
Autotool 2000	11
For more information please turn to page 404.	



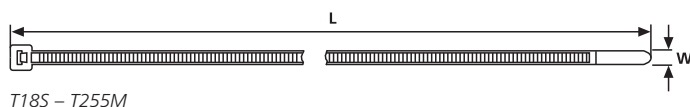
T18S - T255M



Please Note for Product Specific Approvals please refer to the Appendix



T Series, Polyamide 6.6 (PA66) – Standard



T18S – T255M

Material Data

Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Colour	Application Tool
Polyamide 6.6 (PA66)								
111-02809	T18S	83	2.3	16.0	80	PA66	Natural (NA)	1–3, 5
111-02811	T18S	83	2.3	16.0	80	PA66	Black (BK)	1–3, 5
111-01910	T18R	100	2.5	22.0	80	PA66	Black (BK)	1–3, 5
111-01919	T18R	100	2.5	22.0	80	PA66	Natural (NA)	1–3, 5
111-02319	T18I	140	2.5	35.0	80	PA66	Natural (NA)	1–3, 5
111-02370	T18I	140	2.5	35.0	80	PA66	Black (BK)	1–3, 5
111-02010	T18L	205	2.5	55.0	80	PA66	Black (BK)	1–3, 5
111-02019	T18L	205	2.5	55.0	80	PA66	Natural (NA)	1–3, 5
111-02519	T25L	240	2.8	65.0	110	PA66	Natural (NA)	1–3, 5
111-02500	T25L	240	2.8	65.0	110	PA66	Black (BK)	1–3, 5
111-02619	T25LL	330	2.8	95.0	110	PA66	Natural (NA)	1–3, 5
111-02601	T25LL	330	2.8	95.0	110	PA66	Black (BK)	1–3, 5
111-03009	T30R	150	3.5	35.0	135	PA66	Natural (NA)	1–3, 5
111-03011	T30R	150	3.5	35.0	135	PA66	Black (BK)	1–3, 5
111-03410	T30L	190	3.5	50.0	135	PA66	Black (BK)	1–3, 5
111-03419	T30L	190	3.5	50.0	135	PA66	Natural (NA)	1–3, 5
111-04400	T30LR	260	3.3	65.0	180	PA66	Natural (NA)	1–5
111-03500	T30LL	290	3.5	80.0	135	PA66	Black (BK)	1–3, 5
111-03529	T30LL	290	3.5	80.0	135	PA66	Natural (NA)	1–3, 5
111-02900	T30XL	365	3.5	105	135	PA66	Natural (NA)	1–3, 5
111-02901	T30XL	365	3.5	105	135	PA66	Black (BK)	1–3, 5
111-03819	T40R	175	4.0	40.0	180	PA66	Natural (NA)	1–5
111-03801	T40R	175	4.0	40.0	180	PA66	Black (BK)	1–5
111-04600	T40I	290	4.0	80.0	180	PA66	Black (BK)	1–5
111-04609	T40I	290	4.0	80.0	180	PA66	Natural (NA)	1–5
111-04300	T40L	365	4.0	105	180	PA66	Natural (NA)	1–5
111-04301	T40L	365	4.0	105	180	PA66	Black (BK)	1–5

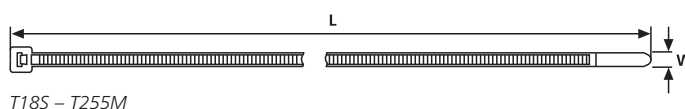
All dimensions in mm. Subject to technical changes.



Please Note for Product Specific Approvals please refer to the Appendix



T Series, Polyamide 6.6 (PA66) – Standard



Material Data

Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Colour	Application Tool
Polyamide 6.6 (PA66)								
111-05819	T50S	150	4.6	35.0	225	PA66	Natural (NA)	1–10
111-05810	T50S	150	4.6	35.0	225	PA66	Black (BK)	1–10
111-05000	T50R	200	4.6	50.0	225	PA66	Black (BK)	1–10
111-05013	T50R	200	4.6	50.0	225	PA66	Natural (NA)	1–10
111-06200	T50M	245	4.6	65.0	225	PA66	Black (BK)	1–10
111-06201	T50M	245	4.6	65.0	225	PA66	Natural (NA)	1–10
111-05210	T50I	300	4.6	85.0	225	PA66	Black (BK)	1–10
111-05219	T50I	300	4.6	85.0	225	PA66	Natural (NA)	1–10
111-05409	T50L	390	4.6	110	225	PA66	Natural (NA)	1–10
111-05400	T50L	390	4.6	110	225	PA66	Black (BK)	1–10
111-00268	T50LL	445	4.6	130	225	PA66	Black (BK)	1–10
111-06002	T50LL	445	4.6	130	225	PA66	Natural (NA)	1–10
111-05019	T80R	210	4.7	55.0	355	PA66	Natural (NA)	1–10
111-08010	T80R	210	4.7	55.0	355	PA66	Black (BK)	1–10
111-08210	T80I	300	4.7	85.0	355	PA66	Black (BK)	1–10
111-08229	T80I	300	4.7	85.0	355	PA66	Natural (NA)	1–10
111-05410	T80L	390	4.7	110	355	PA66	Black (BK)	1–10
111-05419	T80L	390	4.7	110	355	PA66	Natural (NA)	1–10
111-12829	T120S	225	7.6	55.0	535	PA66	Natural (NA)	6–10
111-00179	T120S	225	7.6	55.0	535	PA66	Black (BK)	6–10
111-12210	T120I	300	7.6	80.0	535	PA66	Black (BK)	6–10
111-12219	T120I	300	7.6	80.0	535	PA66	Natural (NA)	6–10
111-12010	T120R(E)	380	7.6	100	535	PA66	Black (BK)	6–10
111-12019	T120R(E)	380	7.6	100	535	PA66	Natural (NA)	6–10
111-12610	T120M	460	7.6	130	535	PA66	Black (BK)	6–10
111-12619	T120M	460	7.6	130	535	PA66	Natural (NA)	6–10
111-12701	T120XM	600	7.6	175	535	PA66	Black (BK)	6–10
111-12704	T120XM	600	7.6	175	535	PA66	Natural (NA)	6–10
111-12429	T120L	760	7.6	225	535	PA66	Natural (NA)	6–10
111-12403	T120L	760	7.6	225	535	PA66	Black (BK)	6–10

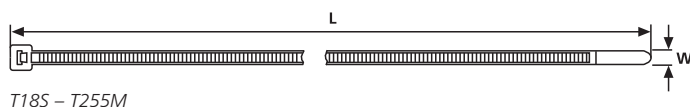
All dimensions in mm. Subject to technical changes.



Please Note for Product Specific Approvals please refer to the Appendix



T Series, Polyamide 6.6 (PA66) – Standard



Material Data

Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Colour	Application Tool
Polyamide 6.6 (PA66)								
111-15200	T150R(U)	390	8.8	105	780	PA66	Black (BK)	6–10
111-15203	T150R(U)	390	8.8	105	780	PA66	Natural (NA)	6–10
111-15619	T150M	530	8.9	150	780	PA66	Natural (NA)	6–9
111-00124	T150M	530	8.9	150	780	PA66	Black (BK)	6–9
111-15419	T150L	820	8.9	245	780	PA66	Natural (NA)	6–9
111-15405	T150L	820	8.9	245	780	PA66	Black (BK)	6–9
111-15719	T150LL	925	8.9	275	780	PA66	Natural (NA)	6–9
111-15700	T150LL	925	8.9	275	780	PA66	Black (BK)	6–9
111-15519	T150XL	1095	8.9	330	780	PA66	Natural (NA)	6–9
111-15500	T150XL	1095	8.9	330	780	PA66	Black (BK)	6–9
111-15300	T150XLL	1325	8.9	405	780	PA66	Black (BK)	6–9
111-15304	T150XLL	1325	8.9	405	780	PA66	Natural (NA)	6–9
111-24704	T250S	225	12.5	55.0	1115	PA66	Black (BK)	7-9
111-24705	T250S	225	12.5	55.0	1115	PA66	Natural (NA)	7-9
111-25102	T250X	370	12.5	100	1115	PA66	Black (BK)	7-9
111-25103	T250X	370	12.5	100	1115	PA66	Natural (NA)	7-9
111-24801	T250R	520	12.5	145	1115	PA66	Black (BK)	7-9
111-24803	T250R	520	12.5	145	1115	PA66	Natural (NA)	7-9
111-25001	T250M	565	12.5	150	1115	PA66	Black (BK)	7-9
111-25002	T250M	565	12.5	150	1115	PA66	Natural (NA)	7-9
111-25219	T250I	725	12.5	203	1115	PA66	Natural (NA)	7-9
111-24600	T250L	880	12.5	254	1115	PA66	Natural (NA)	7-9
111-24601	T250L	880	12.5	254	1115	PA66	Black (BK)	7-9
111-25200	T250XL	1030	12.5	305	1115	PA66	Black (BK)	7-9
111-00466	T250XL	1030	12.5	305	1115	PA66	Natural (NA)	7-9

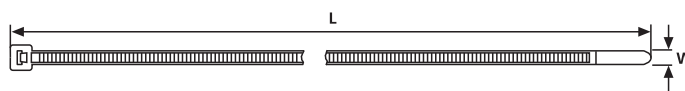
All dimensions in mm. Subject to technical changes.



Please Note for Product Specific Approvals please refer to the Appendix



T Series, Polyamide 6.6 – UV Stabilised



T18S – T255M

Application Tool	Registration Numbers
MK3SP	1
MK3PNSP2, MK7P	2
MK7	3
MK7HT	4
MK20	5
MK6	6
MK9P, MK6PN	7
MK9	8
MK9HT	9
MK21	10
Autotool 2000	11

For more information please turn to page 404.

Material Data	
Material	Polyamide 6.6 UV Resistant (PA66W)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Colour	Application Tool
Polyamide 6.6 UV Stabilised								
111-02860	T18S	83	2.3	16.0	80	PA66W	Black (BK)	1–3, 5
111-01960	T18R	100	2.5	22.0	80	PA66W	Black (BK)	1–3, 5
111-02360	T18I	140	2.5	35.0	80	PA66W	Black (BK)	1–3, 5
111-02012	T18L	205	2.5	55.0	80	PA66W	Black (BK)	1–3, 5
111-02560	T25L	240	2.8	65.0	110	PA66W	Black (BK)	1–3, 5
111-02660	T25LL	330	2.8	95.0	110	PA66W	Black (BK)	1–3, 5
111-03030	T30R	150	3.5	35.0	135	PA66W	Black (BK)	1–3, 5
111-03460	T30L	190	3.5	50.0	135	PA66W	Black (BK)	1–3, 5
111-04402	T30LR	260	3.3	65.0	135	PA66W	Black (BK)	1–5
111-03570	T30LL	290	3.5	80.0	135	PA66W	Black (BK)	1–3, 5
111-03860	T40R	175	4.0	40.0	180	PA66W	Black (BK)	1–5
111-05860	T50S	150	4.6	35.0	225	PA66W	Black (BK)	1–10
111-04889	T50R	200	4.6	50.0	225	PA66W	Black (BK)	1–10
111-06206	T50M	245	4.6	65.0	225	PA66W	Black (BK)	1–10
111-05260	T50I	300	4.6	85.0	225	PA66W	Black (BK)	1–10
111-05440	T50L	390	4.6	110	225	PA66W	Black (BK)	1–10
111-06000	T50LL	445	4.6	130	225	PA66W	Black (BK)	1–10

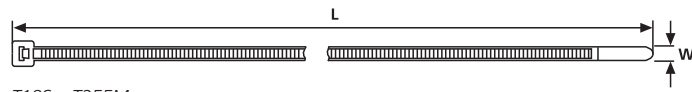
All dimensions in mm. Subject to technical changes.



Please Note for Product Specific Approvals please refer to the Appendix



T Series, Polyamide 6.6 – UV Stabilised



T18S – T255M

Application Tool	Registration Numbers
MK3SP	1
MK3PNSP2, MK7P	2
MK7	3
MK7HT	4
MK20	5
MK6	6
MK9P, MK6PN	7
MK9	8
MK9HT	9
MK21	10
Autotool 2000	11

For more information please turn to page 404.

Material Data	
Material	Polyamide 6.6 UV Resistant (PA66W)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Colour	Application Tool
Polyamide 6.6 UV Stabilised								
111-05060	T80R	210	4.7	55.0	355	PA66W	Black (BK)	1–10
111-08290	T80I	300	4.7	85.0	355	PA66W	Black (BK)	1–10
111-05460	T80L	390	4.7	110	355	PA66W	Black (BK)	1–10
111-12830	T120S	225	7.6	55.0	535	PA66W	Black (BK)	6–10
111-12230	T120I	300	7.6	80.0	535	PA66W	Black (BK)	6–10
111-12060	T120R(E)	380	7.6	100	535	PA66W	Black (BK)	6–10
111-12660	T120M	460	7.6	130	535	PA66W	Black (BK)	6–10
111-00171	T120XM	600	7.6	175	535	PA66W	Black (BK)	6–10
111-12430	T120L	760	7.6	225	535	PA66W	Black (BK)	6–10
111-15206	T150R(U)	390	8.9	105	780	PA66W	Black (BK)	6–10
111-15660	T150M	530	8.9	150	780	PA66W	Black (BK)	6–9
111-15460	T150L	820	8.8	245	780	PA66W	Black (BK)	6–9
111-15704	T150LL	925	8.9	275	780	PA66W	Black (BK)	6–9
111-15502	T150XL	1095	8.9	330	780	PA66W	Black (BK)	6–9
111-15305	T150XLL	1325	8.9	405	780	PA66W	Black (BK)	6–9
111-25100	T250X	370	12.5	100	1115	PA66W	Black (BK)	7–9
111-24805	T250R	520	12.5	145	1115	PA66W	Black (BK)	7–9

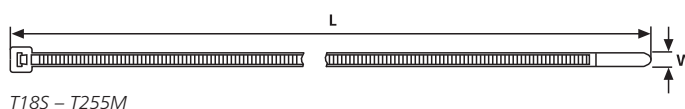
All dimensions in mm. Subject to technical changes.



Please Note for Product Specific Approvals please refer to the Appendix



T Series, Polyamide 6.6 – Heat Stabilised



Material Data

Material	Polyamide 6.6 Heat Stabilised (PA66HS)
Operating Temperature	-40 °C to +105 °C Continuous, (+145 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Colour	Application Tool
Polyamide 6.6 Heat Stabilised								
111-02815	T18S	83	2.3	16.0	80	PA66HS	Black (BK)	1–3, 5
111-01803	T18R	100	2.5	22.0	80	PA66HS	Black (BK)	1–3, 5
111-01959	T18R	100	2.5	22.0	80	PA66HS	Natural (NA)	1–3, 5
111-02306	T18I	140	2.5	35.0	80	PA66HS	Natural (NA)	1–3, 5
111-02358	T18I	140	2.5	35.0	80	PA66HS	Black (BK)	1–3, 5
111-02059	T18L	205	2.5	55.0	80	PA66HS	Natural (NA)	1–3, 5
111-02005	T18L	205	2.5	55.0	80	PA66HS	Black (BK)	1–3, 5
111-02501	T25L	240	2.8	65.0	110	PA66HS	Natural (NA)	1–3, 5
111-02602	T25LL	330	2.8	95.0	110	PA66HS	Natural (NA)	1–3, 5
111-03049	T30R	150	3.5	35.0	135	PA66HS	Natural (NA)	1–3, 5
111-03050	T30R	150	3.5	35.0	135	PA66HS	Black (BK)	1–3, 5
111-03459	T30L	190	3.5	50.0	135	PA66HS	Natural (NA)	1–3, 5
111-03450	T30L	190	3.5	50.0	135	PA66HS	Black (BK)	1–3, 5
111-04401	T30LR	260	3.3	65.0	135	PA66HS	Natural (NA)	1–5
111-04404	T30LR	260	3.3	65.0	135	PA66HS	Black (BK)	1–5
111-03569	T30LL	290	3.5	80.0	135	PA66HS	Natural (NA)	1–3, 5
111-00278	T30LL	290	3.5	80.0	135	PA66HS	Black (BK)	1–3, 5
111-03859	T40R	175	4.0	40.0	180	PA66HS	Natural (NA)	1–5
111-03970	T40R	175	4.0	40.0	180	PA66HS	Black (BK)	1–5
111-04614	T40I	290	4.0	80.0	180	PA66HS	Black (BK)	1–5
111-04314	T40L	365	4.0	105	180	PA66HS	Black (BK)	1–5
111-05850	T50S	150	4.6	35.0	225	PA66HS	Black (BK)	1–10
111-05859	T50S	150	4.6	35.0	225	PA66HS	Natural (NA)	1–10
111-04950	T50R	200	4.6	50.0	225	PA66HS	Black (BK)	1–10
111-04882	T50R	200	4.6	50.0	225	PA66HS	Natural (NA)	1–10
111-06205	T50M	245	4.6	65.0	225	PA66HS	Natural (NA)	1–10

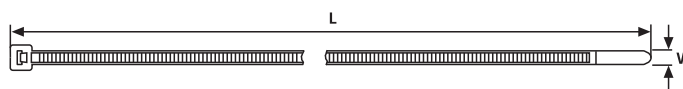
All dimensions in mm. Subject to technical changes.



Please Note for Product Specific Approvals please refer to the Appendix



T Series, Polyamide 6.6 – Heat Stabilised



T18S – T255M

Material Data	
Material	Polyamide 6.6 Heat Stabilised (PA66HS)
Operating Temperature	-40 °C to +105 °C Continuous, (+145 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Colour	Application Tool
Polyamide 6.6 Heat Stabilised								
111-05259	T50I	300	4.6	85.0	225	PA66HS	Natural (NA)	1–10
117-05250	T50I	300	4.6	85.0	225	PA66HS	Black (BK)	1–10
111-05435	T50L	390	4.6	110	225	PA66HS	Black (BK)	1–10
111-05436	T50L	390	4.6	110	225	PA66HS	Natural (NA)	1–10
111-05059	T80R	210	4.7	55.0	355	PA66HS	Natural (NA)	1–10
117-08070	T80R	210	4.7	55.0	355	PA66HS	Black (BK)	1–10
111-08259	T80I	300	4.7	85.0	355	PA66HS	Natural (NA)	1–10
111-08250	T80I	300	4.7	85.0	355	PA66HS	Black (BK)	1–10
111-05459	T80L	390	4.7	110	355	PA66HS	Natural (NA)	1–10
111-00388	T80L	390	4.7	110	355	PA66HS	Black (BK)	1–10
111-12850	T120S	225	7.6	55.0	535	PA66HS	Black (BK)	6–10
111-12824	T120S	225	7.6	55.0	535	PA66HS	Natural (NA)	6–10
111-12240	T120I	300	7.6	80.0	535	PA66HS	Black (BK)	6–10
111-12249	T120I	300	7.6	80.0	535	PA66HS	Natural (NA)	6–10
111-12050	T120R(E)	380	7.6	100	535	PA66HS	Black (BK)	6–10
111-12059	T120R(E)	380	7.6	100	535	PA66HS	Natural (NA)	6–10
111-00153	T120M	460	7.6	130	535	PA66HS	Black (BK)	6–10
111-12719	T120XM	600	7.6	175	535	PA66HS	Natural (NA)	6–10
111-12700	T120XM	600	7.6	175	535	PA66HS	Black (BK)	6–10
111-12440	T120L	760	7.6	225	535	PA66HS	Black (BK)	6–10
111-12449	T120L	760	7.6	225	535	PA66HS	Natural (NA)	6–10
111-15050	T150R(H)	365	7.6	100	670	PA66HS	Black (BK)	6–10
111-15069	T150R(H)	365	7.6	100	670	PA66HS	Natural (NA)	6–10
111-15609	T150M	530	8.9	150	780	PA66HS	Black (BK)	6–9
111-15410	T150L	820	8.8	245	780	PA66HS	Black (BK)	6–9
111-15510	T150XL	1095	8.9	330	780	PA66HS	Black (BK)	6–9

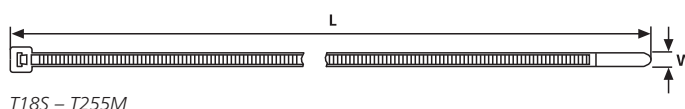
All dimensions in mm. Subject to technical changes.



Please Note for Product Specific Approvals please refer to the Appendix



T Series



Material Data

Material	Polyamide 6.6 Heat and UV Stabilised (PA66HSW)
Operating Temperature	-40 °C to +105 °C continuous
Flammability	UL94 V2



Material Data

Material	Polyamide 6.6 High Impact Modified (PA66HIR)
Operating Temperature	-40 °C to +80 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 HB



Material Data

Material	Polyamide 6.6 High Impact Modified, Heat Stabilised (PA66HIRHS)
Operating Temperature	-40 °C to +110 °C continuous
Flammability	UL94 HB



Material Data

Material	Polyamide 6.6 V0 (PA66V0)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V0



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Colour	Application Tool
Polyamide 6.6. Heat Stabilised, UV Stabilised								
111-01916	T18R	100	2.5	22.0	80	PA66HSW	Black (BK)	1–3, 5
111-03071	T30R	150	3.5	35.0	135	PA66HSW	Black (BK)	1–3, 5
111-04907	T50R	200	4.6	50.0	225	PA66HSW	Black (BK)	1–10
111-05253	T50I	300	4.6	85.0	225	PA66HSW	Black (BK)	1–10
111-05472	T50L	390	4.6	110	225	PA66HSW	Black (BK)	1–10
111-12822	T120S	225	7.6	55.0	535	PA66HSW	Black (BK)	6–10
Polyamide 6.6 High Impact Modified								
111-25500	T255S	225	12.5	55.0	1115	PA66HIRHS	Black (BK)	7-9
111-25400	T255R	515	12.5	145	1115	PA66HIR	Black (BK)	7-9
111-25300	T255M	560	12.5	160	1115	PA66HIR	Black (BK)	7-9
Polyamide 6.6 V0 rated								
111-91819	T18R	100	2.5	22.0	80	PA66V0	White (WH)	1–3, 5
111-02043	T18L	205	2.5	55.0	80	PA66V0	White (WH)	1–3, 5
111-93019	T30R	150	3.5	35.0	135	PA66V0	White (WH)	1–3, 5
111-95019	T50R	200	4.6	50.0	225	PA66V0	White (WH)	1–10
111-00317	T50I	300	4.6	85.0	225	PA66V0	White (WH)	1–10
111-91210	T120R(E)	380	7.6	100	535	PA66V0	White (WH)	6–10

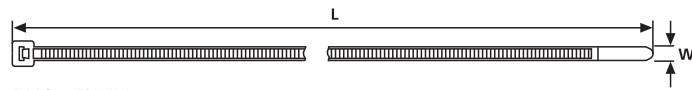
All dimensions in mm. Subject to technical changes.



Please Note for Product Specific Approvals please refer to the Appendix



T Series



T18S – T255M

Material Data	
Material	Ethylenterafluorineethylene - Tefzel (E/TFE)
Operating Temperature	-80 °C to +150 °C continuous
Flammability	UL94 V0

Tefzel® is a registered trademark of DuPont.



Material Data	
Material	Polyamide 4.6 (PA46)
Operating Temperature	-40 °C to +150 °C for 5000 h, (+195 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Colour	Application Tool
TEFZEL/ETFE								
111-01923	T18R(U)	100	2.5	22.0	40	E / TFE	Blue (BU)	1–3, 5
111-03343	T30L	198	3.6	50.0	66	E / TFE	Blue (BU)	1–3, 5
111-05026	T50R(U)	200	4.6	50.0	158	E / TFE	Blue (BU)	1–10
111-12826	T120S	225	7.6	55.0	311	E / TFE	Blue (BU)	6–10
111-12026	T120R	380	7.6	100	311	E / TFE	Blue (BU)	6–10
Polyamide 4.6 High Temp.								
111-01831	T18R	100	2.5	22.0	80	PA46	Natural (NA)	1–3, 5
114-03379	T30R	150	3.5	35.0	135	PA46	Natural (NA)	1–3, 5
111-00264	T30R	150	3.5	35.0	135	PA46	Grey (GY)	1–3, 5
114-04979	T50R	200	4.6	50.0	225	PA46	Natural (NA)	1–10
111-05220	T50I	300	4.6	85.0	225	PA46	Natural (NA)	1–10
114-05779	T50L	390	4.6	110	225	PA46	Natural (NA)	1–10
114-12179	T120R(E)	380	7.6	100	535	PA46	Natural (NA)	6–10
111-12401	T120L	760	7.6	225	535	PA46	Black (BK)	6–10

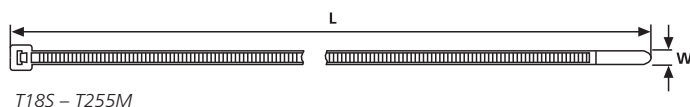
All dimensions in mm. Subject to technical changes.



Please Note for Product Specific Approvals please refer to the Appendix



T Series



Material Data

Material	Polyamide 6.6 High Impact Modified scan black (PA66HIR(S))
Operating Temperature	-40 °C to +80 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 HB



Material Data

Material	Polypropylene (PP)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 HB



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Colour	Application Tool
Polyamide 6.6 High Impact Modified scan black (PA66HIR(S))								
111-04890	T50R	200	4.6	50.0	225	PA66HIR(S)	Black (BK)	1–10
111-00222	T50I	300	4.6	85.0	225	PA66HIR(S)	Black (BK)	1–10
111-05441	T50L	390	4.6	110	225	PA66HIR(S)	Black (BK)	1–10
111-12203	T120I	300	7.6	80.0	535	PA66HIR(S)	Black (BK)	6–10
111-12032	T120R(E)	380	7.6	100	535	PA66HIR(S)	Black (BK)	6–10
111-12402	T120L	760	7.6	225	535	PA66HIR(S)	Black (BK)	6–10
Polypropylene (PP)								
111-01918	T18R	100	2.5	19.0	49	PP	Black (BK)	1–3, 5
111-01922	T18R	100	2.5	19.0	49	PP	Natural (NA)	1–3, 5
111-00471	T30R	150	3.5	35.0	89	PP	Natural (NA)	1–3, 5
111-00472	T30R	150	3.5	35.0	89	PP	Black (BK)	1–3, 5
111-04928	T50R	200	4.6	50.0	133	PP	Black (BK)	1–10
111-04931	T50R	200	4.6	50.0	133	PP	Natural (NA)	1–10
111-12827	T120S	225	7.6	55.0	267	PP	Black (BK)	6–10
111-00475	T120R	380	7.6	100	267	PP	Natural (NA)	6–10
111-12066	T120R	380	7.6	100	267	PP	Black (BK)	6–10

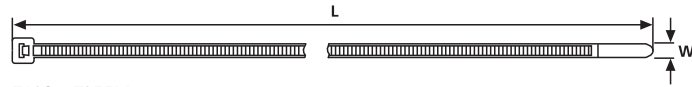
All dimensions in mm. Subject to technical changes.



Please Note for Product Specific Approvals please refer to the Appendix



T Series



T18S – T255M

Material Data	
Material	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C Continuous, (+105 °C for 500 h)
Flammability	UL94 V2



Technical Table

Article-No.	Type	Length (L)	Width (W)	Bundle Ø max.	Min. Tensile Strength (N)	Material	Colour	Application Tool
Polyamide 6.6 Colours								
116-01816	T18R	100	2.5	22.0	80	PA66	Blue (BU)	1–3, 5
111-01815	T18R	100	2.5	22.0	80	PA66	Green (GN)	1–3, 5
111-01812	T18R	100	2.5	22.0	80	PA66	Red (RD)	1–3, 5
111-01810	T18R	100	2.5	22.0	80	PA66	Yellow (YE)	1–3, 5
111-03008	T30R	150	3.5	35.0	135	PA66	Blue (BU)	1–3, 5
111-03014	T30R	150	3.5	35.0	135	PA66	Green (GN)	1–3, 5
111-03004	T30R	150	3.5	35.0	135	PA66	Red (RD)	1–3, 5
111-03006	T30R	150	3.5	35.0	135	PA66	Yellow (YE)	1–3, 5
111-03312	T30L	190	3.5	50.0	135	PA66	Blue (BU)	1–3, 5
111-00193	T30L	190	3.5	50.0	135	PA66	Green (GN)	1–3, 5
111-00196	T30L	190	3.5	50.0	135	PA66	Red (RD)	1–3, 5
111-03309	T30L	190	3.5	50.0	135	PA66	Yellow (YE)	1–3, 5
111-04800	T50R	200	4.6	50.0	225	PA66	Blue (BU)	1–10
111-04801	T50R	200	4.6	50.0	225	PA66	Green (GN)	1–10
111-04804	T50R	200	4.6	50.0	225	PA66	Red (RD)	1–10
111-04805	T50R	200	4.6	50.0	225	PA66	Yellow (YE)	1–10
111-05202	T50I	300	4.6	85.0	225	PA66	Blue (BU)	1–10
111-00284	T50I	300	4.6	85.0	225	PA66	Green (GN)	1–10
111-05203	T50I	300	4.6	85.0	225	PA66	Red (RD)	1–10
111-05208	T50I	300	4.6	85.0	225	PA66	Yellow (YE)	1–10
111-05404	T50L	390	4.6	110	225	PA66	Blue (BU)	1–10
111-05402	T50L	390	4.6	110	225	PA66	Green (GN)	1–10
111-05406	T50L	390	4.6	110	225	PA66	Red (RD)	1–10
111-05428	T50L	390	4.6	110	225	PA66	Yellow (YE)	1–10
116-08016	T80R	210	4.7	55.0	355	PA66	Blue (BU)	1–10
116-08015	T80R	210	4.7	55.0	355	PA66	Green (GN)	1–10
116-08012	T80R	210	4.7	55.0	355	PA66	Red (RD)	1–10
116-08014	T80R	210	4.7	55.0	355	PA66	Yellow (YE)	1–10
116-05416	T80L	390	4.7	110	355	PA66	Blue (BU)	1–10
116-05415	T80L	390	4.7	110	355	PA66	Green (GN)	1–10
116-05412	T80L	390	4.7	110	355	PA66	Red (RD)	1–10
116-05414	T80L	390	4.7	110	355	PA66	Yellow (YE)	1–10
111-12004	T120R(E)	380	7.6	100	535	PA66	Blue (BU)	6–10
111-12001	T120R(E)	380	7.6	100	535	PA66	Green (GN)	6–10
111-12002	T120R(E)	380	7.6	100	535	PA66	Red (RD)	6–10
111-12003	T120R(E)	380	7.6	100	535	PA66	Yellow (YE)	6–10

All dimensions in mm. Subject to technical changes.



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