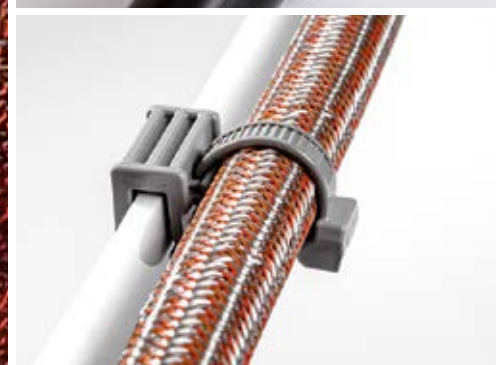




SAMPLE CASE

HellermannTyton



**Cable Management Solutions for
High Temperature Applications**

MADE FOR REAL[®]



Welcome to HellermannTyton

HellermannTyton is a leading manufacturer and supplier of products for fastening, fixing, installing, connecting, insulating, protecting and identifying electrical cables and data network infrastructure. Our mission is to provide you with innovative cable management solutions – wherever you need them around the globe.

Cable management parts made from plastics resistant to high temperatures

This case includes samples of HellermannTyton products designed especially for application where high temperatures can be expected. For example, in the vicinity of vehicle exhaust systems, turbines, electrical motors and appliances or systems involving hot water or coolant. Our product range is continually growing. Therefore, there are more samples in this case than are depicted on the printed overview. Please scan the QR code for detailed information about each product and view each item as a source of inspiration. If you don't find quite what you need, our sales representatives are always on hand to discuss your individual requirements.

Up to 150 °C

PA66:

the material behind Polyamide 6.6 offers especially for the product family braided sleeving a high temperature range up to +150 °C for a very good abrasion resistance.

PET/ SNCU:



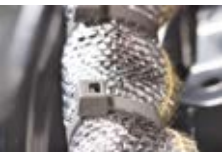


Polyester (PET) with tin-plated copper (SNCU) shield against salt-spray designed for a maximum operating temperature of +150 °C. This material provides excellent electromagnetic and abrasion protection and is extremely flexible.

PET:

A sturdy but highly flexible polyester with high abrasion resistance for a maximum operating temperature of +150 °C.

PA46:






PA46 is suitable for applications up to +150 °C. Beside the high temperature resistance PA46 also offers very good fire safety properties as well as excellent resistance to chemicals.

CABLE TIES				
PART DESCRIPTION	Image	Bundle Ø max.		Operating Temperature
Cable tie, double loop				
T50RDH-PA46-GY		38.0	225 N	-40 °C to +150 °C
Cable ties, inside serrated				
T30R-PA46-GY		35.0	135 N	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
T50R-PA46-GY		50.0	225 N	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
T50L-PA46-NA		110.0	225 N	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
Cable ties, outside serrated				
V100R-PA46-GY		20.0	100 N	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)

CABLE TIES				
PART DESCRIPTION	Image	Bundle Ø max.		Operating Temperature
Cable tie, double loop				
T50ROS-PA46-GY		50.0	225 N	-40 °C to +150 °C
Cable ties without serration				
KR8/33-PA46-GY		86.0	785 N	-40 °C to +150 °C



Other dimensions/variants
available on request!
For more information please contact us!

FIXING TIES FOR HOLES					
PART DESCRIPTION	Image	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Operating Temperature
Fixing Tie, oval hole, arrow head, 1 piece					
T80RFT6X12-PA46-GY		6.3 x 12.3	0.6 - 3.0	45.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
Fixing Tie, oval hole, arrow head, 2 pieces					
T50RFT62x122HR-PA46-GY		6.3 x 12.2	0.6 - 3.0	45.0	-40 °C to +150 °C
Fixing Tie, oval hole, fir tree, 1 piece					
T50SOS2DOP62X122-E-PA46-GY		6.2 x 12.2	0.6 - 6.0	35.0	-40 °C to +135 °C, (+140 °C, 500 h)
T50ROSFTOVALU-PA46-BN		6.2 x 12.2, 6.5 x 12.5, 6.5 x 13.0, 7.0 x 12.0	0.6 - 6.75	50.0	-40 °C to +130 °C
Fixing Tie, round hole, arrow head, 1 piece					
T80RSFT-PA46-GY		5.7 - 6.3	1.0 - 3.5	45.0	-40 °C to +150 °C





FIXING TIES FOR HOLES					
PART DESCRIPTION	Image	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Operating Temperature
Fixing Tie, oval hole, arrow head, 1 piece					
T50SSL5-PA46-GY		6.1 - 6.5	0.5 - 2.7	27.0	-40 °C to +150 °C
Fixing Tie, round hole, arrow head, 2 pieces					
T80RSF6.5F-PA46-GY		6.3 - 6.5	0.6 - 3.0	50.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
T50ROSP2SFT6.5-PA46/PEEK-GY/BGE		6.3 - 6.7	1.7 - 2.3	45.0	-40 °C to +150 °C -55 °C to +240 °C
Fixing Tie, round hole, DHA, 2 pieces					
T50RDHA5.5x15-PA46-GY		5.4 - 5.6	15.0	45.0	-40 °C to +150 °C
Fixing Tie, round hole, fir tree, 1 piece					
T30SOS-AS-FT5-E-PA46-GY		4.8 - 5.2, M6	0.7 - 4.5	25.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
T50SOSFT6D10E-PA46-GY		5.8 - 6.2	0.8 - 5.5	32.0	-40 °C to +150 °C
T50SOSFT6E1-PA46-GY		6.3 - 7.0	0.7 - 3.0	35.0	-40 °C to +150 °C










FIXING TIES FOR HOLES					
PART DESCRIPTION	Image	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Operating Temperature
Fixing Tie, oval hole, arrow head, 1 piece					
T50SOSFT6E-PA46-GY		6.5 - 7.0	0.75 - 3.0	32.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
T50SOSFT8E-PA46-GY		8.0 - 8.5	0.6 - 6.0	35.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
Fixing Tie, round hole, fir tree, 2 pieces					
T30RFT5-PA46-NA/GY		4.5 - 5.0	0.7 - 3.0	34.0	-40 °C to +150 °C
T50RFT6-PA46-GY		6.4 - 7.1	0.75 - 3.0	45.0	-40 °C to +150 °C
T50ROSFT6SD-PA46-GY		6.4 - 7.1	0.75 - 3.0	45.0	-40 °C to +150 °C
T50RFT6LG-PA46-GY		6.5 - 7.0	0.75 - 6.0	45.0	-40 °C to +150 °C
T50RFT8GSD-PA46-GY		8.0 - 8.5	1.5 - 4.0	45.0	-40 °C to +130 °C




Other dimensions/variants available on request!
For more information please contact us!



EDGE FIXATION PRODUCTS					
PART DESCRIPTION	Image	Panel Thickness	Bundling Bar Length	Bundle Ø max.	Operating Temperature
Bundling Clip, edge					
EC17-PA46-GY		1.0 - 3.0	46.5	-	-40 °C to +150 °C
Edge Clip, cable tie, 1 piece					
T50SOSEC34E-PA46-GY		1.0 - 3.0	-	35.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
Edge Clip, cable tie, 2 pieces					
T50ROSEC4B-PA46-GY		1.0 - 3.0	-	45.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
T50ROSEC21-PA46-GY		1.0 - 3.0	-	45.0	-40 °C to +150 °C, (+195 °C, 500 h)
T50ROSEC19-PA46-GY		3.0 - 6.0	-	45.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)

BUNDLING CLIPS						
PART DESCRIPTION	Image	Hole Ø (FH)	Panel Thickness	Bundling Bar Length	Offset Length	Operating Temperature
Bundling Clip, edge						
EC17-PA46-GY		-	1.0 - 3.0	46.5	-	-40 °C to +150 °C
Bundling Clip, round hole, arrow head, offset						
STAND OFF CLIP-PA46-GY		6.5 - 6.8	0.4 - 1.6	40.0	31.0	-40 °C to +150 °C, (+195 °C, 500 h)







PRODUCTS TO SCREW				
PART DESCRIPTION	Image	Bundle Ø max.	Mounting Screw Type	Operating Temperature
Fixing Tie, screwable				
T120SHDM8-PA46-GY		55.0	M8	-40 °C to +150 °C
T120RHDM6-PA46-GY		105.0	M6	-40 °C to +150 °C


PRODUCTS TO USE ON STUDS				
PART DESCRIPTION	Image	Stud Ø	Bundle Ø max.	Operating Temperature
Fixing Tie, stud size 5 mm, 1 piece				
T50SOSWSP5E-PA46-GY		5.0	35.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
Fixing Tie, stud size 5 mm, 2 pieces				
T50RSB5-PA46-GY		5.0	45.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
Fixing Tie, stud size from 6 mm, 1 piece				
SBR8S-PA46-GY		8.0	40.0	-40 °C to +150 °C




Other dimensions/variants available on request!
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PRODUCTS FOR WIRES AND HOSES						
PART DESCRIPTION	Image	Attach to Ø	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Operating Temperature
Fixing tie, hose retainer, open						
T30ROC2A-PA46-GY		6.5 - 7.5	-		31.0	-40 °C to +150 °C
Fixing Tie, hose retainer, open, 1 piece						
Bracket brake line-PA46-GY		4.8 - 5.4	-		35.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
Fixing tie, hose retainer, open, rotatable						
T50SVCOC10-14-PA46-GY		10.0 - 14.0	-		35.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
T50SMVCOC19-24.5-PA46-GY		19.0 - 24.5	-		50.0	-40 °C to +150 °C
Harness Clip, open, round hole, fir tree						
PC5DP7L-PA46-BK		5.0	7.0	0.8 - 7.0	5.0	-40 °C to +150 °C

PRODUCTS FOR CONVOLUTED TUBES					
PART DESCRIPTION	Image	Attach to Ø	Hole Ø (FH)	Panel Thickness	Operating Temperature
Convoluted Tubing Clip, round holes, fir tree					
CTCL8.5FT6LG-PA46-GY		NW8,5	6,3 - 6,7	0.75 - 3.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)

PRODUCTS FOR PARALLEL/MULTIPLE ROUTING				
PART DESCRIPTION	Image	Attach to Ø	Bundle Ø max.	Operating Temperature
Cable tie, double loop				
T50RDH-PA46-GY		-	38.0	-40 °C to +150 °C



PRODUCTS FOR PARALLEL/MULTIPLE ROUTING				
PART DESCRIPTION	Image	Attach to Ø	Bundle Ø max.	Operating Temperature
Cable tie coupler				
T50RCOUPLER-PA46-GY		-	47.0	-40 °C to +150 °C
Fixing tie, hose retainer, open				
T30ROC2A-PA46-GY		6.5 - 7.5	31.0	-40 °C to +150 °C
Fixing Tie, hose retainer, open, 1 piece				
Bracket brake line-PA46-GY		4.8 - 5.4	35.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)
Fixing tie, hose retainer, open, rotatable				
T50SVCOC10-14-PA46-GY		10.0 - 14.0	35.0	-40 °C to +130 °C, (+150 °C, 5000 h; +195 °C, 500 h)



**Other dimensions/variants
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CABLE PROTECTION SYSTEMS					
PART DESCRIPTION	Image	Nominal Ø	Bundle Ø min.	Bundle Ø max.	Operating Temperature
Protective Sleeves					
HEGPA6612-PA66-BK		12	8	14	-60 °C to +150 °C
HEGP20-PET-BK		20	14	26	-50 °C to +150 °C
HEGEMIP-HY50-PET/SNCU-OG/SR		50	40	60	-40 °C to +150 °C




Up to 170 °C

E/TFE:

Ethylene Tetrafluoroethylene products are ideal for use in aggressive chemical environments at temperatures up to +170 °C. This highly resistant thermoplastic protects against weathering conditions, radiation and has a good impact strength.

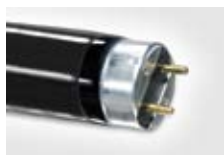
CABLE TIES				
PART DESCRIPTION	Image	Bundle Ø max.		Operating Temperature
Cable ties, inside serrated				
T18R-E/TFE-BU		22.0	80 N	-80 °C to +170 °C
T50R-E/TFE-BU		50.0	225 N	-80 °C to +170 °C
T120R-E/TFE-BU		105.0	535 N	-80 °C to +170 °C

PRODUCTS TO SCREW				
PART DESCRIPTION	Image	Hole Ø (FH)	Mounting Screw Type	Operating Temperature
Mount, screwable, 2 ties				
KR6G5-E/TFE-BU		4.5	M4	-80 °C to +170 °C
KR8G5-E/TFE-BU		6.5	M6	-80 °C to +170 °C

Up to 175 °C

PVDF:

Polyvinylidene fluoride is a transparent high performance material for high temperature applications up to +175 °C. PVDF also offers very good electrical properties and an excellent chemical resistance.



INSULATION						
PART DESCRIPTION	Image	Shrink Ratio	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Operating Temperature
Heat Shrinkable Tubing						
TK20-9.5/4.8-PVDF-CL		2:1	9.5	4.75	0.30	-55 °C to +175 °C



Up to 200 °C

PAEK:

Polyacryletherketone cable ties offer very high temperature resistance up to +200 °C for use in demanding applications such as in engine compartments, near exhaust, and in enclosed industrial cabinets. The PAEK ties are inside serrated and feature a high performance design that, along with the material, offer extremely high tensile strength for tough applications.

CABLE TIES				
PART DESCRIPTION	Image	Bundle Ø max.		Operating Temperature
Cable ties, inside serrated				
PAT100L-PAEK-BGE		50.8	445 N	-55 °C to +200 °C






Other dimensions/variants available on request!
For more information please contact us!




Up to 240 °C


PEEK:

PEEK is considered to be one of the highest-performing thermoplastics on the market suitable for applications where temperatures can reach +240 °C. As well as having excellent radiation resistance properties, it is highly resistant to chemicals. PEEK can be used instead of metal components to offer unique weight advantages.

CABLE TIES				
PART DESCRIPTION	Image	Bundle Ø max.		Operating Temperature
Cable ties, inside serrated				
PT220-PEEK-BGE		56.0	380 N	-55 °C to +240 °C
Cable ties, outside serrated				
PT2A-PEEK-BGE		35.0	230 N	-55 °C to +240 °C



FIXING TIES FOR HOLES					
PART DESCRIPTION	Image	Hole Ø (FH)	Panel Thickness	Bundle Ø max.	Operating Temperature
Fixing Tie, round hole, arrow head, 1 piece					
PT2ASFT6.5PT0.7-1.5-E-PEEK-BGE		6.3 - 6.7	0.7 - 1.5	20.0	-55 °C to +240 °C
Fixing Tie, round hole, arrow head, 2 pieces					
PT2AP1SFT6.5-PEEK-BGE		6.3 - 6.7	0.7 - 1.3	35.0	-55 °C to +240 °C
Fixing Tie, round hole, fir tree, 2 pieces					
PT2AFT6LG-PEEK/PA46-BGE/GY		6.4 - 7.1	0.75 - 6.0	35.0	-55 °C to +240 °C

PRODUCTS TO SCREW				
PART DESCRIPTION	Image	Hole Ø (FH)	Mounting Screw Type	Operating Temperature
Mount, screwable, 2 ties				
CTAM1-PEEK-BGE		4.3	M4	-55 °C to +240 °C





Other dimensions/variants available on request!
For more information please contact us!




Up to 260 °C

Polytetrafluorethylene provides excellent fire safety, abrasion protection and extreme temperature resistance up to +260 °C. PTFE is also known for its excellent chemical resistance and ease of cleaning.

INSULATION						
PART DESCRIPTION	Image	Shrink Ratio	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Operating Temperature
Heat Shrinkable Tubing						
TFE4-1/2-PTFE-CL		4:1	12.7	3.66	0.38	-65 °C to +260 °C

PROTECTION							
PART DESCRIPTION	Image	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Operating Temperature
Spiral Binding							
SBPTFE4-PTFE-NA		4	0.7	7.8	5	20	-60 °C to +260 °C, intermittent +350 °C

PROTECTION							
PART DESCRIPTION	Image	Panel Thickness	Width (W)	Width (W2)	Height (H)	Height (H2)	Operating Temperature
Edge Protection							
G51TD-PTFE-NA		3.3 - 4.8	8.4	5.1	6.2	4.3	-60 °C to +260 °C, intermittent +350 °C






Up to 538 °C



SS304:


Stainless Steel SS304 is ideal for all applications that require high strength, reliability against corrosion and weather as well as fire and chemical resistance. For high temperature applications up to +538 °C.

SS316:



Stainless Steel SS316 is particularly suitable for all applications that require high strength, reliability against weather as well as fire and chemical resistance. SS316 is extremely resistant against corrosion. For high temperature applications up to +538 °C.

CABLE TIES				
PART DESCRIPTION	Image	Bundle Ø max.		Operating Temperature
Cable ties, stainless steel				
MST200S-SS304-ML		50.0	900 N	-80 °C to +538 °C
MBT8S-SS316-ML		50.0	900 N	-80 °C to +538 °C

EDGE FIXATION PRODUCTS				
PART DESCRIPTION	Image	Panel Thickness	Attach to Ø	Operating Temperature
Edge Clip, hose retainer				
MSC901-SS304-ML		0.76 - 1.24	4,1 - 7,39	-80 °C to +538 °C
MSC2LP-SS304-ML		1.5 - 2.0	4,1 - 7,0	-80 °C to +538 °C

PRODUCTS TO SCREW				
PART DESCRIPTION	Image	Hole Ø (FH)	Mounting Screw Type	Operating Temperature
Mount, screwable				
SSPC5-SS316-ML		5.3	M5	-80 °C to +538 °C



PRODUCTS FOR WIRES AND HOSES				
PART DESCRIPTION	Image	Attach to Ø	Panel Thickness	Operating Temperature
Edge Clip, hose retainer				
MSC2LP-SS304-ML		4.1 - 7.0	1.5 - 2.0	-80 °C to +538 °C
MSC901-SS304-ML		4.1 - 7.39	0.76 - 1.24	-80 °C to +538 °C



**Other dimensions/variants
available on request!**
For more information please contact us!

For detailed product information please follow:



www.ht.click/48-1



HellermannTyton
www.HellermannTyton.com

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SC in High Temperature Applications