









Date of issue: September 2022

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**T** **7.1 Abbreviations Table for Product Materials and Colours**

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**T** **7.2 Degrees of Protection (IP) according to DIN EN IEC 60529**

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7.4 Numerical Index

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7.6 General Terms and Conditions of Sale

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ABC

7.5 Alphanumerical Index

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## Abbreviations Table for Product Materials and Colours

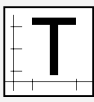
Abbreviation*	Material
1101	Type 1101, Polyester, white (1101)
1102	Type 1102, Polyester, yellow (1102)
1103	Type 1103, Polyester, silver (1103)
1104	Type 1104, Polyester, white transparent, self-laminating (1104)
1105	Type 1105, Polyester, white transparent, self-laminating (1105)
1203	Type 1203, Polyester, silver matt, tamper-proof (1203)
1204	Type 1204, Polyester (1204)
1206	Type 1206, Polyester (1206)
1208	Type 1208, Acetate foil, white, tamper-proof (1208)
1209	Type 1209, Vinyl (1209)
1211	Type 1211, Vinyl, yellow gloss (1211)
1213	Type 1213, Vinyl, glossy colours (1213)
1216	Type 1216, Polyethylene, white (1216)
1220	Type 1220, Polyester, white (1220)
1221	Type 1221, Polyester, silver (1221)
1232	Type 1232, Polyester, white transparent, self-laminating (1232)
1251	Type 1251, Polyester, silver and Polyester, transparent (1251)
1401	Type 1401, Vinyl (1401)
1402	Type 1402, Vinyl (1402)
270	Type 270, Cotton cloth, yellow (270)
323	Type 323, Polyvinylidene Fluoride (323)
880	Type 880, Vinyl (880)
892	Type 892, Vinyl, white (892)
ABS	Acrylonitrile Butadiene Styrene (ABS)
AL	Aluminium (AL)
BS	Brass (BS)
CO	Cotton (CO)
CR	Chloroprene rubber (CR)
DIV	Various (DIV)
E/TFE	Ethylene Tetrafluoroethylene (E/TFE)
EP	Epoxy resins (EP)
EPR	Ethylene Propylene Rubber (EPR)
EVA	Ethylenevinylacetate (EVA)
FPMX	Fluoropolymer, cross-linked (FPMX)
GF	Glass Fibre (GF)
GS	Galvanised Steel (GS)
IIR	Isobutene-Isoprene-Rubber (butyl rubber) (IIR)
LPG+	Butane/Propane (LPG+)
MET	Metal (MET)
NPB	Nickel Plated Brass (NPB)
NR	Natural Rubber (NR)
PA	Polyamide (PA)
PA11	Polyamide 11 (PA11)
PA12	Polyamide 12 (PA12)
PA46	Polyamide 4.6 (PA46)
PA6	Polyamide 6 (PA6)
PA66	Polyamide 6.6 (PA66)
PA66/6HIRHS	Polyamide 6.6/6, high impact modified, heat stabilised (PA66/6HIRHS)
PA66/PP	Polyamide 6.6 Polypropylene (PA66/PP)
PA666V0	Polyamide 6.6/6, V0 (PA666V0)
PA66GF13	Polyamide 6.6, glass-fibre reinforced (PA66GF13%)
PA66GF15	Polyamide 6.6, glass-fibre reinforced (PA66GF15%)

Abbreviation*	Material
PA66HIR	Polyamide 6.6, high impact modified (PA66HIR)
PA66HIR(S)	Polyamide 6.6, high impact modified, scan black (PA66HIR(S))
PA66HIRHS	Polyamide 6.6, high impact modified, heat stabilised (PA66HIRHS)
PA66HIRHSUV	Polyamide 6.6, high impact modified, heat and UV-stabilised (PA66HIRHSUV)
PA66HS	Polyamide 6.6, heat stabilised (PA66HS)
PA66HSUV	Polyamide 6.6, heat and UV-stabilised (PA66HSUV)
PA66HSW	Polyamide 6.6, heat and UV-resistant (PA66HSW)
PA66MP	Polyamide 6.6, with metal particles (PA66MP)
PA66MP+	Polyamide 6.6, with metal particles (PA66MP+)
PA66UV	Polyamide 6.6, UV-stabilised (PA66UV)
PA66V0	Polyamide 6.6 V0 (PA66V0)
PA66W	Polyamide 6.6, UV-resistant (PA66W)
PA6FR	Polyamide 6, flame retardant (PA6FR)
PA6GF15	Polyamide 6, glass-fibre reinforced (PA6GF15%)
PA6GF30	Polyamide 6, glass-fibre reinforced (PA6GF30%)
PA6HIR	Polyamide 6, high impact modified (PA6HIR)
PA6V0	Polyamide 6 V0 (PA6V0)
PBT	Polyester (PBT)
PC	Polycarbonate (PC)
PC/ABS	Acrylonitrile Butadiene Styrene alloyed with Polycarbonate (PC/ABS)
PE	Polyethylene (PE)
PEEK	Polyetheretherketone (PEEK)
PE-FR	Polyethylene (PEFR), Flame retardant
PET	Polyester (PET)
PEUV	Polyethylene, UV Resistant (PEUV)
PL	Plastic (PL)
PLGF	Plastic, glass-fibre reinforced (PLGF)
PMPI	Polyaramid Polymetaphenylene Isophthalamide (PMPI)
PO	Polyolefin (PO)
POA	Elastomer, cross-linked (POA)
POM	Polyacetal (POM)
PO-X	Polyolefin, cross-linked (PO-X)
PP	Polypropylene (PP)
PPMP+	Polypropylene with metal particles (PPMP+)
PTFE	Polytetrafluoroethylene (PTFE)
PUR	Polyurethane (PUR)
PVC	Polyvinylchloride (PVC)
PVC-FR	Polyvinylchloride, flame retardant (PVC-FR)
PVDF	Polyvinylidene Fluoride (PVDF)
SI	Silicone (SI)
SNCU	Tin Plated copper (SNCU)
SP	Polyester (SP)
SS	Stainless Steel (SS)
SS304	Stainless Steel (SS304)
SS316	Stainless Steel (SS316)
ST	Steel (ST)
TPE	Thermoplastic Elastomer (TPE)
TPU	Thermoplastic Polyurethane (TPU)
ZN	Zinc plated (ZN)

\*according to EN ISO 1043 Part 1 and ISO 1629

Abbreviation	Colour
BGE	Beige (BGE)
BK*	Black (BK)
BKIDWH	Black with White Identification Yarn (BKIDWH)
BN*	Brown (BN)
BS	Brass (BS)
BU*	Blue (BU)
CL	Transparent (CL)
DKBU	Dark Blue (DKBU)
DKGY	Dark Grey (DKGY)
FLPK	Fluorescent Pink (FLPK)
GN*	Green (GN)
GNYE*	Green-Yellow (GNYE)
GSWH	White gloss (GSWH)
GSYE	Yellow gloss (GSYE)
GY*	Grey (GY)
LTBU	Light Blue (LTBU)
MGN	Mint Green (MGN)
MIX	Various (MIX)
ML	Metal (ML)
MST	Mustard (MST)
MTSR	Silver matt (SR)
MTYE	Yellow matt (MTYE)
NA	Natural (NA)
OG*	Orange (OG)
PK	Pink (PK)
RD*	Red (RD)
RUS	Russet (RUS)
SR*	Silver (SR)
TCBK	Tin coloured and Black
TT	Translucent (TT)
VT*	Violet (VT)
WH*	White (WH)
YE*	Yellow (YE)

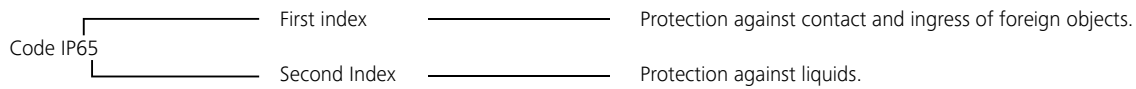
\*according to DIN IEC 60757



### Definition of the degrees of protection according to DIN EN IEC 60529 (for HelaGuard flexible conduits and fittings)

The levels of protection are indicated by a code made up of two constant letters IP and two characteristic numbers for the degree of protection, e.g. IP54.

#### Example:



### Degree of protection against access and foreign bodies










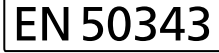











Index	Designation	Scope of protection
0	<b>Non-protected</b>	No special protection for persons against direct contact with live or moving parts. No protection of the equipment against ingress of solid foreign objects.
1	<b>Protection against large foreign bodies</b>	Protection against accidental contact of large areas with live and internal moving parts, e.g. back of hand, but not protection against deliberate access to the parts. Protection against ingress of solid foreign objects with a diameter greater than 50 mm.
2	<b>Protection against medium-sized foreign bodies</b>	Protection against contact between the finger and live or internal moving parts. Protection against ingress of solid foreign objects with a diameter greater than 12.5 mm.
3	<b>Protection against small foreign bodies</b>	Protection against contact between live or internal moving parts and tools, wires and the like with a thickness greater than 2.5 mm. Protection against ingress of solid foreign objects with a diameter greater than 2.5 mm.
4	<b>Protection against granular foreign objects</b>	Protection against contact between live or internal moving parts and tools, wires and the like with a thickness greater than 1 mm. Protection against ingress of solid foreign objects with a diameter greater than 1 mm.
5	<b>Protection against dust deposits</b>	Complete protection against contact with live or internal moving parts, protection against hazardous dust deposits. The ingress of dust is not completely prevented, but dust may not penetrate in such quantities as to impair the function.
6	<b>Protection against dust entry</b>	Complete protection against contact with live or internal moving parts. Protection against the ingress of dust.

### Degrees of protection for water

Index	Designation	Scope of protection
0	<b>Non-protected</b>	No special protection.
1	<b>Protection against vertically dripping water</b>	Water dripping vertically must cause no damage.
2	<b>Protection against dripping water (tilted)</b>	Water dripping at an angle of 15° to the vertical from any direction must cause no damage.
3	<b>Protection against spraying water</b>	Water dripping at an angle of 60° to the vertical from any direction must cause no damage.
4	<b>Protection against splashing water</b>	Water that splashes against the equipment from any direction must cause no damage.
5	<b>Protection against water jets</b>	A water jet from a nozzle that is directed against the equipment from any direction must cause no damage.
6	<b>Protection against flooding</b>	Water must not penetrate the equipment in hazardous quantities in cases of temporary flooding, e.g. due to heavy seas.
7	<b>Protection during temporary immersion</b>	Water must not penetrate the equipment in hazardous quantities if the equipment is immersed in water under the specified conditions of pressure and time (1m for 30 min.).
8	<b>Protection during continuous immersion</b>	Water must not penetrate the equipment in hazardous quantities if the equipment is immersed in water (at least 2 bar for 2 h for HelaGuard IP68 non-metallic fittings and 5 bar for 5 h for HelaGuard IP68 metallic fittings.)
9k	<b>Protection against high pressure/steam jet cleaning</b>	Highly pressurised water directed at the enclosure from any direction must cause no damage.




## Standards/Standards Organisations/Authorities

ABS	American Bureau of Shipping	USA	
ASN	AeroSpatiale Normalisation	France	
ASTM	ASTM International	USA	
BS	British Standard	Great Britain	
DAN	Deutsche Airbus Norm	Europe	
DEF STAN	Defence Standard	Great Britain	
DNV	Det Norske Veritas	Norway	
ECE	World Vehicle and Vehicle Law Harmonization Forum	Europe	
EN 45545-2	European Standard EN 45545-2	Europe	
EN 50343	European Standard EN 50343	Europe	
FCC	Federal Communications Commission	USA	
LEA	Liste des Equivalences Approuvés	France	
MIL	Military Specification	USA	
MS	Military Standard	USA	
NASM	National Aerospace Standard, Metric	USA	
NF F	Norme Française Ferroviaire	France	
SAE	Society of Automotive Engineers	USA	
STD	Standard for Dassault	France	
UL	Underwriters Laboratories	USA	
UNI CEI	Ente Nazionale Italiano di Unificazione Comitato Elettrotecnico Italiano	Italy	
VG	Verteidigungsgerätenorm der Bundeswehr	Germany	

















## References

NSA	Norm Sud Aviation	France	
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## Testing Institute/Certifying Company

BV	Bureau Veritas	France	
CSA	Canadian Standards Association	Canada	
DEMKO	Danske Elektriske Materialekontrol	Denmark	
DNV	Det Norske Veritas	Norway	
IMQ	Certificazione di prodotti	Italy	
FIMKO	Suomalainen testaus ja sertifiointiyriyitys	Finland	
KEMA KEUR	KEMA Quality B.V.	Netherlands	
LR	Lloyd's Register	Great Britain	
NEMKO	Norges Elektriske Materiellkontroll	Norway	
SEMKO	Sveriges Elektriska Materielkontroll	Sweden	
UL Recognized	Underwriters Laboratories Recognized Canada and US	Canada, USA	
VDE	Verband der Elektrotechnik, Elektronik, Informationstechnik	Germany	



### Certification mark

ATEX	ATEX (Atmosphères Explosibles) Directive	International	
CE	Conformité Européenne	Europe	
CEBEC	Comité for electrotechnical Belgium European Community	Belgium	
ECE	World Vehicle and Vehicle Law Harmonization Forum	Europe	
EN 45545-2	European Standard EN 45545-2	Europe	
EN 50343	European Standard EN 50343	Europe	
ENEC	European Norms Electrical Certification	Europe	
GS	Geprüfte Sicherheit	Europe	
JAR/FAR	Joint Aviation Regulations / Federal Aviation Regulations	Europe, USA	
JN	Particular Specification developed for Eurofighter Program		
UL	Underwriters Laboratories	USA	
UL Recognized	Underwriters Laboratories Recognized	USA	
cULus	Canadian Underwriters Laboratories	Canada, USA	
VDE	Verband der Elektrotechnik, Elektronik, Informationstechnik	Germany	



## Standards for HellermannTyton Cable Ties and Fixings

Material	Colour	Specifications	UL-File Number
<b>CTAM1</b>			
PA66	WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>CTAM2</b>			
PA66	WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>CTM0</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	WH		
<b>CTM1</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	WH		
<b>CTM2</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	WH		
<b>CTM3</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	WH		
<b>CTM4</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	WH		
<b>CTQM5</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
	NA		
<b>CTT20R</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
PA66HS	BK		
<b>CTT60R</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>H11P</b>			
PA66	NA	DIN EN 45545-2	
<b>H12P</b>			
PA66	NA	DIN EN 45545-2	
<b>H13P</b>			
PA66	NA	DIN EN 45545-2	
<b>H14P</b>			
PA66	NA	DIN EN 45545-2	
<b>H15P</b>			
PA66	NA	DIN EN 45545-2	
<b>H16P</b>			
PA66	NA	DIN EN 45545-2	
<b>H4P</b>			
PA66	NA	DIN EN 45545-2	
<b>H5P</b>			
PA66	NA	DIN EN 45545-2	
<b>H6P</b>			
PA66	NA	DIN EN 45545-2	

Material	Colour	Specifications	UL-File Number		
<b>KR6/35</b>					
PA66	NA	DIN EN 45545-2, IEC 62275:2006			
PA66HS		IEC 62275:2006			
PA66UV	BK				
<b>KR6G5</b>					
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275	E64962		
PA66	NA	DIN EN 45545-2			
<b>KR8/21</b>					
PA66	NA	DIN EN 45545-2, IEC 62275:2006			
PA66UV	BK	IEC 62275:2006			
<b>KR8/33</b>					
PA66	NA	DIN EN 45545-2, IEC 62275:2006			
PA66UV	BK	IEC 62275:2006			
<b>KR8/43</b>					
PA66HS	BK	EN 45545-2			
<b>KR8G5</b>					
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275	E64962		
PA66	NA	DIN EN 45545-2			
<b>LK2</b>					
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, IEC 60092 series, IEC 62275:2006	E64963		
<b>LK2A</b>					
PA66	BK	IEC 60092 series, IEC 62275			
	BU	IEC 60092 series			
	NA	RD	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/CSA-C22.2 no. 18.5, CAN/CSA-C22.2 no. 62275, IEC 60092 series	E64963	
					YE
	PA66HIR	BK	IEC 60092 series		
	PA66HIR(S)				
PA66HS		CAN/CSA-C22.2 no. 62275, IEC 60092 series	E64963		
	BN	IEC 60092 series			
PA66W	BK				

**i** June 2022. We have carefully checked all the information on our catalogue pages. Nevertheless, data and facts may have changed in the meantime. Consequently, we do not guarantee that the information is current, complete and correct in every case. Please consult our Internet site for further details and the most current status.



## Standards for HellermannTyton Cable Ties and Fixings

Material	Colour	Specifications	UL-File Number
<b>LK5</b>			
PA66	BK	IEC 60092 series	E64963
	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, IEC 60092 series	
PA66HIR(S)	BK	IEC 60092 series	
PA66HS	NA	CAN/CSA-C22.2 no. 62275, IEC 60092 series	E64963
PA66W	BK	IEC 62275:2006	
<b>LPH175</b>			
PA66	BK	IEC 60092 series	
<b>LPH275</b>			
PA66HIR(S)	BK	IEC 60092 series	
<b>LPH350</b>			
PA66HIR(S)	BK	IEC 60092 series	
<b>MB5</b>			
PA66	WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>MBT14H</b>			
SS316	ML	IEC 60092, IEC 62275:2018, IEC 62275	
<b>MBT14S</b>			
SS316	ML	IEC 62275:2006, IEC 62275:2018, IEC 62275	
<b>MBT14XH</b>			
SS316	ML	IEC 60092, IEC 62275:2018	
<b>MBT20H</b>			
SS316	ML	IEC 60092, IEC 62275:2006, IEC 62275:2018, IEC 62275	
<b>MBT20S</b>			
SS316	ML	IEC 60092, IEC 62275:2018, IEC 62275	
<b>MBT20XH</b>			
SS316	ML	IEC 60092	
<b>MBT27H</b>			
SS316	ML	IEC 60092, IEC 62275:2006, IEC 62275:2018, IEC 62275	
<b>MBT27S</b>			
SS316	ML	IEC 60092, IEC 62275:2006, IEC 62275:2018, IEC 62275	
<b>MBT27XH</b>			
SS316	ML	IEC 60092	
<b>MBT33H</b>			
SS316	ML	IEC 60092, IEC 62275:2006, IEC 62275:2018, IEC 62275	
<b>MBT33S</b>			
SS316	ML	IEC 60092, IEC 62275:2006, IEC 62275:2018, IEC 62275	
<b>MBT33XH</b>			
SS316	ML	IEC 60092	
<b>MBT5S</b>			
SS316	ML	IEC 60092, IEC 62275:2018, IEC 62275	
<b>MBT8H</b>			
SS316	ML	IEC 62275:2006, IEC 62275:2018, IEC 62275	

Material	Colour	Specifications	UL-File Number
<b>MBT8S</b>			
SS316	ML	IEC 60092, IEC 62275:2006, IEC 62275:2018, IEC 62275	
<b>MLT12SS10</b>			
SS316	ML	IEC 60092 series	
<b>MLT12SS5</b>			
SS316	ML	IEC 60092 series	
<b>MLT24SS5</b>			
SS316	ML	IEC 60092 series	
<b>MLT8SS10</b>			
SS316	ML	IEC 60092 series	
<b>MLT8SS5</b>			
SS316	ML	IEC 60092 series	
<b>MP3M3</b>			
PA66	NA	NF EN 45545-2	
<b>MP4M3</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64963
<b>MSMP5/10</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>MSMP6/6</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>MST200S</b>			
SS304	ML	IEC 62275:2006, IEC 62275	
<b>MST360M</b>			
SS304	ML	IEC 62275	
<b>MST360S</b>			
SS304	ML	IEC 62275:2006, IEC 62275	
<b>MST500M</b>			
SS304	ML	IEC 62275	
<b>MST500S</b>			
SS304	ML	IEC 62275:2006, IEC 62275	
<b>MST700M</b>			
SS304	ML	IEC 62275	
<b>MST700S</b>			
SS304	ML	IEC 62275:2006, IEC 62275	
<b>NY3256</b>			
PA66	NA	DIN EN 45545-2	
<b>PE180</b>			
PA66HS	BK	IEC 60092 series	
PA66HSW			
<b>PE400</b>			
PA66	BU	IEC 60092 series	
	GN		
	RD		
	YE		
<b>PE530</b>			
PA66HSW	BK	IEC 60092 series	
<b>PMB3</b>			
PA666V0	BK	EN 45545-2	



## Standards for HellermannTyton Cable Ties and Fixings

Material	Colour	Specifications	UL-File Number
<b>PT220</b>			
PEEK	BGE	DIN EN 62275:2016-01, EN 62275:2009, IEC 62275	
<b>PT2A</b>			
PEEK	BGE	DIN EN 62275:2010-07, EN 62275:2009	
<b>Q120R</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
	NA		
<b>Q18R</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
	NA		
<b>Q30R</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
	NA		
<b>Q50L</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
	NA		
<b>QM20</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E65344
<b>RCD-CT-INSERT</b>			
PA666V0	BK	EN 45545-2	
<b>REL100</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/ CSA-C22.2 no. 18.5, CAN/ CSA-C22.2 no. 62275	E64963
	NA		
<b>REL140</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/ CSA-C22.2 no. 18.5, CAN/ CSA-C22.2 no. 62275	E64963
	NA		
<b>REL180</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/ CSA-C22.2 no. 18.5, CAN/ CSA-C22.2 no. 62275	E64963
<b>REL250</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/ CSA-C22.2 no. 18.5, CAN/ CSA-C22.2 no. 62275	E64963
	NA		
<b>RELK2I</b>			
PA66	BK	IEC 60092 series	
	NA		
<b>RELK2L</b>			
PA66	BK	IEC 60092 series	E64963
	NA		

Material	Colour	Specifications	UL-File Number
<b>RELK2M</b>			
PA66	BK	IEC 60092 series	E64963
	NA		
<b>RELK2R</b>			
PA66	NA	IEC 60092 series	E64963
<b>RLT120</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/ CSA-C22.2 no. 18.5, CAN/ CSA-C22.2 no. 62275, IEC 60092 series, IEC 62275:2006	E64963
	NA		
<b>RLT150</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/ CSA-C22.2 no. 18.5, CAN/ CSA-C22.2 no. 62275, IEC 60092 series	E64963
	NA		
PA66HS		IEC 60092 series	
PA66W	BK	IEC 62275:2006	
<b>Robusto (LPH942)</b>			
PA11	BK	IEC 62275	
<b>Robusto (LPH962)</b>			
PA11	BK	IEC 62275	
<b>Robusto (LPH992)</b>			
PA11	BK	IEC 62275	
<b>RT250M</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, IEC 60092 series	E64139
	NA		
PA66W	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	
<b>RT250XL</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		
<b>T120I</b>			
PA66	BK	IEC 60092 series, IEC 62275:2006	
	NA		
PA66HIR(S)	BK	IEC 60092 series	
PA66W		IEC 62275:2006	

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## Standards for HellermannTyton Cable Ties and Fixings

Material	Colour	Specifications	UL-File Number
<b>T120L</b>			
PA66	BK	IEC 60092 series	
	NA	IEC 60092 series, IEC 62275:2006	
PA66HIR(S)	BK	IEC 60092 series	
PA66HS	NA		
PA66W	BK	IEC 60092 series, IEC 62275:2006	
<b>T120M</b>			
PA66	BK	IEC 60092 series	
	NA		
PA66HS	BK	CAN/CSA-C22.2 no. 62275, IEC 60092 series	E64963
<b>T120MR</b>			
PA66	BK	ANSI/UL 62275	E64139
	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	
<b>T120R</b>			
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E193818
<b>T120R(E)</b>			
PA46	NA	IEC 60092 series	
PA66	BK	IEC 60092 series, IEC 62275:2006	
	GN	IEC 60092 series	
	NA	IEC 60092 series, IEC 62275:2006	
	RD	IEC 60092 series, IEC 62275:2006	
PA66HIR(S)	BK	IEC 60092 series	E64963
PA66HS	NA	CAN/CSA-C22.2 no. 62275, IEC 60092 series	
PA66V0	WH	DIN EN 45545-2, IEC 60092 series	
PA66W	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, IEC 60092 series, IEC 62275:2006	E64963
<b>T120ROS</b>			
PA66HS	BK	NF EN 45545-2	
PA66V0	WH	DIN EN 45545-2	
PA66W	BK	EN 45545-2	
<b>T120S</b>			
PA66	NA	IEC 60092 series	E64963
PA66HS	BK	CAN/CSA-C22.2 no. 62275, IEC 60092 series	
PA66W		IEC 62275:2006	
<b>T120XM</b>			
PA66	BK	IEC 60092 series	
	NA		
PA66HS	BK		
	NA		

Material	Colour	Specifications	UL-File Number
<b>T150L</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		
PA66HS	BK		
<b>T150M</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		
PA66HS	BK		
<b>T150R(H)</b>			
PA66HS	BK	VG U48/04101	
	NA	VG 95387 Part 4 Edition: 2008-12, VG U48/04101	
PA66W	BK	IEC 62275:2006	
<b>T150XL</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		
PA66W	BK		
<b>T150XLL</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
PA66W			
<b>T181</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, EN 62275	E85319
	NA	ANSI/UL 1565, ANSI/UL 62275, EN 62275, IEC 62275:2006	
PA66HS	BK	ANSI/UL 1565, ANSI/UL 62275, EN 62275	
	NA	ANSI/UL 1565, ANSI/UL 62275, EN 62275, IEC 62275:2006	
PA66W	BK	ANSI/UL 1565, ANSI/UL 62275, EN 62275, IEC 62275:2006	
<b>T18L</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/CSA-C22.2 no. 18.5, CAN/CSA-C22.2 no. 62275	E64963
	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/CSA-C22.2 no. 18.5, CAN/CSA-C22.2 no. 62275, IEC 62275:2006	
PA66HS	BK	CAN/CSA-C22.2 no. 62275, IEC 60092 series	
	NA	BV 03856/H0 BV, CAN/CSA-C22.2 no. 62275	
PA66V0	WH	DIN EN 45545-2, IEC 60092 series	
PA66W	BK	IEC 62275:2006	
<b>T18MR</b>			
PA66	BK	CAN/CSA-C22.2 no. 62275	E64963
	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/CSA-C22.2 no. 18.5, CAN/CSA-C22.2 no. 62275	





## Standards for HellermannTyton Cable Ties and Fixings

Material	Colour	Specifications	UL-File Number
<b>T18R</b>			
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275	E64962
PA11	BK	BV 03856/H0 BV, IEC 62275	
PA46	NA	ANSI/UL 1565, ANSI/UL 62275, EN 62275, IEC 62275:2006	E85319
PA66	BK		
	BU	CAN/CSA-C22.2 no. 62275, IEC 60092 series, IEC 62275:2006	E64963
	GN	BV 03856/H0 BV, IEC 62275:2006	
	NA	ANSI/UL 1565, ANSI/UL 62275, EN 62275, IEC 62275:2006	E85319
	RD	IEC 60092 series, IEC 62275:2006	
	YE		
PA66HS	BK	ANSI/UL 1565, ANSI/UL 62275, EN 62275, IEC 62275:2006	E85319
	NA	ANSI/UL 1565, ANSI/UL 62275, EN 62275, STD78750, VG 95387 Part 2 Edition: 2008-12, VG 95387 Part 4 Edition: 2008-12	
PA66V0	WH	DIN EN 45545-2, IEC 60092 series	
PA66W	BK	ANSI/UL 1565, ANSI/UL 62275, EN 62275, IEC 62275:2006	E85319
<b>T18ROS</b>			
PA66V0	WH	DIN EN 45545-2	
<b>T18S</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, EN 62275	E85319
<b>T250I</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>T250L</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>T250M</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		

Material	Colour	Specifications	UL-File Number
<b>T250R</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
PA66HIRSUJ	BK		
<b>T250X</b>			
PA66	BK	IEC 60092 series	
<b>T250XL</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>T25L</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, EN 62275	E85319
	NA		
<b>T25LL</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, EN 62275	E85319
PA66W	BK		
<b>T30L</b>			
PA66	NA	IEC 62275:2006	
PA66HS	BK	ANSI/UL 1565, ANSI/UL 62275, EN 62275	E85319
	NA	CAN/CSA-C22.2 no. 62275, IEC 60092 series	E64963
PA66W	BK	IEC 62275:2006	
<b>T30LL</b>			
PA66	NA	IEC 60092 series	-
PA66HS	BK		
	NA		
PA66W	BK	IEC 62275:2006	
<b>T30LOS</b>			
PA66V0	WH	DIN EN 45545-2	
<b>T30MR</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		
<b>T30R</b>			
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275	E64962
PA11	BK	BV 03856/H0 BV, IEC 62275	
PA66	BU	IEC 60092 series	
	GN		
	NA	BV 03856/H0 BV, IEC 62275:2006	
	RD	IEC 60092 series	
YE			
PA66HS	BK	CAN/CSA-C22.2 no. 62275, IEC 60092 series	E64963
	NA	ANSI/UL 1565, ANSI/UL 62275, EN 62275, STD78750, VG 95387 Part 2 Edition: 2008-12, VG 95387 Part 4 Edition: 2008-12	E85319
PA66V0	WH	DIN EN 45545-2, IEC 60092 series	
PA66W	BK	IEC 62275:2006	



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## Standards for HellermannTyton Cable Ties and Fixings

Material	Colour	Specifications	UL-File Number
<b>T30REC4A</b>			
PA66HS, PA66HIRHS	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/CSA-C22.2 no. 62275	
<b>T30RSF</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275	E64963
PA66HS	BK		E65344
<b>T40R</b>			
PA66	NA	BV 03856/H0 BV, EN 50149:1999, IEC 62275:2006	
PA66HS	BK	BV 03856/H0 BV, CAN/CSA-C22.2 no. 62275	E64963
	NA		
PA66W	BK	EN 50149:1999, IEC 62275:2006	
<b>T50I</b>			
PA11	BK	IEC 62275	
PA46	NA	IEC 60092 series	
PA66	BK	IEC 60092 series, IEC 62275:2006	
	NA		
PA66HIR(S)		IEC 60092 series	
PA66HS	BK	ANSI/UL 1565, ANSI/UL 62275, EN 62275, IEC 60092 series	E85319
	NA	CAN/CSA-C22.2 no. 62275, IEC 60092 series, VG 95387 Part 4 Edition: 2008-12	E64963
PA66V0	WH	DIN EN 45545-2, IEC 60092 series	
PA66W	BK	IEC 62275:2006	
<b>T50IDH</b>			
PA66HS	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
PA66W			
<b>T50L</b>			
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275	E64962
PA66	BK	IEC 60092 series, IEC 62275:2006	
	BU	IEC 60092 series	
	GN		
	NA	IEC 60092 series, IEC 62275:2006	
	RD	IEC 60092 series	
	YE		
PA66HIR(S)			
PA66HS	BK	BV 03856/H0 BV, CAN/CSA-C22.2 no. 62275, VG 95387 Part 4 Edition: 2008-12	E64963
	NA	CAN/CSA-C22.2 no. 62275, IEC 60092 series, IEC 62275:2006	
PA66V0	WH	ANSI/UL 62275, DIN EN 45545-2	
PA66W	BK	IEC 62275:2006	

Material	Colour	Specifications	UL-File Number
<b>T50LDH</b>			
PA66HS	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>T50LL</b>			
PA66	BK	IEC 60092 series, IEC 62275:2006	
PA66W		IEC 60092 series	
<b>T50M</b>			
PA66	BK	IEC 60092 series, IEC 62275:2006	
	NA		
PA66W	BK	IEC 62275:2006	
<b>T50ML</b>			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
<b>T50MOS</b>			
PA66V0	WH	DIN EN 45545-2	
PA66W	BK	EN 45545-2	
<b>T50MR</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/CSA-C22.2 no. 18.5, CAN/CSA-C22.2 no. 62275	E64963
	NA		
PA66W	BK	VG 95387 Part 2 Edition: 2008-12	
<b>T50R</b>			
E/TFE	BU	ANSI/UL 1565, ANSI/UL 62275	E64962
PA11	BK	IEC 60092 series, IEC 62275	
PA46	NA	ANSI/UL 1565, ANSI/UL 62275, EN 62275	E85319
		IEC 60092 series, IEC 62275:2006	
PA66	RD	IEC 60092 series	
	YE		
PA66HIR(S)			
PA66HS	BK	CAN/CSA-C22.2 no. 62275, IEC 60092 series	E64963
PA66V0	WH	DIN EN 45545-2, IEC 60092 series	
PA66W	BK	IEC 62275:2006	
<b>T50RDH</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/CSA-C22.2 no. 18.5, CAN/CSA-C22.2 no. 62275	E64963
	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	
PA66HS	BK	CAN/CSA-C22.2 no. 62275	
<b>T50ROS</b>			
PA66W	BK	EN 45545-2	
<b>T50RSF(E)</b>			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	NA		E64963



## Standards for HellermannTyton Cable Ties and Fixings

Material	Colour	Specifications	UL-File Number
<b>T50S</b>			
PA11	BK	IEC 60092 series, IEC 62275	
PA66	NA	IEC 60092 series, IEC 62275:2006	
PA66HS	BK	CAN/CSA-C22.2 no. 62275, IEC 60092 series	E64963
	NA		
PA66W	BK	IEC 62275:2006	
<b>T80L</b>			
PA66HS	BK	VG 95387 Part 4 Edition: 2008-12	
	NA	STD78750, VG 95387 Part 4 Edition: 2008-12	
<b>T80R</b>			
PA66HS	NA	STD78750, VG 95387 Part 2 Edition: 2008-12, VG 95387 Part 4 Edition: 2008-12	

Material	Colour	Specifications	UL-File Number
<b>X120R</b>			
PA66HIRHS	BK	IEC 62275	
PA66W			
<b>X250I</b>			
PA66HIRHS	BK	IEC 62275	
<b>X250R</b>			
PA66HIRHS	BK	IEC 62275	E64963
PA66W		ANSI/UL 62275, CAN/CSA-C22.2 no. 62275	
<b>X80I</b>			
PA66HIRHS	BK	IEC 62275	
<b>X80L</b>			
PA66HIRHS	BK	IEC 62275	
<b>X80R</b>			
PA66HIRHS	BK	IEC 62275	



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### Standards for HellermannTyton Cable Ties and Fixings according to VG norm 95387

Designation as per VG-Norm	Type	Country of Origin
VG 95387 T04 A 201 L	<b>T18R</b>	SG
VG 95387 T04 A 202 L	<b>T80R</b>	
VG 95387 T04 A 203 L	<b>T50I</b>	GB
VG 95387 T04 A 204 L	<b>T150R(H)</b>	SG
VG 95387 T04 A 205 L	<b>T80L</b>	
VG 95387 T04 A 208 L	<b>T30R</b>	
VG 95387 T04 B 004 B	<b>T50MR</b>	GB

### Standards for HellermannTyton Heatshrinkable Tubing

Type	Specifications
<b>HA40</b>	ASTM 2671/C, DIN EN ISO 8580
<b>HFT-A</b>	ANSI/UL 224, CLASS 903201, CSA-C22.2 No.198.1-99, UL 224, VG 95343-5:2006-06, VG 95343-5:2016-10
<b>HIS-3</b>	ANSI/UL 224, C22.2 no. 198.1-06
<b>HIS-3 BAG</b>	ANSI/UL 224, CSA-C22.2 No.198.1
<b>HIS-A</b>	ANSI/UL 224, C22.2 no. 198.1-06, CSA, CSA-C22.1, CSA-C22.2 No.198.1
<b>HIS-PACK</b>	ANSI/UL 224, CSA-C22.1, CSA-C22.2 No.198.1, UL 224
<b>LVR</b>	ANSI/UL 224
<b>MA40</b>	ASTM 2671/C, DIN EN ISO 8580
<b>SE28</b>	VG 95343-5:2016-10
<b>TA32</b>	ANSI/UL 224, C22.2 no. 198.1-99
<b>TA37</b>	conforms to BS6853, conforms to LUL E1042:A6, DIN EN 45545-2, DIN EN ISO 4892-2, DIN EN ISO 8580, IEC 60068-2-5:2018, Test Sa2 (Solar radiation test)
<b>TA42</b>	ANSI/UL 224
<b>TCN20</b>	ANSI/UL 224, C22.2 no. 198.1-06, CSA, UL 224 125 °C 600V VW-1
<b>TCN20 overexpanded</b>	C22.2 no. 198.1-06, CSA-C22.1, DIN EN 60068-1/03.95, IEC 60068-1/88 & 92, VW 80000/2009-10
<b>TF21</b>	ANSI/UL 224, C22.2 no. 198.1-99, JAR/FAR 25.853
<b>TF24</b>	VG 95343-5:2016-10
<b>TF31</b>	ANSI/UL 224, C22.2 no. 198.1-99, CSA-C22.2 No.198.1-99
<b>TK20</b>	ANSI/UL 224, UL 224 150 °C 600V VW-1, VG 95343-5:2016-10
<b>TR27</b>	DIN EN 45545-2
<b>TREDUX</b>	ANSI/UL 224, C22.2 no. 198.1-06
<b>Viton®-E</b>	LEA, VG 95343-5:2016-10

Specifications apply to limited article numbers. Please contact our sales desk for further information.



### Standards for HellermannTyton Heat Shrinkable Moulded Shapes

Type	Specifications
1100 series 90 degree with Rib - VG	DAN341, VG 95343-6:2009-12
1100 series 90 high ratio	VG 95343-6:2009-12
1100 series 90 low profile with Rib	
1200 series T offset - VG	VG 95343-8:2016-03
1200 series T - VG	
1300 series 45 angle (and 30) T - VG	JN1000T, VG 95343-8:2016-03
130 series Long Outlet with Rib	VG 95343-6:2009-12
150 series Bottle with Rib - VG	
170 series Bottle with Rib	
190 series Bottle with external Ribs	JN1000T, VG 95343-8:2016-03
200 series 2-way Outlet - VG	
300 series 3-way Outlet - VG	VG 95343-8:2016-03
400 series 4-way Outlet - VG	
Epoxy adhesive	VG 95343-15:2019-08

Specifications apply to limited article numbers. Please contact our sales desk for further information.

### Standards for HellermannTyton Non Shrinkable Tubing

Type	Specifications
Helsyn H PLC	BS-4G-198 Part 1 Type 1
Helsyn H Reel	
Helsyn TH PLC	
Helsyn TH Reel	

Specifications apply to limited article numbers. Please contact our sales desk for further information.



### Standards for HellermannTyton Heat Shrinkable Tubing and Heat Shrinkable Moulded Shapes according to VG Norm 95343

Designation as per VG-Norm	Type
VG 95343 T05 A 001 A	<b>HFT-A-1.2/0.6</b>
VG 95343 T05 A 001 C	
VG 95343 T05 A 001 E	
VG 95343 T05 A 001 G	
VG 95343 T05 A 001 L	
VG 95343 T05 A 002 A	<b>HFT-A-1.6/0.8</b>
VG 95343 T05 A 002 C	
VG 95343 T05 A 002 E	
VG 95343 T05 A 002 G	
VG 95343 T05 A 002 L	
VG 95343 T05 A 003 A	<b>HFT-A-2.4/1.2</b>
VG 95343 T05 A 003 C	
VG 95343 T05 A 003 E	
VG 95343 T05 A 003 G	
VG 95343 T05 A 003 L	
VG 95343 T05 A 004 A	<b>HFT-A-3.2/1.6</b>
VG 95343 T05 A 004 C	
VG 95343 T05 A 004 E	
VG 95343 T05 A 004 G	
VG 95343 T05 A 004 L	
VG 95343 T05 A 004 N	<b>HFT-A-4.8/2.4</b>
VG 95343 T05 A 005 A	
VG 95343 T05 A 005 C	
VG 95343 T05 A 005 E	
VG 95343 T05 A 005 G	
VG 95343 T05 A 005 L	<b>HFT-A-6.4/3.2</b>
VG 95343 T05 A 005 N	
VG 95343 T05 A 006 A	
VG 95343 T05 A 006 C	
VG 95343 T05 A 006 E	
VG 95343 T05 A 006 G	<b>HFT-A-9.5/4.8</b>
VG 95343 T05 A 006 L	
VG 95343 T05 A 006 N	
VG 95343 T05 A 007 A	
VG 95343 T05 A 007 C	
VG 95343 T05 A 007 E	<b>HFT-A-12.7/6.4</b>
VG 95343 T05 A 007 G	
VG 95343 T05 A 007 L	
VG 95343 T05 A 007 N	
VG 95343 T05 A 008 A	
VG 95343 T05 A 008 C	
VG 95343 T05 A 008 E	
VG 95343 T05 A 008 G	
VG 95343 T05 A 008 L	
VG 95343 T05 A 008 N	

Designation as per VG-Norm	Type
VG 95343 T05 A 009 A	<b>HFT-A-19.0/9.5</b>
VG 95343 T05 A 009 C	
VG 95343 T05 A 009 E	
VG 95343 T05 A 009 G	
VG 95343 T05 A 009 L	
VG 95343 T05 A 009 N	<b>HFT-A-25.4/12.7</b>
VG 95343 T05 A 010 A	
VG 95343 T05 A 010 C	
VG 95343 T05 A 010 E	
VG 95343 T05 A 010 G	
VG 95343 T05 A 010 L	<b>HFT-A-38.0/19.0</b>
VG 95343 T05 A 010 N	
VG 95343 T05 A 011 A	
VG 95343 T05 A 011 C	
VG 95343 T05 A 011 E	
VG 95343 T05 A 011 G	<b>HFT-A-50.8/25.4</b>
VG 95343 T05 A 011 L	
VG 95343 T05 A 011 N	
VG 95343 T05 A 012 A	
VG 95343 T05 A 012 C	
VG 95343 T05 A 012 E	<b>HFT-A-76.0/38.0</b>
VG 95343 T05 A 012 G	
VG 95343 T05 A 012 L	
VG 95343 T05 A 013 A	
VG 95343 T05 A 013 C	
VG 95343 T05 A 013 E	<b>HFT-A-101.6/50.8</b>
VG 95343 T05 A 013 G	
VG 95343 T05 A 013 L	
VG 95343 T05 A 014 A	
VG 95343 T05 A 014 C	
VG 95343 T05 A 014 E	<b>TF24-1.2/0.6</b>
VG 95343 T05 A 014 G	
VG 95343 T05 A 014 L	
VG 95343 T05 B 001 M	<b>TF24-1.6/0.8</b>
VG 95343 T05 B 002 M	<b>TF24-2.4/1.2</b>
VG 95343 T05 B 003 M	

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### Standards for HellermannTyton Heat Shrinkable Tubing and Heat Shrinkable Moulded Shapes according to VG Norm 95343

Designation as per VG-Norm	Type
VG 95343 T05 B 004 M	<b>TF24-3.2/1.6</b>
VG 95343 T05 B 005 M	<b>TF24-4.8/2.4</b>
VG 95343 T05 B 006 M	<b>TF24-6.4/3.2</b>
VG 95343 T05 B 007 M	<b>TF24-9.5/4.8</b>
VG 95343 T05 B 008 M	<b>TF24-12.7/6.4</b>
VG 95343 T05 B 009 M	<b>TF24-19.1/9.5</b>
VG 95343 T05 B 010 M	<b>TF24-25.4/12.7</b>
VG 95343 T05 B 011 M	<b>TF24-38.1/19.1</b>
VG 95343 T05 B 012 M	<b>TF24-50.8/25.4</b>
VG 95343 T05 B 013 M	<b>TF24-76.2/38.1</b>
VG 95343 T05 B 014 M	<b>TF24-101.6/50.8</b>
VG 95343 T05 D 001 A	<b>SE28 3.2/1.6</b>
VG 95343 T05 D 002 A	<b>SE28 4.8/2.4</b>
VG 95343 T05 D 003 A	<b>SE28 6.4/3.2</b>
VG 95343 T05 D 004 A	<b>SE28 9.5/4.8</b>
VG 95343 T05 D 005 A	<b>SE28 12.7/6.4</b>
VG 95343 T05 D 006 A	<b>SE28 19.0/9.5</b>
VG 95343 T05 D 007 A	<b>SE28 25.4/12.7</b>
VG 95343 T05 D 008 A	<b>SE28 38.0/19.0</b>
VG 95343 T05 D 009 A	<b>SE28 51.0/25.4</b>
VG 95343 T05 D 010 A	<b>SE28 76.0/38.0</b>
VG 95343 T05 D 011 A	<b>SE28 101.2/51.0</b>
VG 95343 T05 E 001 A	<b>VITON<sup>®</sup>-E-3.2/1.6</b>
VG 95343 T05 E 002 A	<b>VITON<sup>®</sup>-E-4.8/2.4</b>
VG 95343 T05 E 003 A	<b>VITON<sup>®</sup>-E-6.4/3.2</b>
VG 95343 T05 E 004 A	<b>VITON<sup>®</sup>-E-9.5/4.8</b>
VG 95343 T05 E 005 A	<b>VITON<sup>®</sup>-E-12.7/6.4</b>
VG 95343 T05 E 006 A	<b>VITON<sup>®</sup>-E-19.0/9.5</b>
VG 95343 T05 E 007 A	<b>VITON<sup>®</sup>-E-25.4/12.7</b>
VG 95343 T05 E 008 A	<b>VITON<sup>®</sup>-E-38.0/19.0</b>
VG 95343 T05 E 009 A	<b>VITON<sup>®</sup>-E-50.8/25.4</b>
VG 95343 T05 F 001 M	<b>TK20-1.2/0.6</b>
VG 95343 T05 F 002 M	<b>TK20-1.6/0.8</b>
VG 95343 T05 F 003 M	<b>TK20-2.4/1.2</b>
VG 95343 T05 F 004 M	<b>TK20-3.2/1.6</b>
VG 95343 T05 F 005 M	<b>TK20-4.8/2.4</b>
VG 95343 T05 F 006 M	<b>TK20-6.4/3.2</b>
VG 95343 T05 F 007 M	<b>TK20-9.5/4.8</b>
VG 95343 T05 F 008 M	<b>TK20-12.7/6.4</b>
VG 95343 T05 F 009 M	<b>TK20-19.1/9.5</b>
VG 95343 T05 F 010 M	<b>TK20-25.4/12.7</b>
VG 95343 T06 A 001 A	<b>152-41-G</b>
VG 95343 T06 A 002 A	<b>153-41-G</b>
VG 95343 T06 A 003 A	<b>154-41-G</b>
VG 95343 T06 A 005 A	<b>156-41-G</b>

Designation as per VG-Norm	Type
VG 95343 T06 A 006 A	<b>157-41-G</b>
VG 95343 T06 A 007 A	<b>158-41-G</b>
VG 95343 T06 A 008 A	<b>159-41-G</b>
VG 95343 T06 A 009 A	<b>160-41-G</b>
VG 95343 T06 A 010 A	<b>199-4-G</b>
VG 95343 T06 B 001 A	<b>152-42-G</b>
VG 95343 T06 B 002 A	<b>153-42-G</b>
VG 95343 T06 B 003 A	<b>154-42-G</b>
VG 95343 T06 B 004 A	<b>155-42-G</b>
VG 95343 T06 B 005 A	<b>156-42-G</b>
VG 95343 T06 B 006 A	<b>157-42-G</b>
VG 95343 T06 B 007 A	<b>158-42-G</b>
VG 95343 T06 B 008 A	<b>159-42-G</b>
VG 95343 T06 B 009 A	<b>160-42-G</b>
VG 95343 T06 B 010 A	<b>1306-1-G</b>
VG 95343 T06 C 001 A	<b>157-43-G</b>
VG 95343 T06 C 002 A	<b>158-43-G</b>
VG 95343 T06 C 004 A	<b>160-43-G</b>
VG 95343 T06 D 001 A	<b>129-1-G</b>
VG 95343 T06 D 002 A	<b>130-1-G</b>
VG 95343 T06 D 003 A	<b>131-1-G</b>
VG 95343 T06 D 004 A	<b>132-1-G</b>
VG 95343 T06 D 005 A	<b>133-1-G</b>
VG 95343 T06 D 006 A	<b>134-1-G</b>
VG 95343 T06 D 007 A	<b>135-1-G</b>
VG 95343 T06 D 008 A	<b>136-1-G</b>
VG 95343 T06 D 009 A	<b>138-1-G</b>
VG 95343 T06 D 011 A	<b>176-1-G</b>
VG 95343 T06 D 012 A	<b>177-1-G</b>
VG 95343 T06 D 013 A	<b>178-1-G</b>
VG 95343 T06 D 014 A	<b>179-1-G</b>
VG 95343 T06 E 001 A	<b>1152-4-G</b>
VG 95343 T06 E 002 A	<b>1154-4-G</b>
VG 95343 T06 E 003 A	<b>1155-4-G</b>
VG 95343 T06 E 004 A	<b>1156-4-G</b>
VG 95343 T06 E 005 A	<b>1157-4-G</b>
VG 95343 T06 E 006 A	<b>1158-4-G</b>
VG 95343 T06 E 007 A	<b>1159-4-G</b>
VG 95343 T06 E 008 A	<b>1160-4-G</b>
VG 95343 T06 F 001 A	<b>1121-1-G</b>
VG 95343 T06 F 002 A	<b>1122-1-G</b>
VG 95343 T06 F 003 A	<b>1123-1-G</b>
VG 95343 T06 F 004 A	<b>1124-1-G</b>
VG 95343 T06 F 005 A	<b>1125-1-G</b>
VG 95343 T06 F 006 A	<b>1126-1-G</b>



### Standards for HellermannTyton Heat Shrinkable Tubing and Heat Shrinkable Moulded Shapes according to VG Norm 95343

Designation as per VG-Norm	Type
VG 95343 T06 F 007 A	<b>1127-1-G</b>
VG 95343 T06 F 008 A	<b>1128-1-G</b>
VG 95343 T06 F 009 A	<b>1129-1-G</b>
VG 95343 T06 F 011 A	<b>1133-1-G</b>
VG 95343 T06 F 012 A	<b>1134-1-G</b>
VG 95343 T06 F 013 A	<b>1135-1-G</b>
VG 95343 T06 F 014 A	<b>1136-1-G</b>
VG 95343 T08 A 001 A	<b>1203-1-G</b>
VG 95343 T08 A 002 A	<b>1209-1-G</b>
VG 95343 T08 A 007 A	<b>1201-1-G</b>
VG 95343 T08 A 009 A	<b>1206-1-G</b>
VG 95343 T08 A 010 A	<b>1202-1-G</b>
VG 95343 T08 A 011 A	<b>1207-1-G</b>
VG 95343 T08 A 016 A	<b>1204-1-G</b>
VG 95343 T08 A 017 A	<b>1216-1-G</b>
VG 95343 T08 B 001 A	<b>1301-1-G</b>
VG 95343 T08 B 002 A	<b>1303-1-G</b>
VG 95343 T08 B 003 A	<b>1311-1-G</b>
VG 95343 T08 B 004 A	<b>1302-1-G</b>
VG 95343 T08 C 001 A	<b>206-1-G</b>
VG 95343 T08 C 002 A	<b>203-1-G</b>
VG 95343 T08 C 003 A	<b>204-1-G</b>
VG 95343 T08 C 005 A	<b>212-1-G</b>
VG 95343 T08 D 001 A	<b>306-1-G</b>

Designation as per VG-Norm	Type
VG 95343 T08 D 002 A	<b>304-1-G</b>
VG 95343 T08 D 003 A	<b>310-1-G</b>
VG 95343 T08 D 004 A	<b>311-1-G</b>
VG 95343 T08 E 002 A	<b>411-1-G</b>
VG 95343 T08 E 004 A	<b>403-1-G</b>
VG 95343 T08 E 005 A	<b>413-1-G</b>
VG 95343 T15 A001 A	<b>V9500 Epoxy Kit</b>
VG 95343 T15 A 002 B	
VG 95343 T15 D 002 B	<b>V9500 Epoxy Cartridge</b>
VG 95343 T15 DA	<b>V9500 Applicator Gun</b>
VG 95343 T15 MA	<b>V9500 Applicator Nozzle</b>
VG 95343 T18 C 003 A	<b>159-43-G</b>

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## Standards for HellermannTyton Cable Protection

Type	Specifications	UL File Number
HG-SW Standard Weight PA6	ANSI/UL 1696, BS EN 61386-23, CSA-C22.2 No.227.3, IEC 61386	E325250
HG-LW Light Weight PA6	ANSI/UL 1695, ANSI/UL 1696, CSA-C22.2 No.227.3, IEC 61386	
HG-FR Flame Retardant PA6	ANSI/UL 1696, BS EN 45545-2, BS EN 61386-23, EN 45545-2	
HG-S Straight, IP66	ANSI/UL 1695, CSA-C22.2 No.227.3	
HG-90 90° Elbow, IP66	ANSI/UL 1696, CSA-C22.2 No.227.3	
LTS Galv. Steel Conduit, PVC Cover	BS EN 61386-23	
PSR-S Straight PA6 Fitting, Ext. Thread	ANSI/UL 1696, CSA-C22.2 No.227.3	E325250
PSR Smooth Bore PVC Spiral Reinforced Conduit		
PSR-90 90° Elbow PA6 Fitting, Ext. Thread		
Helawrap HWPP 25 m + 20 m	ECE R 118-03 Abschnitt 6, ECE R-118-03 Abschnitt 6 / Annex 6	
Helawrap HWPA6-V0	EN 45545-2, UL 1441	E341700
SBPAV0	EN 45545-2, UNI EN 45545-2	
Helawrap HWPP 2 m	ECE R 118-03 Abschnitt 6, ECE R-118-03 Abschnitt 6 / Annex 6	
Braided Sleeving Helagaine HEGP	ECE R-118-03 Abschnitt 6 / Annex 6, ECE R-118-03 Abschnitt 8 / Annex 8, EN 45545-2	
Braided Sleeving Helagaine HEGPX	ANSI/NFPA 70, EN 45545-2	E197993
Braided Sleeving Helagaine HEGPV0X	ANSI/NFPA 70, UL 1441	
Braided Sleeving Helagaine HEGPA66	ECE R-118-03 Abschnitt 6 / Annex 6, ECE R-118-03 Abschnitt 8 / Annex 8, EN 45545-2	
Braided Sleeving HEGMAN	DIN EN 6049	
Braided Sleeving HEGMANWO		
Twist-In Standard	ANSI/NFPA 70, UL 1441	E197993
Twist-In Distripack		
Self-Closing Sleeving Helagaine Twist-In-FR	ANSI/NFPA 70, ECE R-118-03 Abschnitt 8 / Annex 8, EN 45545-2	
Braided Sleeving Helagaine HEGEMIP-VG	VG 96936-10	
Grommet Strip Flexiform G51N	NASM21266	
HelaDuct HTWD-PW Wide Finger PVC Wiring Ducts	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E357929
HelaDuct HTWD-PN Narrow Finger PVC Wiring ducts		
HelaDuct HTWD-PD DIN PVC Wiring Ducts	ANSI/UL 1565, ANSI/UL 746B, CAN/CSA-C22.2 no. 18.5	
HelaDuct HTWD-HF Halogen-Free Wiring Ducts (metric sizes)	ANSI/UL 1565, ANSI/UL 62275, CAN/CSA-C22.2 no. 18.5, CAN/CSA-C22.2 no. 62275, DIN EN 45545-2	

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## Standards for HellermannTyton Wire Connectors and Electrical Tapes

Product Family	Type	Specifications
HelaCon Lux	HECL-1/1, HECL-2/1	CEBEC, cULus, DIN EN 60998-2-2:2005-03, EN 60998-2-2:1993, ENEC, FIMKO
	HECL-2/1-Blister	CEBEC, cULus, EN 60998-2-2:1993, ENEC, FIMKO, VDE
HelaCon Plus Mini	HCPM-2	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, DIN EN 60998-2-2:2005-03, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC, NF EN 60695-2-10, NF EN 60695-2-11
	HCPM-2-Blister	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, DIN EN 60998-2-2:2005-03, EN 60998-2-2:2004, ENEC, NF EN 60695-2-10, NF EN 60695-2-11
	HCPM-3	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, DIN EN 60998-2-2:2005-03, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC, NF EN 60695-2-10, NF EN 60695-2-11
	HCPM-3-Blister	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, DIN EN 60998-2-2:2005-03, EN 60998-2-2:2004, ENEC, NF EN 60695-2-10, NF EN 60695-2-11
	HCPM-4	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, DIN EN 60998-2-2:2005-03, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC, NF EN 60695-2-10, NF EN 60695-2-11
	HCPM-4-Blister	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, DIN EN 60998-2-2:2005-03, EN 60998-2-2:2004, ENEC, NF EN 60695-2-10, NF EN 60695-2-11
	HCPM-5	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, DIN EN 60998-2-2:2005-03, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC, NF EN 60695-2-10, NF EN 60695-2-11
	HCPM-5-Blister	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, DIN EN 60998-2-2:2005-03, EN 60998-2-2:2004, ENEC, NF EN 60695-2-10, NF EN 60695-2-11
	HCPM-6	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, DIN EN 60998-2-2:2005-03, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC, NF EN 60695-2-10, NF EN 60695-2-11
	HCPM-8	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, DIN EN 60998-2-2:2005-03, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC, NF EN 60695-2-10, NF EN 60695-2-11
HCPM Variobox 350	2006/65/EC, DIN EN 60998-2-2:2005-03, EN 60998-2-2:2004, ENEC, NF EN 60695-2-10, NF EN 60695-2-11	
HelaCon Plus Releasable	HCRN-2	EN 60998-2-2:2004, EN 60998-2-2:201
	HCRN-2-Blister	
	HCRN-3, HCRN-3-Blister	EN 60998-1:2004, EN 60998-2-2:2004
	HCRN-5, HCRN-5-Blister	
HelaTape Allround 1500	HTAPE-ALLROUND1500	VDE
HelaTape Flex 1000+	HTAPE-FLEX1000+ 19x20	
	HTAPE-FLEX1000+ 19x20 PACK	
	HTAPE-FLEX1000+ 19x33	IEC 60454-3-1-7/F-PVCP/90, UL 510
	HTAPE-FLEX1000+ 19x6	
	HTAPE-FLEX1000+ 50x33	
	HTAPE-FLEX1000+ C 19x20	
HelaTape Flex 15	HTAPE-FLEX15-15x10	IEC 60454-3-1-6/F-PVCP/90
	HTAPE-FLEX15-15x25	
	HTAPE-FLEX15-19x20	IEC 60454-3-1-7/F-PVCP/90
	HTAPE-FLEX15-19x25	
	HTAPE-FLEX15-25x25	
HelaTape Flex 20	HTAPE-FLEX20-19x20	VDE
HelaTape Flex 2000+	HTAPE-FLEX2000+19x20	
	HTAPE-FLEX2000+38x20	
HelaTape Flex 25	HTAPE-FLEX25-19x33	UL 510
	HTAPE-FLEX25-38x33	
HelaTape Power 600	HTAPE-POWER600-19x6.7	
	HTAPE-POWER600-38x6.7	
HelaTape Wrap 25	HTAPE-WRAP25-100x30	
	HTAPE-WRAP25-25x30	VDE
	HTAPE-WRAP25-50x30	



### Standards for HellermannTyton Identification Systems

Type	Specifications
<b>2:1 TLFD DS</b>	DIN EN 45545-2, DIN EN 50343:2014 Appendix H
<b>2:1 TLFX</b>	DIN EN 45545-2
<b>2:1 TLFX DS</b>	ASTM 1354, ASTM E 162, ASTM E 662, DIN EN 45545-2, NFPA130: 2017
<b>3:1 TCGT</b>	C22.2 no. 198.1-99
<b>3:1 TULT</b>	ANSI/UL 224, C22.2 no. 198.1-99, CSA
<b>3:1 TULT DS</b>	ANSI/UL 224, MIL-STD-202G Method 215K
<b>Helagrip, reel chevron cut</b>	BS-2782-540B, BS-6746C, IEC 757
<b>HGDC1-3, HGDC2-5, HGDC4-9</b>	
<b>HODS50, HODS85</b>	BS-2782-540B, BS-6746C, IEC 304, IEC 757
<b>IT Ties</b>	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAGE Code 53421, CAN/CSA-C22.2 no. 18.5, CAN/CSA-C22.2 no. 62275
<b>M-BOSS Compact</b>	2006/42/EG, EN 60204-1:2006, EN ISO 12100:2010
<b>M-BOSS Compact Organiser</b>	
<b>MCTRFID PA66MP blank cable ties RFID</b>	Article 41 of Directive 2014/34/EU, EN 50303:2000, EN 60079-0:2012, EN 60079-11:2012
<b>Ovalgrip, reel straight cut</b>	BS-2782-540B, BS-6746C, IEC 304, IEC 757
<b>Plain Labels - 1203</b>	CSA
<b>Plain Labels - 323</b>	FTM 6 (according to DIN EN ISO 4892-2)
<b>TAGLF</b>	ASTM 1354, ASTM E 162, ASTM E 662, DIN EN 45545-2, MIL-STD-202G Method 215K, SAE - AS81531
<b>TAGPU</b>	MIL-STD-202G Method 215K, SAE - AS81531
<b>Thermal Transfer Ribbons Adhesive Labels</b>	ANSI/UL 969
<b>TIPTAG HF</b>	DIN EN 45545-2, EN 45545-2
<b>TrakMark Assecories</b>	CEN
<b>TrakMark DS</b>	2004/108/EG, 2014/35/EU, ANSI/UL 60950-1, ANSI/UL 60950-21, ANSI/UL 60950-22, ANSI/UL 60950-23, EN 55022:2011-12, EN 55024:2011-09, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, FCC
<b>TT4030 Printer</b>	2011/65/EU, 2014/35/EU, CE 2014/35/EU, DIN EN 55032:2012-12, DIN EN 55032:2016-02, DIN EN 55032 rectification 1:2013-04, DIN EN 61000-6-2:2006-03, DIN EN 61000-6-2 rectification 1:2011-06, EN 61000-3-2, EN 61000-6-2, IEC 60950-1 (ed.2), IEC 60950-1 (ed.2), am1, IEC 60950-1 (ed.2), am <sup>2</sup>
<b>TT430/TT431_Accessories</b>	CEN
<b>TT431 Printer</b>	2014/35/EU, DIN EN 55024:2011-09, DIN EN 55024:2016-05, DIN EN 55032:2012-12, DIN EN 55032:2016-02, DIN EN 55032 rectification 1:2013-04, DIN EN 61000-6-2:2006-03, DIN EN 61000-6-2 rectification 1:2011-06, EN 55024:2011-09, EN 61000-6-2, FCC eCFR 47 FCC part 15 - subpart B, limit class A
<b>WIC Accessories</b>	EN 60062, IEC 304
<b>WIC Family</b>	

Specifications apply to limited article numbers. Please contact our sales desk for further information.

### Standards for HellermannTyton Application Tooling

Type	Specifications	UL-File Number
<b>ATS3080</b>	EN 60745-1	
<b>KR8PNSE</b>	EN ISO 11148-2:2011	
<b>MK3PNSP2</b>		
<b>T18RA3500</b>	ANSI/UL 62275	E65344
<b>T18RA50</b>		

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## Article-No. 102-00000 – 111-01665

Article-No.	Type	Page	Article-No.	Type	Page	Article-No.	Type	Page
102-00000	ATS3080	542	110-09110	MK9P w/ Upper air	556	111-00831	MCT50L	58
102-00040	Bench mount kit 3080	543	110-09111	SP MK9P replacement blade	556	111-00937	MCTRELK2M	77
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LK2A	111-60119	52	LVK-C-5x1.5-16	380-04014	258	MBT14UHFC	111-01512	85
LK2A	111-60136	52	LVK-C-5x1.5-6	380-04013	258	MBT14XH	111-95149	82
LK2A	111-60150	52	LVK-C-5x6-25	380-04015	258	MBT14XHFC	111-00299	85
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### 1. Interpretation

#### 1.1 In these Conditions:

„ACKNOWLEDGEMENT OF ORDER“ shall mean the document by which the Seller or its authorised representative accepts the Order. „BUYER“ shall mean the purchaser of the Goods from the Seller. „BUYER'S SPECIFICATION“ means any variation, modification or amendment to Seller's specification as requested by Buyer and agreed between the parties in accordance with clause 2.3 and/ or as identified in the Acknowledgement of Order. „CONDITIONS“ means the terms and conditions of sale set out herein and includes any special terms and conditions included in the Acknowledgement of Order. „CONTRACT“ shall mean the contract for the sale and purchase of the Goods made pursuant to these Conditions. „DELIVERY“ shall mean delivery of the Goods or any part of them in accordance with clause 6.1 of these Conditions. „DELIVERY DATE“ shall mean the date or period for Delivery set out in an Acknowledgement of Order or which is otherwise agreed by the Seller and the Buyer. „FORCE MAJEURE“ shall mean any circumstances beyond the reasonable control of the Seller. „GOODS“ shall mean the goods which the Seller has agreed to supply to the Buyer pursuant to these Conditions. „INFORMATION“ shall mean any and all IPR, technical or commercial data, know-how, show-how, formulae, processes, designs, photographs, drawings, specifications, details of customers and suppliers, pricing information, samples, prototypes and other sensitive business information and any other information of a confidential nature together with any experimental or test data and results produced by the Seller as a result of it carrying out necessary tests for the purposes of performing the Contract which either directly or indirectly is disclosed by or on behalf of the Seller to the Buyer or to any person on behalf of the Buyer orally, in writing, by physical embodiment, by data transmission or in any other way. „INTELLECTUAL PROPERTY RIGHTS“ („IPR“) shall mean all patents, trade marks, service marks, design rights (whether patentable, registrable or otherwise), applications for any of the foregoing copyright, know-how, trade or business names, rights in databases, topography rights and other similar rights or obligations whether registrable or not in any country (including, but not limited to the United Kingdom).

„LOSS“ shall mean all actions, claims, demands, losses (direct, indirect, consequential or otherwise), expenses, costs, actions and proceedings. „ORDER“ shall mean the Buyer's order for Goods. „SELLER“ shall mean HellermannTyton Ltd, a company registered in England and Wales under company number 05652018 and having its registered office at Griffin House, 135 High Street, Crawley, West Sussex, RH10 1DQ. „SPECIFICATION“ shall mean the description of the Goods set out in the Acknowledgement of Order pursuant to clause 3.4 including any variation, modification or amendment to specification as a consequence of Buyer's Specification and „Specification“ and „Buyer's Specification“ shall be construed accordingly.

**1.2** Any reference in these Conditions to any provision of a statute shall be construed as a reference to that provision as amended re-enacted or extended at the relevant time.

**1.3** The headings in these Conditions are for convenience only and shall not affect their interpretation.

**1.4** In these Conditions „Incoterms“ means the international rules for the interpretation of trade terms of the International Chamber of Commerce 2010 as amended or republished from time to time (Incoterms® 2010). Unless the Contract otherwise requires any terms or expression which is defined in or given a particular meaning by the provisions of Incoterms shall have the same meaning in these Conditions, but if there is any conflict between the provisions of Incoterms and these Conditions the latter shall prevail.

#### 2. Basis of Sale

**2.1** These Conditions together with the Seller's Acknowledgement of Order apply to all Contracts between the Seller and the Buyer and shall prevail and be effective notwithstanding any variations or additions whether contained or referred to in the Buyer's order, or other document submitted by the Buyer including without limitation any standard conditions of purchase of the Buyer, acceptance of quotation or in correspondence or elsewhere, or implied by trade, custom, practice or course of dealing, and shall supersede all other and any prior promises, representations or undertakings.

**2.2** Where the Buyer purchases Goods from the Seller which include electrical and electronic equipment (as defined by the Waste Electrical and Electronic Equipment Regulations 2006 as amended or re-enacted from time to time („WEEE“)), he does so on the understanding that he will, at his own expense, properly collect, treat, recover and dispose of it in an environmentally sound manner, or arrange for the proper collection, treatment, recovery and environmentally sound disposal of such electrical or electronic equipment in accordance with the requirements of WEEE. Further, the Buyer agrees that where the electrical and electronic equipment referred to above is intended to replace electrical or electronic equipment that was supplied to the Buyer prior to the 13 August 2005, it will be responsible for the environmentally sound collection, treatment, recovery and disposal of that electrical and electronic equipment being replaced and shall not ask the Seller to take it back in order to arrange the same.

**2.3** No variation to these Conditions shall be binding unless agreed in writing by an authorised representative of the Seller.

**2.4** The Seller's employees or agents are not authorised to make any representations or recommendations concerning the Goods unless confirmed by a duly authorised representative of the Seller in writing. In entering into the Contract the Buyer acknowledges that it does not rely on and waives any claim for breach of any such representations which are not so confirmed. For the avoidance of doubt, nothing herein contained shall be deemed to exclude the Seller's liability due to fraud or fraudulent misrepresentation.

**2.5** Any typographical clerical or other error or omission in any sales literature quotation price list Acknowledgement of Order invoice or other documentation or information issued by the Seller shall be subject to correction without any liability on the part of the Seller.

#### 3. Orders and Specifications

**3.1** Every acceptance by the Buyer of any quotation given by the Seller shall be deemed an offer by the Buyer to purchase Goods from the Seller and will not be deemed to be accepted by the Seller until a duly authorised representative of the Seller has provided an Acknowledgement of Order in relation to such offer by the Buyer.

**3.2** No Order submitted by the Buyer shall be deemed to be accepted by the Seller unless and until confirmed by an Acknowledgement of Order.

**3.3** The Buyer shall be responsible to the Seller for ensuring the accuracy of the terms of any Order (including any applicable Specification or Buyer's Specification) submitted by the Buyer and for giving the Seller any necessary information relating to the Goods within a sufficient time to enable the Seller to perform the Contract in accordance with its terms.

**3.4** The quantity quality and description of and any Specification for the Goods shall be those set out in the Seller's Acknowledgement of Order.

**3.5** If the Goods are to be manufactured by the Seller in accordance with the Buyer's Specification:

**3.5.1** the Buyer shall indemnify the Seller against all Loss suffered by the Seller in connection with any claim by a third party that the manufacture and/or supply of the Goods to such Buyer Specification or instructions infringes the rights of any third party; and

**3.5.2** the Buyer shall be responsible for supplying reliable and accurate information to the Seller (including, without limitation, drawings, plans and designs) to enable the Seller to manufacture the Goods to the Buyer's Specification. The Seller shall be entitled to assume that all information supplied by the Buyer is true, accurate, complete and fit for the purpose for which it is supplied and that the Seller can rely on the same. The Seller shall not be liable for any Loss or delay in Delivery of the Goods which directly or indirectly arises from the Buyer's failure to supply accurate information at all or on time.

**3.6** The Seller reserves the right to make any changes in the Specification of the Goods which are required to conform with any applicable safety or other statutory requirements and/or where such changes do not materially affect the quality or performance of the Goods. For the avoidance of doubt and subject to clause 10.1, the Seller provides no implied warranties in relation to Goods supplied to the Buyer's Specification.

**3.7** No Order which has been accepted by the Seller by an Acknowledgement of Order may be cancelled by the Buyer except with the agreement in writing of the Seller and on terms that the Buyer shall indemnify the Seller in full against all Loss incurred by the Seller as a result of cancellation.

#### 4. Price of the Goods

**4.1** The price shall be the price in the Acknowledgement of Order („Price“).

**4.2** The Seller reserves the right by giving notice to the Buyer at any time before Delivery to increase the Price to reflect any increase in the cost to the Seller which is due to any factor beyond the control of the Seller (such as without limitation any foreign exchange fluctuation, currency regulation alteration of duties significant increase in the costs of labour materials or other costs of manufacture), any change in Delivery Dates quantities or Specifications for the Goods which is requested by the Buyer or any delay caused by any instructions of the Buyer or failure of the Buyer to give the Seller adequate information or instructions.

**4.3** Except as otherwise stated in an Acknowledgement of Order all prices are given by the Seller for Delivery as defined in clause 6.1. Where the Seller agrees to deliver the Goods otherwise than as defined in clause 6.1 the Buyer shall be liable to pay the Seller's charges for transport packaging and insurance where requested.

**4.4** The price is exclusive of any applicable value added tax (which will be applied in accordance with the legislation in force at the tax point date) and which the Buyer shall be additionally liable to pay to the Seller.

#### 5. Terms of Payment

**5.1** Subject to any special terms agreed in an Acknowledgement of Order the Seller shall be entitled to invoice the Buyer for the Price on Delivery immediately the Goods have been despatched, when they are ready for despatch but are





prevented or delayed from being despatched due to Force Majeure or the day the Goods are put out ready for collection (whichever event occurs the earliest).

**5.2** The Buyer shall pay the Price without deduction within 30 days of the date of the Seller's invoice notwithstanding that Delivery may not have taken place and the property in the Goods has not passed to the Buyer. The time of payment of the Price shall be of the essence of the Contract. Receipts for payment will be issued only upon request.

**5.3** If the Buyer fails to make any payment in accordance with clause 5.2 then without prejudice to any other right or remedy available to the Seller the Seller shall be entitled to:-

**5.3.1** cancel the contract or suspend any Deliveries to the Buyer;

**5.3.2** appropriate any payment made by the Buyer to such of the Goods (or the goods supplied under any other contract between the Buyer and the Seller) as the Seller may think fit (notwithstanding any purported appropriation by the Buyer);

**5.3.3** charge the Buyer interest on the amount unpaid at the rate of 3 percent per annum above HSBC Bank base rate from time to time until payment in full is made (a part of a month being treated as a full month for the purpose of calculating interest); and

**5.3.4** demand payment of all outstanding balances from the Buyer whether due or not and/or cancel all outstanding Orders and/or decline to make further Deliveries (under this or any other contract between the Buyer and the Seller) or provision of services.

**5.4** Except where insolvency laws provide otherwise the Buyer shall not be entitled to withhold or set off payment for Goods for any reason whatsoever. All Goods for which payment has not been made in accordance with clause 5.2 and which are held by the Seller at its premises are so held at the Buyer's risk.

## 6. Delivery

**6.1** Except as otherwise stated in an Acknowledgement of Order delivery shall take place when the Seller places the Goods at the disposal of the Buyer at the Seller's premises and not loaded on any collecting vehicle.

**6.2** Any Delivery Date is approximate only. The Seller shall not be liable for any Loss arising from any failure to deliver the Goods on the Delivery Date howsoever caused. Time for delivery shall not be of the essence unless previously agreed by the Seller in writing. The Goods may be delivered by the Seller in advance of the quoted delivery date upon giving reasonable notice to the Buyer.

**6.3** The Buyer shall not be entitled to change the Delivery Date without the prior written consent of a duly authorised representative of the Seller.

**6.4** Where delivery of the Goods is to be made by the Seller, the Seller reserves the right to deliver up to 10 per cent more or 10 per cent less than the quantity ordered provided that there is a pro rata adjustment to the Price to reflect the Goods actually delivered and the quantity so delivered shall be deemed to be the quantity ordered. Goods delivered in excess of such tolerance may be rejected by the Buyer provided that it serves notice of rejection within 10 working days of Delivery.

**6.5** Where the Goods are to be delivered in installments each delivery shall constitute a separate contract and failure by the Seller to deliver any one or more of the installments in accordance with these Conditions or any claim by the Buyer in respect of any one or more installments shall not entitle the Buyer to treat the Contract as a whole as repudiated.

**6.6** Subject to clause 10.6 if the Seller fails to deliver the Goods for any reason other than Force Majeure or due to Buyer's fault and the Seller is accordingly liable to the Buyer, the Seller's only liability shall be limited to the excess (if any) of the cost to the Buyer (having used its best endeavours to replace the Goods by purchasing them in the cheapest available market) of purchasing similar goods to replace those not delivered.

**6.7** If the Buyer fails to take Delivery on the Delivery Date then without prejudice to any other right or remedy available to the Seller the Seller may:

**6.7.1** store the Goods until actual delivery and charge the Buyer for the costs (including insurance) of storage; or

**6.7.2** treat the Contract as repudiated by the Buyer and without prejudice to any other right it may have against the Buyer the Seller shall be entitled to resell the Goods and be indemnified by the Buyer for any Loss which it suffers.

## 7. Risk and Property

**7.1** Risk of damage to or loss of the Goods shall pass to the Buyer on Delivery of the Goods;

**7.2** Notwithstanding Delivery and the passing of risk in the Goods or any other provision of these Conditions the property in the Goods shall remain with the Seller until the Seller has received in cash or cleared funds payment in full of the Price and any other monies due to the Seller in respect of the Goods and all other goods agreed to be sold by the Seller to the Buyer for which payment is then due under the Contract or any other contract between the Seller and the Buyer (including without limitation costs of Delivery).

**7.3** Until such time as the property in the Goods passes to the Buyer the Buyer shall hold the goods as the Seller's fiduciary agent and bailee and shall keep the Goods separate from those of the Buyer and third parties and properly stored protected and insured and identified as the Seller's property.

**7.4** Until such time as the property in the Goods passes to the Buyer the Buyer shall be entitled to resell or use the Goods in the ordinary course of its business but shall account to the Seller for the proceeds of sale or otherwise of the Goods whether tangible or intangible including insurance proceeds and shall keep all such proceeds separate from any monies or property of the Buyer and third parties and in the case of tangible proceeds properly stored protected and insured.

**7.5** If the Goods are prior to sale by the Buyer made up or incorporated in or mixed with other goods, then if they remain separately identifiable the Seller shall retain property and title thereof and if they do not remain separately identifiable the Seller shall become a joint owner of the goods in or which the Goods are incorporated or mixed in such proportion as the value of the Goods bears to the value of the Goods in which the Goods are so incorporated or mixed.

**7.6** If the Buyer sells the Goods or the goods in which the Goods have been incorporated or mixed the sale shall be on behalf of the Seller as the joint owner thereof as the case may be and the proceeds of any such sale for the Seller's share thereof if the sale is of jointly owned property shall be held on trust for the Seller and in a separate identified account.

**7.7** Until such time as the property in the Goods passes to the Buyer (and provided the Goods are still in existence and have not been resold) the Seller shall be entitled at any time to require the Buyer to deliver up the Goods to the Seller and if the Buyer fails to do so forthwith to enter the premises of the Buyer or any third party where the Goods are stored and take possession of any Goods in which property remains in the Seller and remove and dispose of them as the Seller thinks fit. The Seller shall apply the proceeds of disposal (after deduction of all expenses) in discharge of the amount unpaid by the Buyer.

**7.8** The Buyer shall not be entitled to pledge or in any way charge by way of security for any indebtedness any of the Goods which remain the property of the Seller without the Seller's consent but if the Buyer does so all moneys owing by the Buyer to the Seller shall (without prejudice to any other right or remedy of the Seller) forthwith become due and payable.

## 8. Confidentiality and IPR

**8.1** The Buyer agrees and undertakes that it will keep confidential and will not disclose or use for any purpose (other than to perform its obligations under the Contract) any Information. Any Information supplied to the Buyer by the Seller shall at all times remain the property of the Seller. The Buyer shall not acquire any rights in the Information, which shall be returned to the Seller immediately upon request.

**8.2** Unless otherwise agreed in writing all IPR in relation to the Goods including without limitation their method of manufacture shall vest in the Seller and remain the property of the Seller notwithstanding the purchase of the Goods by the Buyer and the Buyer undertakes to do all acts and/or enter into such agreements or deeds as the Seller shall require to vest any such IPR in the Seller.

**8.3** Unless otherwise agreed in writing and notwithstanding that the Buyer may have contributed towards the costs of such items all tooling (and all IPR in relation to such tooling) produced or acquired by the Seller in relation to the manufacture of the Goods shall be and remain the property of the Seller.

## 9. Lien

**9.1** In addition to any other right or lien to which the Seller may by law or pursuant to these Conditions be entitled, the Seller shall be entitled to a general lien on all the goods and the property of the Buyer in the Seller's possession and a right of sale of such goods and property at the Seller's sole discretion for any unpaid money due under the terms of the same or any other Contract between the Seller and the Buyer.

**9.2** In addition and without prejudice to its other rights, the Seller shall have the right on fourteen days notice to the Buyer to put any goods or property over which it has a lien into a saleable state by any means whatsoever and (without prior notice to the Buyer) to sell such goods and shall be deemed the Buyer's agent for the purposes of effecting such sale. Out of the proceeds of the sale the Seller shall be entitled to retain a sum equivalent to all unpaid monies due to it from the Buyer as aforesaid together with the cost of putting the goods into a saleable state and the expenses of sale without prejudice to the Seller's right to recover the balance thereof from the Buyer.

## 10. Warranties and Liability

**10.1** The Seller warrants that at Delivery the Goods will be free from defect in materials, workmanship and design (where designed by the Seller) provided that subject as aforesaid and expressly provided in these Conditions, and except where the Goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977) all warranties conditions or other terms implied by statute and/or common law are excluded to the fullest extent permitted by law.



**10.2** Where the Goods are sold under a consumer transaction (as defined by the Consumer Transactions (Restrictions on Statements) Order 1976) the statutory rights of the Buyer are not affected by these Conditions.

**10.3** Any specification or sample supplied by the Seller in any brochure, catalogue, estimate or quotation provided by Seller shall be approximate only and for information and guidance only and shall not form part of the Contract.

**10.4** Any claim based upon the quality or condition of the Goods or any failure of the Goods to meet the Specification („Claim“) by the Buyer shall (whether or not delivery is refused by the Buyer) be notified to the Seller in writing within 7 days from the date of delivery or (where the defect or failure was not apparent on reasonable inspection) within one month after discovery of the defect or failure. If delivery is not refused and the Buyer does not notify the Seller accordingly, the Buyer shall not be entitled to reject the Goods and the Seller shall have no liability in respect of such a Claim and the Buyer shall be bound to pay the Price as if the Goods had been delivered in accordance with the Contract. The Buyer shall not be entitled to make any Claim after the expiration of six months from the date of Delivery of the Goods.

**10.5** Where any valid Claim in respect of any of the Goods is notified to the Seller in accordance with clause 10.4 the Seller shall be entitled to replace the Goods (or the part in question) free of charge or at the Seller's sole discretion refund to the Buyer the Price (or a proportionate part of the Price) but the Seller shall have no further liability to the Buyer and the Buyer shall have no other remedy.

**10.6** The Seller shall have no liability to the Buyer in relation to non-delivery or short delivery of the Goods unless such non-delivery or short delivery is notified to the Seller in writing within fourteen days of the Delivery Date.

**10.7** Where any valid Claim in respect of the Goods is notified to the Seller in accordance with clause 10.6 the Seller shall be entitled to deliver the Goods or the shortfall of the Goods, but the Buyer shall have no other remedy

**10.8** Except in respect of death or personal injury caused by the Seller's negligence the Seller's total liability to the Buyer under these Conditions shall not exceed the total price of all Goods supplied hereunder.

**10.9** The Seller shall have no liability to the Buyer under or arising out of or otherwise in connection with the Contract or the supply of Goods by the Seller to the Buyer and/or their use or resale by the Buyer in contract tort (including negligence or breach of statutory duty) or otherwise for loss of profit, business, contracts, revenues or anticipated savings or for any special indirect or consequential damage or loss of any nature or for the costs of recall of any Goods except as may otherwise be expressly provided for in these Conditions.

**10.10** Notwithstanding any provision of these Conditions the Seller shall have no liability to the Buyer in respect of any defect in the quality of the Goods or the failure of the Goods to meet Specification where the defect or failure has arisen as a result of improper use, installation or storage of Goods or as a result of any act or omission of the Buyer (including but not limited to requiring Goods to be supplied to Buyer's Specification).

**10.11** For the avoidance of doubt nothing herein contained shall be deemed to exclude or restrict the Seller's liability for death or personal injury arising due to the Seller's negligence.

**10.12** Where any Claim is made under this clause 10 the Buyer grants the Seller or its agents the right to enter upon the Buyer's premises to inspect the Goods. Unless and until the Seller has been afforded an opportunity to examine the Goods no Claim will be accepted.

**10.13** The Seller shall not be liable to the Buyer or be deemed to be in breach of the Contract by reason of any delay in performing or any failure to perform any of the Seller's obligations in relation to the Goods if the delay or failure was due to Buyer's fault or Force Majeure.

**10.14** The Buyer shall indemnify the Seller against all Loss suffered by the Seller which arises as a result of the breach by the Buyer of any provision of the Contract or the negligence of the Buyer or any of its employees, agents or representatives.

## 11. Insolvency of Buyer

### 11.1 In the event that:

**11.1.1** the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or (being an individual or firm) becomes bankrupt or (being a company) goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction);

**11.1.2** an encumbrancer takes possession or a receiver or administrator is appointed of any of the property or assets of the Buyer;

**11.1.3** the Buyer ceases or threatens to cease to carry on business;

**11.1.4** the Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly; or

**11.1.5** if the Buyer's jurisdiction is not in England and Wales any events similar to those described in clauses 11.1.1 to 11.1.4 occur then without prejudice to any other right or remedy available to the Seller the Seller shall be entitled to suspend

further performance of the Contract for such time as it shall in its absolute discretion see fit or treat the Contract as wrongfully repudiated by the Buyer and forthwith terminate the Contract (either with or without notice to the Buyer) without any liability to the Buyer and if the Goods have been delivered but not paid for the Price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

## 12. Export Terms

**12.1** Where the Goods are supplied for export from the United Kingdom the provision of this clause 12 shall (subject to any special terms in the Acknowledgement of Order or otherwise agreed in writing between the Buyer and the Seller) apply notwithstanding any other provision of these Conditions.

**12.2** The Buyer shall be responsible for complying with any legislation or regulations governing the importation of the Goods into the country of destination and for the payment of any duties thereon. In particular, if any licence or consent of any government or other authority shall be required for the acquisition, carriage or use of the Goods by the Buyer the Buyer shall obtain the same at its own expense and if necessary produce evidence of the same to the Seller on demand. Failure to do so shall not entitle the Buyer to withhold or delay payment of the Price. Any additional expenses or charges incurred by the Seller resulting from such failure shall be for the Buyer's account.

**12.3** Unless otherwise agreed in writing between the Buyer and the Seller the Goods shall be delivered ex-works (Incoterms® 2010) and the Seller shall be under no obligation to give the Buyer notice under section 32(3) of the Sale of Goods Act 1979.

**12.4** Notwithstanding clause 5.2 payment of all amounts due to the Seller shall be made by irrevocable letter of credit opened by the Buyer in favour of the Seller and confirmed by a bank in the United Kingdom acceptable to the Seller or if the Seller has agreed in writing on or before acceptance of the Buyer's order to waive this requirement for any other agreed method of payment

## 13. General

**13.1** The Seller shall be entitled to assign or subcontract all or any of its rights and obligations hereunder. The Buyer shall not be entitled to assign, transfer, subcontract or otherwise delegate any of its rights or obligations hereunder.

**13.2** Any notice required or permitted to be given by either party to the other under these Conditions shall be given in writing at its registered office or principal place of business or such other address as may be notified for such purpose to the party giving notice.

**13.3** No waiver by the Seller of any breach of Contract or any provision herein by the Buyer shall be considered as a waiver of any subsequent breach of the same or any other provision.

**13.4** If any provision of these Conditions is held by any competent authority to be invalid or unenforceable in whole or in part the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

**13.5** The parties hereto intend that no term of the Contract may be enforced by any person, entity or body that is not a party to the Contract.

**13.6** The Contract shall be governed by the laws of England and Wales and the Buyer and the Seller hereby submit to the exclusive jurisdiction of the English Courts save with respect to enforcement where their jurisdiction shall be non-exclusive.

Rev: HTLsale/02. Valid on all Orders placed on or after 17 March 2015.



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A large grid of small dots for taking notes, consisting of approximately 30 columns and 40 rows.



A large grid of small dots for taking notes, consisting of 20 columns and 40 rows.

## Europe

### **HellermannTyton GmbH – Austria**

Rennbahnweg 65  
1220 Vienna  
Tel.: +43 12 59 99 55-0  
Fax: +43 12 59 99 11  
Email: office@HellermannTyton.at  
www.HellermannTyton.at

### **HellermannTyton – Bulgaria**

Email: officeBG@HellermannTyton.at  
www.HellermannTyton.bg

### **HellermannTyton – Czech Republic**

Email: officeCZ@HellermannTyton.at  
www.HellermannTyton.cz

### **HellermannTyton – Denmark**

Industrivej 44A, 1.  
4000 Roskilde  
Tel.: +45 702 371 20  
Email: htdk@HellermannTyton.dk  
www.HellermannTyton.dk

### **HellermannTyton – Finland**

Äyritie 12 B  
01510 Vantaa  
Tel.: +358 9 8700 450  
Email: myynti@HellermannTyton.fi  
www.HellermannTyton.fi

### **HellermannTyton S.A.S. – France**

2 rue des Hêtres - CS 80543  
78197 Trappes Cedex  
Tel.: +33 1 30 13 80 00  
Fax: +33 1 30 13 80 60  
Email: info.htf@HellermannTyton.com  
www.HellermannTyton.fr

### **HellermannTyton GmbH – Germany**

Großer Moorweg 45  
25436 Tornesch  
Tel.: +49 4122 701-0  
Fax: +49 4122 701-400  
Email: info@HellermannTyton.de  
www.HellermannTyton.de

### **HellermannTyton KFT – Hungary**

Kisfaludy u. 13  
1044 Budapest  
Tel.: +36 1 369 4151  
Fax: +36 1 369 4151  
Email: officeHU@HellermannTyton.at  
www.HellermannTyton.hu

### **HellermannTyton Ltd – Ireland**

Unit A5 Cherry Orchard  
Business Park  
Ballyfermot, Dublin 10  
Tel.: +353 1 626 8267  
Fax: +353 1 626 8022  
Email: sales@HellermannTyton.ie  
www.HellermannTyton.co.uk

### **HellermannTyton S.r.l. – Italy**

Via Visco, 3/5  
35010 Limena (PD)  
Tel.: +39 049 767 870  
Fax: +39 049 767 985  
Email: info@HellermannTyton.it  
www.HellermannTyton.it

### **HellermannTyton B.V. – Belgium/Netherlands**

Vanadiumweg 11-C  
3812 PX Amersfoort  
Tel.: +31 33 460 06 90  
Email (NL): info@HellermannTyton.nl  
Email (BE): info@HellermannTyton.be  
www.HellermannTyton.nl  
www.HellermannTyton.be

### **HellermannTyton AS – Norway**

Nils Hansens vei 13  
0667 Oslo  
Tel.: +47 23 17 47 00  
Email: firmapost@HellermannTyton.no  
www.HellermannTyton.no

### **HellermannTyton Sp. z o.o. – Poland**

Kotunia 111  
62-400 Stupca  
Tel.: +48 63 2237 111  
Fax: +48 63 2237 110  
Email: info@HellermannTyton.pl  
www.HellermannTyton.pl

### **HellermannTyton – Romania**

Email: officeRO@HellermannTyton.at  
www.HellermannTyton.ro

### **OOO HellermannTyton – Russia**

40/4, Pulkovskoe road  
BC Technopolis Pulkovo, office A 8081  
196158, St. Petersburg  
Tel.: +7 812 386 00 09  
Fax: +7 812 386 00 08  
Email: info@HellermannTyton.ru  
www.HellermannTyton.ru

### **HellermannTyton – Slovenia**

Branch Office Ljubljana  
Podružnica Ljubljana, Ukmarjeva 2  
1000 Ljubljana  
Tel.: +386 1 433 70 56  
Fax: +386 1 433 63 21  
Email: officeSI@HellermannTyton.at  
www.HellermannTyton.si

### **HellermannTyton España s.l. – Spain / Portugal**

Avda. de la Industria 37 2º 2  
28108 Alcobendas, Madrid  
Tel.: +34 91 661 2835  
Fax: +34 91 661 2368  
Email:  
HellermannTyton@HellermannTyton.es  
www.HellermannTyton.es

### **HellermannTyton AB – Sweden**

Isafjordsgatan 5  
16440 Kista  
Tel.: +46 8 580 890 00  
Fax: +46 8 580 348 02  
Email: kundsupport@HellermannTyton.se  
www.HellermannTyton.se

### **HellermannTyton Engineering GmbH – Turkey**

Saray Mah Dr. Adnan Büyükdelen Cad. No:4  
Akkom Office Park 2. Blok Kat: 10  
34768 Ümraniye-Istanbul  
Tel.: +90 216 687 03 40  
Fax: +90 216 250 32 32  
Email: info@HellermannTyton.com.tr  
www.HellermannTyton.com.tr

### **HellermannTyton Ltd – UK**

William Prance Road  
Plymouth International Medical  
and Technology Park  
Plymouth, Devon PL6 5WR  
Tel.: +44 1752 701 261  
Fax: +44 1752 790 058  
Email: uk-pt@HellermannTyton.com  
www.HellermannTyton.co.uk

### **HellermannTyton Ltd – UK**

Sharston Green Business Park  
1 Robeson Way  
Altrincham Road, Wythenshawe  
Manchester M22 4TY  
Tel.: +44 161 947 2200  
Fax: +44 161 947 2220  
Email: uk-pt@HellermannTyton.com  
www.HellermannTyton.co.uk

### **HellermannTyton Ltd – UK**

Cley Road, Kingswood Lakeside  
Cannock, Staffordshire  
WS11 8AA  
Tel.: +44 1543 728282  
Fax: +44 1543 728284  
Email: uk-pt@HellermannTyton.com  
www.HellermannTyton.co.uk

### **HellermannTyton Data Ltd – UK**

Waterside House, Edgar Mobbs Way  
Northampton NN5 5JE  
Tel.: +44 1604 707 420  
Fax: +44 1604 705 454  
Email: sales@htdata.co.uk  
www.htdata.co.uk

## Middle East

### **HellermannTyton – UAE**

Email: info@HellermannTyton.ae  
www.HellermannTyton.ae

## North America

### **HellermannTyton – Canada**

Tel.: +1 905 726 1221  
Fax: +1 905 726 8538  
Email: sales@HellermannTyton.ca  
www.HellermannTyton.ca

### **HellermannTyton – Mexico**

Tel.: +52 333 133 9880  
Fax: +52 333 133 9861  
Email: info@HellermannTyton.com.mx  
www.HellermannTyton.us

### **HellermannTyton – USA**

Tel.: +1 414 355 1130  
Fax: +1 414 355 7341  
Email: corp@htamericas.com  
www.HellermannTyton.us

## South America

### **HellermannTyton – Argentina**

Tel.: +54 11 4754 5400  
Fax: +54 11 4752 0374  
Email: ventas@HellermannTyton.com.ar  
www.HellermannTyton.com.ar

### **HellermannTyton – Brazil**

Tel.: +55 11 4815 9000  
Fax: +55 11 4815 9030  
Email: vendas@HellermannTyton.com.br  
www.HellermannTyton.com.br

## Asia-Pacific

### **HellermannTyton – Australia**

Tel.: +61 2 9525 2133  
Fax: +61 2 9526 2495  
Email: cservice@HellermannTyton.com.au  
www.HellermannTyton.com.au

### **HellermannTyton – China**

Tel.: +86 510 8528 2536  
Fax: +86 510 8528 2731  
Email: cservice@HellermannTyton.com.cn  
www.HellermannTyton.com.cn

### **HellermannTyton – Hong Kong**

Tel.: +852 2831 9090  
Fax: +852 2832 9381  
Email: cservice@HellermannTyton.com.hk  
www.HellermannTyton.com.sg

### **HellermannTyton – India**

Tel.: +91 120 413 3384  
Email: cservice@HellermannTyton.co.in  
www.HellermannTyton.co.in

### **HellermannTyton – Japan**

Tel.: +81 3 5790 3111  
Fax: +81 3 5790 3112  
Email: mkt@hellermanntyton.co.jp  
www.HellermannTyton.co.jp

### **HellermannTyton – Republic of Korea**

Tel.: +82 32 833 8012  
Fax: +82 32 833 8013  
Email: cservice@HellermannTyton.co.kr  
www.HellermannTyton.co.kr

### **HellermannTyton – Philippines**

Tel.: +63 2 752 6551  
Fax: +63 2 752 6553  
Email: cservice@HellermannTyton.com.ph  
www.HellermannTyton.com.ph

### **HellermannTyton – Singapore**

Tel.: +65 6 586 1919  
Fax: +65 6 752 2527  
Email: cservice@HellermannTyton.sg  
www.HellermannTyton.com.sg

### **HellermannTyton – Thailand**

Tel.: +662 237 6702 / 266 0624  
Fax: +662 266 8664  
Email: cservice@HellermannTyton.co.th  
www.HellermannTyton.com.sg

## Africa

### **HellermannTyton – South Africa**

Tel.: +27 11 879 6600  
Fax: +27 11 879 6603  
Email: jhb.sales@Hellermann.co.za  
www.HellermannTyton.co.za

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We meet growing global challenges by being close to our clients. HellermannTyton speaks your language when it comes to devising new solutions and optimising processes. We want you to be able to provide your customers with even better results.



## Your local contact person

### Head office

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Tel: 0808 164 2204

[uk-pt@HellermannTyton.com](mailto:uk-pt@HellermannTyton.com)

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### Sales

---

Tel: 0808 164 2204

[uk-pt@HellermannTyton.com](mailto:uk-pt@HellermannTyton.com)

---

### Automotive Sales

---

Tel: 0808 164 2204

[uk-pt@HellermannTyton.com](mailto:uk-pt@HellermannTyton.com)

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#### General information

For small orders under £125,- (net without sales tax) we charge a small order administration charge of £20,- (net without sales tax) per order and delivery. The delivery takes place exclusively according to our general sales and delivery conditions, available at [www.HellermannTyton.co.uk/terms-and-conditions](http://www.HellermannTyton.co.uk/terms-and-conditions). Nominal fee £20,-

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