



## Inspired by Needs

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**Abbreviations: Product Material**

Abbreviation*	Material
1203	Type 1203, Polyester (PET), silver matt (SR), tamper-proof
1220	Type 1220, Polyester (PET), white (WH)
1221	Type 1221, Polyester (PET), silver (SR)
ABS	Acrylonitrile Butadiene Styrene
AL	Aluminium
AL;CR	Aluminium-alloy; Chloroprene
AL;ST	Aluminium; Steel
CR	Chloroprene
E/TFE	Ethylene Tetrafluoroethylene
EP	Epoxy resins
EPR	Ethylene Propylene Rubber
EVA	Ethylenevinylacetate
FPMX	Fluoropolymer cross-linked
GS	Galvanised Steel
GS;PVC	Galvanised Steel; Polyvinylchloride
Metal	Metal
NR	Natural Rubber
PA	Polyamide
PA46	Polyamide 4.6
PA6	Polyamide 6
PA66	Polyamide 6.6
PA66, PP	Polyamide 6.6; Polypropylene
PA66GF13	Polyamide 6.6, glass-fibre reinforced
PA66GF15	Polyamide 6.6, glass-fibre reinforced
PA66HIR	Polyamide 6.6, high impact modified
PA66HIR(S)	Polyamide 6.6, high impact modified, blackscan
PA66HIRHS	Polyamide 6.6, high impact modified, heat stabilised
PA66HIRHS	Polyamide 6.6, high impact modified, heat stabilised
PA66HIRHSUV	Polyamide 6.6, high impact modified, heat and UV stabilised
PA66HIRHSW	Polyamide 6.6, high impact modified, heat and UV stabilised
PA66HS	Polyamide 6.6, heat stabilised
PA66HS	Polyamide 6.6, heat stabilised
PA66HS, POM	Polyamide 6.6, heat stabilised; Polyacetal
PA66HS, PP	Polyamide 6.6, heat stabilised; Polypropylene
PA66HSUV	Polyamide 6.6, heat and UV stabilised
PA66HSW	Polyamide 6.6, heat and UV stabilised
PA66MP	Polyamide 6.6, with metal particles
PA66MP+	Polyamide 6.6, with metal particles
PA66V0	Polyamide 6.6 V0
PA66W	Polyamide 6.6, UV-resistant




PA6-FR	Polyamide 6, flame retardant
PA6GF30	Polyamide 6, glass-fibre reinforced
PA6HIR	Polyamide 6, high impact modified
PA6HIRHS	Polyamide 6, high impact modified, heat stabilised
PA6V0	Polyamide 6 V0
PBT	Polyester (PBT)
PC	Polycarbonate
PE, SS	Polyethylene, Stainless Steel
PEEK	Polyetheretherketone
PE-FR	Polyethylene, flame retardant
PET	Polyester Film
PEUV	Polyethylene, UV-resistant
PL	Plastic
PM	Elastomer (PM)
PMMA	Acrylic Glass
PO	Polyolefin Compound unlinked
POA	Elastomer, cross-linked
POM	Polyacetal
PO-X	Polyolefin, chemically cross linked
PP	Polypropylene (PP)
PP, SS	Polypropylene, Stainless Steel
PPMP	Polypropylene with metal particles
PPMP+	Polypropylene with metal particles
PTFE	Polytetrafluoroethylene
PUR	Polyurethane
PUR DS	Polyurethane resin DS
PVC	Polyvinylchloride
PVC, ST	Flexible Polyvinyl Chloride, cadmium free
PVC-FR	Polyvinylchloride, flame retardant
PVDF	Polyvinylidene Fluoride
PVDFX	Polyvinylidene Fluoride cross-linked
SI	Silicone
SP	Polyester
SS304	Stainless Steel
SS316	Stainless Steel
TNCU	Tin-plated copper (TNCU)
TPU	Thermoplastic Polyurethane (TPU)
V	Vinyl

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

























## Abbreviation: Colours

Abbreviation	Colour
BGE	Beige 
BK	Black 
BN	Brown 
BL	Blue 
CL	Clear 
GD	Gold 
GR	Green 
GRYE	Green Yellow 
GY	Grey 
LTB	Light Blue 
MGN	Mint Green 
MST	Mustard 
NT	Natural 
OG	Orange 
PK	Pink 
RD	Red 
RUS	Russet 
SR	Silver 
TT	Transparent 
VT	Violet 
WT	White 
YL	Yellow 

















## Abbreviations: Compliance

	Halogen Free
	Limited Fire Hazard
	Restriction of use of certain hazardous substances in electrical and electronic equipment

















## Industry Symbols

	Aerospace
	Automotive
	Chemical
	Defence
	Distribution
	Electrical Installation
	Electronic
	Events
	Food and Beverage
	Industrial Automation
	Life Sciences (Medical & Pharma)
	Marine
	Mining
	Offshore
	Panel Builder
	Petrochemical
	Rail
	Renewable Energy
	Shipbuilding
	Telecommunication
	Truck Heavy Equipment
	White Goods
	Wind Power
	Do-It-Yourself

















## Standards Overview

ABS	American Bureau of Shipping	USA	
ASN	AeroSpatiale Normalidation	France	
ASTM	ASTM International	USA	
BS	British Standard	Great Britain	
BV	Bureau Veritas	France	
CE	Conformité Européenne	Europe	
CEBEC	Comitée for electrotechnical Belgium European Community	Belgium	
CEN	Comité Européen de Normalisation	Europe	
CSA	Canadian Standards Association	Canada	
cUL	Canadian Underwriters Laboratories	Canada	
DAN	Deutsche Airbus Norm	Europe	
DEF STAN	Defence Standard	Great Britain	
DEMKO	Danske Elektriske Materialekontrol	Denmark	
DIN	Deutsches Institut für Normung	Germany	
DNV	Det Norske Veritas	Norway	
DNVGL	Det Norske Veritas + Germanischer Lloyd	Norway	

## Standards Overview

EN	European Normative	Europe	
ENEC	European Norms Electrical Certification	Europe	
E.R.D.F.	Electricité Réseau Distribution France	France	
FCC	Federal Communications Commission	USA	
FDA	U.S. Food and Drug Administration	USA	
FIMKO	Suomalainen testaus ja sertifiointiyhteisö	Finland	
GL	Germanischer Lloyd	Germany	
GS	Geprüfte Sicherheit	Europe	
HACCP	Hazard Analysis and Critical Control Points	International	
IEC	International Electrotechnical Commission	International	
JAR/FAR	Joint Aviation Regulations / Federal Aviation Regulations	Europe, USA	
JN	Particular Specification developed for Eurofighter Program		
KBA	Kraftfahrt-Bundesamt	Germany	
KEMA KEUR	KEMA Quality B.V.	The Netherlands	
LEA	Liste des Equivalences Approuvées	France	
LR	Lloyd's Register	Great Britain	

## Standards Overview

LUL	London Underground Tested	Great Britain	
MIL	Military Specification	USA	
MS	Military Standard	USA	
NASM	National Aerospace Standard, Metric	USA	
NEMKO	Norges Elektriske Materiekkontroll	Norway	
NF F	Norme Française Ferroviaire	France	
NSA	Norm Sud Aviation	France	
PAN	Panavia Aircraft GmbH	Germany	
SAE	Society of Automotive Engineers	USA	
SEMKO	Sveriges Elektriska Materiekkontroll	Sweden	
STD	Standard for Dassault	France	
UL	Underwriters Laboratories	USA	
UL Recognized	Underwriters Laboratories Recognized	USA	
UNI CEI	Ente Nazionale Italiano di Unificazione Comitato Elettrotecnico Italiano	Italy	
VDE	Verband der Elektrotechnik, Elektronik, Informationstechnik	Germany	
VG	Verteidigungsgerätenorm der Bundeswehr	Germany	



## Standards: HellermannTyton Cable Ties and Fixings

Material	Colour	Approvals	UL-File Number
<b>CTQM5</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
	NT		
<b>KR6/35</b>			
PA66	NT	RATP   NF EN 45545-2 HL3 R22, RATP   NF EN 45545-2 HL3 R23, DNV GL   IEC 62275:2006	
PA66W	BK	DNV GL   IEC 62275:2006	
<b>KR6G5</b>			
E/TFE	BL	UL   ANSI/UL 1565, UL   ANSI/UL 62275	E64962
<b>KR8/21</b>			
PA66	NT	RATP   NF EN 45545-2 HL3 R23, RATP   NF EN 45545-2 HL3 R22, DNV GL   IEC 62275:2006	
PA66W	BK	DNV GL   IEC 62275:2006	
<b>KR8/33</b>			
PA66	NT	RATP   NF EN 45545-2 HL3 R23, RATP   NF EN 45545-2 HL3 R22, DNV GL   IEC 62275:2006	
PA66W	BK	DNV GL   IEC 62275:2006	
<b>KR8G5</b>			
E/TFE	BL	UL   ANSI/UL 1565, UL   ANSI/UL 62275	E64962
<b>LFPC103</b>			
PO	BK	DEF STAN 61-12	
<b>LFPC129</b>			
PO	BK	DEF STAN 61-12	
<b>LFPC132</b>			
PO	BK	DEF STAN 61-12	
<b>LFPC150</b>			
PO	BK	DEF STAN 61-12	
<b>LFPC163</b>			
PO	BK	DEF STAN 61-12	
<b>LFPC70</b>			
PO	BK	DEF STAN 61-12	
<b>LFPC83</b>			
PO	BK	DEF STAN 61-12	
<b>LK2</b>			
PA66	NT	DNV GL   IEC 62275:2006, Bureau Veritas   IEC 60092 series	
<b>LK2A</b>			
PA66	BK	DNV GL   IEC 62275:2006, Bureau Veritas   IEC 60092 series	
	NT		
PA66HIR(S)	BK	Bureau Veritas   IEC 60092 series	
PA66HS	NT	Bureau Veritas   IEC 60092 series, DNV GL   IEC 62275:2006	
PA66W	BK	DNV GL   IEC 62275:2006, Bureau Veritas   IEC 60092 series	
<b>LK5</b>			
PA66	BK	Bureau Veritas   IEC 60092 series	
	NT		
PA66HIR(S)	BK		
PA66HS	NT		
PA66W	BK	DNV GL   IEC 62275:2006	

Material	Colour	Approvals	UL-File Number
<b>LPH175</b>			
PA66	BK	DNV GL   IEC 62275:2006, Bureau Veritas   IEC 60092 series	
<b>LPH275</b>			
PA66HIR(S)	BK	Bureau Veritas   IEC 60092 series	
<b>LPH350</b>			
PA66HIR(S)	BK	Bureau Veritas   IEC 60092 series	
<b>MBT14H</b>			
SS316	ML	Bureau Veritas   IEC 60092, DNV GL   IEC 62275:2006, ABS   IEC 62275:2006	
<b>MBT14S</b>			
SS316	ML	IEC 62275, Bureau Veritas   IEC 60092, ABS   IEC 62275:2006, DNV GL   IEC 62275:2006	
<b>MBT14XH</b>			
SS316	ML	ABS, GL, IEC 62275, Bureau Veritas   IEC 60092	
<b>MBT20H</b>			
SS316	ML	IEC 62275, Bureau Veritas   IEC 60092, ABS   IEC 62275:2006, DNV GL   IEC 62275:2006	
<b>MBT20S</b>			
SS316	ML	Bureau Veritas   IEC 60092, ABS   IEC 62275:2006, DNV GL   IEC 62275:2006	
<b>MBT20XH</b>			
SS316	ML	Bureau Veritas   IEC 60092	
<b>MBT27H</b>			
SS316	ML	Det Norske Veritas, ABS, GL, IEC 62275, Bureau Veritas   IEC 60092	
<b>MBT27S</b>			
SS316	ML	Det Norske Veritas, ABS, GL, IEC 62275, Bureau Veritas   IEC 60092	
<b>MBT27XH</b>			
SS316	ML	Bureau Veritas   IEC 60092	
<b>MBT33H</b>			
SS316	ML	Det Norske Veritas, ABS, GL, IEC 62275, Bureau Veritas   IEC 60092	
<b>MBT33S</b>			
SS316	ML	Det Norske Veritas, ABS, GL, IEC 62275, Bureau Veritas   IEC 60092	
<b>MBT33XH</b>			
SS316	ML	Bureau Veritas   IEC 60092	
<b>MBT5S</b>			
SS316	ML	ABS, DNV GL, IEC 62275, Bureau Veritas   IEC 60092	
<b>MBT8H</b>			
SS316	ML	Det Norske Veritas, ABS, GL, IEC 62275	
<b>MBT8S</b>			
SS316	ML	Det Norske Veritas, ABS, GL, IEC 62275, Bureau Veritas   IEC 60092	
<b>MP4M3</b>			
PA66	NT	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
<b>MSMP5/10</b>			
PA66	NT	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64139
<b>MSMP6/6</b>			
PA66	NT	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64139

**Standards: HellermannTyton Cable Ties and Fixings**

Material	Colour	Approvals	UL-File Number
<b>MST200S</b>			
SS304	ML	Det Norske Veritas, IEC 62275	
<b>MST360S</b>			
SS304	ML	Det Norske Veritas, IEC 62275	
<b>MST500S</b>			
SS304	ML	Det Norske Veritas, IEC 62275	
<b>MST700S</b>			
SS304	ML	Det Norske Veritas, IEC 62275	
<b>PE180</b>			
PA66HSW	BK	Bureau Veritas   IEC 60092 series	
<b>PE400</b>			
PA66	BL	Bureau Veritas   IEC 60092 series	
	GN		
	RD		
	YL		
<b>PE530</b>			
PA66HSW	BK	Bureau Veritas   IEC 60092 series	
<b>PT220</b>			
PEEK	BGE	VDE, DNV GL   EN 62275:2009	
<b>PT2A</b>			
PEEK	BGE	VDE, DNV GL   EN 62275:2009	
<b>Q120I</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
	BL		
	GN		
	NT		
	RD		
PA66HS	BK		
	NT		
<b>Q120M</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
	BL		
	GN		
	NT		
	RD		
PA66HS	BK		
	NT		
<b>Q120R</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
	BL		
	GN		
	NT		
	RD		
PA66HS	BK		
	NT		

Material	Colour	Approvals	UL-File Number
<b>Q18I</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
	BL		
	GN		
	NT		
PA66HS	RD		
	BK		
<b>Q18L</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
	BL		
	GN		
	NT		
	RD		
PA66HS	BK		
	NT		
<b>Q18R</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
	BL		
	GN		
	NT		
PA66HS	RD		
	BK		
<b>Q30L</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
	BL		
	GN		
	NT		
PA66HS	RD	UL   ANSI/UL 62275	
	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
<b>Q30LR</b>			
PA66	GN	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
<b>Q30R</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
	BL		
	GN		
	NT		
	RD		
PA66HS	BK		
	NT		
<b>Q50L</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
	BL		
	GN		
	NT		
PA66HS	RD		
	BK		
<b>Q50R</b>			
PA66HS	NT		
	BK		



All approvals, standards or specifications included in the General Catalogue 2019 at the time of printing, January 2019 are correct. Please consult our website [www.HellermannTyton.co.za](http://www.HellermannTyton.co.za) for further updates.

## Standards: HellermannTyton Cable Ties and Fixings

Material	Colour	Approvals	UL-File Number
<b>Q50R</b>			
PA66	NT	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
<b>QM20</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E65344
	NT		
<b>REL100</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
<b>REL140</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
<b>RELF170</b>			
PA66HIR	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
<b>RELK21</b>			
PA66	BK	Bureau Veritas   IEC 60092 series	
	NT		
<b>RELK2L</b>			
PA66	BK	Bureau Veritas   IEC 60092 series, DNV GL   IEC 62275:2006	E64963
	NT	DNV GL   IEC 62275:2006, Bureau Veritas   IEC 60092 series	
<b>RELK2M</b>			
PA66	BK	DNV GL   IEC 62275:2006, Bureau Veritas   IEC 60092 series	E64963
	NT		
<b>RELK2R</b>			
PA66	NT	BV, DNV GL   IEC 62275:2006	E64963
<b>RLT120</b>			
PA66	BK	Bureau Veritas   IEC 60092 series	
	NT	Bureau Veritas   IEC 60092 series, DNV GL   IEC 62275:2006	
<b>RLT150</b>			
PA66	BK	Bureau Veritas   IEC 60092 series	E64963
	NT	DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B, Bureau Veritas   IEC 60092 series	
PA66HS		Bureau Veritas   IEC 60092 series	
PA66W	BK	DNV GL   IEC 62275:2006	
<b>RT250M</b>			
PA66	BK	Bureau Veritas   IEC 60092 series, DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64139
	NT	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B, DNV GL   IEC 62275:2006	
PA66W	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
<b>RT250XL</b>			
PA66	BK	UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275, DNV GL   IEC 62275:2006	E64139
	NT	DNV GL   IEC 62275:2006, UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275	
<b>T120I</b>			
PA66	BK	BV 03856/H0 BV, DNV GL   IEC 62275:2006	
	NT		
PA66HIR(S)	BK	BV 03856/H0 BV	
PA66W	BK	DNV GL   IEC 62275:2006	

Material	Colour	Approvals	UL-File Number
<b>T120L</b>			
PA66	BK	BV 03856/H0 BV, DNV GL   IEC 62275:2006	
	NT	GL 86 137-81 HH, BV 03856/H0 BV, DNV GL   IEC 62275:2006	
PA66HIR(S)	BK	BV 03856/H0 BV	
PA66HS	NT	DNV GL   IEC 62275:2006, Bureau Veritas   IEC 60092 series	
PA66W	BK	DNV GL   IEC 62275:2006	
<b>T120R</b>			
E/TFE	BL	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B, DNV GL   IEC 62275:2006	E193818
<b>T120R(E)</b>			
PA46	NT	BV 03856/H0 BV	
PA66	BK	BV 03856/H0 BV, Det Norske Veritas, UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275	E64963
	GN	BV 03856/H0 BV, DNV GL   IEC 62275:2006	
	NT	BV 03856/H0 BV, UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275, DNV GL   IEC 62275:2006	E64963
	RD	BV 03856/H0 BV, Det Norske Veritas	
PA66HIR(S)	BK	BV 03856/H0 BV	
PA66HS	NT		
PA66V0	WT	BV 03856/H0 BV, RST LAB   DIN EN 45545-2 HL2 R22, RST LAB   DIN EN 45545-2 HL3 R23	
PA66W	BK	BV 03856/H0 BV, DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
<b>T120ROS</b>			
PA66V0	WT	RST LAB   DIN EN 45545-2 HL2 R22, RST LAB   DIN EN 45545-2 HL3 R23	
<b>T120S</b>			
PA66	NT	BV 03856/H0 BV, UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275, DNV GL   IEC 62275:2006	E64963
PA66HS	BK	BV 03856/H0 BV, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
	NT	BV 03856/H0 BV, DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
PA66W	BK	DNV GL   IEC 62275:2006	
<b>T150L</b>			
PA66	BK	MIL 53421, UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275	E64139
	NT	MIL 53421, DNV GL, UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275	
PA66HS	BK	MIL 53421, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
PA66W	BK	DNV GL   IEC 62275:2006	

**Standards: HellermannTyton Cable Ties and Fixings**

Material	Colour	Approvals	UL-File Number
<b>T150R</b>			
PA66	BK	UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275	E85319
	NT	UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275, DNV GL   IEC 62275:2006	
<b>T150R(H)</b>			
PA66	BL	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E85319
	RD		
	YL		
PA66HS	BK	VG U48/04101, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E85319
	NT		
PA66W	BK	DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
<b>T18I</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E85319
	NT	DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
PA66HS	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
	NT	DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
PA66W	BK	DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565	
<b>T18L</b>			
PA66	BK	UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275	E85319
	NT	UL   ANSI/UL 1565, UL   ANSI/UL 62275, UL   ANSI/UL 746B, DNV GL   IEC 62275:2006	
PA66HS	BK	DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
	NT	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B, DNV GL   IEC 62275:2006	
PA66V0	WT	BV 03856/H0 BV	
PA66W	BK	DNV GL   IEC 62275:2006	

Material	Colour	Approvals	UL-File Number
<b>T18R</b>			
E/TFE	BL	UL   ANSI/UL 1565, UL   ANSI/UL 62275, DNV GL   IEC 62275:2006	E304723
PA11		BV 03856/H0 BV	
PA66	BK	UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275, DNV GL   IEC 62275:2006	E85319
	BL	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B, DNV GL   IEC 62275:2006	E85319
	GN		
	NT	UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275, DNV GL   IEC 62275:2006	
	RD	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B, DNV GL   IEC 62275:2006	
PA66HS	BK	DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E85319
	NT	STD78750, Bundesamt für Wehrtechnik   VG 95387 Teil 2 Ausgabe: 2008-12, Bundesamt für Wehrtechnik   VG 95387 Teil 4 Ausgabe: 2008-12, DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
PA66V0	WT	BV 03856/H0 BV, RST LAB   DIN EN 45545-2 HL3 R23, RST LAB   DIN EN 45545-2 HL2 R22	
PA66W	BK	DNV GL   IEC 62275:2006	
<b>T18ROS</b>			
PA66V0	WT	RST LAB   DIN EN 45545-2 HL3 R23, RST LAB   DIN EN 45545-2 HL2 R22	
<b>T18S</b>			
PA66	NT	UL   ANSI/UL 746B, UL   ANSI/UL 1565, UL   ANSI/UL 62275, DNV GL   IEC 62275:2006	E85319
<b>T250I</b>			
PA66	NT	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64139
<b>T250L</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64139
<b>T250R</b>			
PA66	NT	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64139
PA66HIRHSUV	BK		
<b>T250S</b>			
PA66	NT	BV 03856/H0 BV	
<b>T250X</b>			
PA66	BK	BV 03856/H0 BV	
<b>T25L</b>			
PA66	NT	DNV GL   IEC 62275:2006	



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## Standards: HellermannTyton Cable Ties and Fixings

Material	Colour	Approvals	UL-File Number
<b>T30L</b>			
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
	NT	DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
PA66HS	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E85319
	NT	BV 03856/H0 BV, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
PA66W	BK	DNV GL   IEC 62275:2006	
<b>T30R</b>			
E/TFE	BL	UL   ANSI/UL 1565, UL   ANSI/UL 62275, DNV GL   IEC 62275:2006	E64962
PA11		BV 03856/H0 BV	
PA66	BK	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E85319
	BL	BV 03856/H0 BV	
	GN	BV 03856/H0 BV	
	NT	DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E85319
	RD		
	YL	BV 03856/H0 BV	
PA66HS	BK		
	NT	STD78750, Bundesamt für Wehrtechnik   VG 95387 Teil 4 Ausgabe: 2008-12, Bundesamt für Wehrtechnik   VG 95387 Teil 2 Ausgabe: 2008-12, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B, DNV GL   IEC 62275:2006	E85319
PA66V0	WT	BV 03856/H0 BV, RST LAB   DIN EN 45545-2 HL2 R22, RST LAB   DIN EN 45545-2 HL3 R23	
PA66W	BK	DNV GL   IEC 62275:2006	
<b>T40R</b>			
PA66	NT	BV 03856/H0 BV, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B, DNV GL   IEC 62275:2006	E64963
PA66HS	BK	BV 03856/H0 BV, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	
	NT	ANSI/UL 746B	
PA66W	BK	DNV GL   IEC 62275:2006	
<b>T50I</b>			
PA46	NT	BV 03856/H0 BV	
PA66	BK	BV 03856/G0 BV, BV 03856/H0 BV, Det Norske Veritas, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
	NT	BV 03856/G0 BV, BV 03856/H0 BV, DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	

Material	Colour	Approvals	UL-File Number
PA66HIR(S)		BV 03856/H0 BV	
PA66HS	BK	BV 03856/H0 BV, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E85319
	NT	VG U48/04102, BV 03856/G0 BV, BV 03856/H0 BV	
PA66V0	WT	BV 03856/H0 BV, RST LAB   DIN EN 45545-2 HL2 R22, RST LAB   DIN EN 45545-2 HL3 R23	
PA66W	BK	DNV GL, IEC 62275	
<b>T50L</b>			
E/TFE	BL	UL   ANSI/UL 1565, UL   ANSI/UL 62275, DNV GL   IEC 62275:2006	E64962
PA66	BK	BV 03856/H0 BV, Det Norske Veritas, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
	BL	BV 03856/H0 BV	
	GN	BV 03856/H0 BV	
	NT	DNV GL   IEC 62275:2006, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B, Bureau Veritas   IEC 60092 series	E64963
	RD		
	YL	BV 03856/H0 BV	
PA66HIR(S)			
PA66HS	BK	Bundesamt für Wehrtechnik   VG 95387 Teil 4 Ausgabe: 2008-12, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E85319
	NT	BV 03856/H0 BV, DNV GL, Bundesamt für Wehrtechnik   VG 95387 Teil 4 Ausgabe: 2008-12, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
PA66W	BK	DNV GL   IEC 62275:2006	
<b>T50R</b>			
E/TFE	BL	UL   ANSI/UL 1565, UL   ANSI/UL 62275, DNV GL   IEC 62275:2006	E64962
PA11	BK		
PA66	BL	BV 03856/H0 BV	
	GN	BV 03856/H0 BV	
	NT	BV 03856/H0 BV, DNV GL   IEC 62275:2006, CE   2011/65/EU [article 4], CE   2014/35/EU, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
	RD		
	YL	BV 03856/H0 BV	
PA66HIR(S)			
PA66HS	BK		
PA66V0	WT	BV 03856/H0 BV, RST LAB   DIN EN 45545-2 HL2 R22, RST LAB   DIN EN 45545-2 HL3 R23	
PA66W	BK	DNV GL, IEC 62275	

**Standards: HellermannTyton Cable Ties and Fixings**

Material	Colour		UL-File Number
<b>T50RDH</b>			
PA46	GY	DNV GL   IEC 62275:2006	
PA66	NT	UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B	E64963
<b>T50S</b>			
PA11	BK	BV 03856/H0 BV	
PA66	NT	BV 03856/H0 BV, UL   ANSI/UL 62275, UL   ANSI/UL 1565, UL   ANSI/UL 746B, DNV GL   IEC 62275:2006, CE   2011/65/EU [article 4], CE   2014/35/EU	E64963
PA66HS	BK	BV 03856/H0 BV	
	NT	BV 03856/H0 BV, DNV GL   IEC 62275:2006	
PA66W	BK	DNV GL   IEC 62275:2006	
<b>T80I</b>			
PA66W	BK	DNV GL   IEC 62275:2006	
<b>T80L</b>			
PA66HS	BK	Bundesamt für Wehrtechnik   VG 95387 Teil 4 Ausgabe: 2008-12	
	NT	STD78750, Bundesamt für Wehrtechnik   VG 95387 Teil 4 Ausgabe: 2008-12	
PA66W	BK	DNV GL   IEC 62275:2006	
<b>T80R</b>			
PA66HS	NT	STD78750, Bundesamt für Wehrtechnik   VG 95387 Teil 4 Ausgabe: 2008-12, Bundesamt für Wehrtechnik   VG 95387 Teil 2 Ausgabe: 2008-12	
PA66W	BK	DNV GL   IEC 62275:2006	



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### Standards: HellermannTyton Heatshrink Tubing

Type	Specifications
EPS-300	SAE - AMS - DTL-23053/4
EPS-400	SAE - AMS - DTL-23053/4
HFT-A	ANSI/UL 224, ASN-E0126, CLASS 903201, CSA-C22.2 No.198.1-99, DEF STAN 59-97/3, LEA, MIL-DTL-23053/5C, NF F 00-608, NSA937211, SAE - AMS - DTL-23053/5C, UL 224, VG 95343-5:2006-06, VG 95343 T05 A 002 A, 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, VG 95343 T05 A 003 C
LVR	ANSI/UL 224
Viton®-E	LEA, VG 95343
TFE4	NSA 937210

Specifications apply to limited article numbers

### Standards: HellermannTyton Heat Shrinkable Moulded Shapes

Type	Specifications
1100 series 90 degree with Rib - VG	DAN341, DEF STAN 59-97/3, VG 95343-6:2009-12
1100 series 90 high ratio	DEF STAN 59-97/3, VG 95343-6:2009-12
1100 series 90 low profile with Rib	DEF STAN 59-97/3, VG 95343-6:2009-12
1200 series T offset - VG	DEF STAN 59-97/3, VG 95343-8:2016-03
1200 series T - VG	DEF STAN 59-97/3, VG 95343-8:2016-03
1300 series 45 angle (and 30) T - VG	JN1000T, VG 95343-8:2016-03
130 series Long Outlet with Rib	DEF STAN 59-97/3, VG 95343-6:2009-12
150 series Bottle with Rib - VG	DEF STAN 59-97/3, LEA, VG 95343-6:2009-12, VG 95343 T06 B 006 A
170 series Bottle with Rib	DEF STAN 59-97/3, VG 95343-6:2009-12
190 series Bottle with external Ribs	DEF STAN 59-97/3, VG 95343-6:2009-12
200 series 2-way Outlet - VG	DEF STAN 59-97/3, JN1000T, VG 95343-8:2016-03
300 series 3-way Outlet - VG	DEF STAN 59-97/3, VG 95343-8:2016-03
400 series 4-way Outlet - VG	DEF STAN 59-97/3, VG 95343-8:2016-03
Epoxy adhesive VG 95343	VG 95343

Specifications apply to limited article numbers

### Standards: HellermannTyton Cable Protection

Type	Specifications	UL File NO
Braided Sleeving Helagaine HEGP	DIN EN 45545-2 (02/2016), DIN EN 45545-2 (08/2013)	
Self-Closing Sleeving Helagaine Twist-In-FR	CEN/TS 45545-2:2009-07, DIN EN 45545-2:2009, NF F 16-101, UL 1441	E197993

Specifications apply to limited article numbers

### Standards: HellermannTyton Wire Connectors – HelaCon Plus Mini

HCPM2	2006/65/EC, ANSI/UL 486-A, ANSI/UL 486-B, ANSI/UL 486-C, cULus, EN 60998-2-2:2004, EN 60998-2-2:201, ENEC
HCPM3	
HCPM4	
HCPM5	
HCPM6	
HCPM-8	

Specifications apply to limited article numbers

### Standards: HellermannTyton Non-Shrinkable Tubing

Type	Specifications
Helsyn H	BS-4G-198 Part 1 Type 1, DEF STAN 59-15 D2

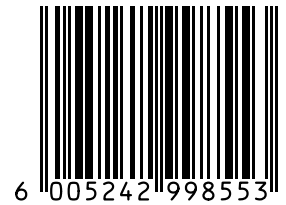
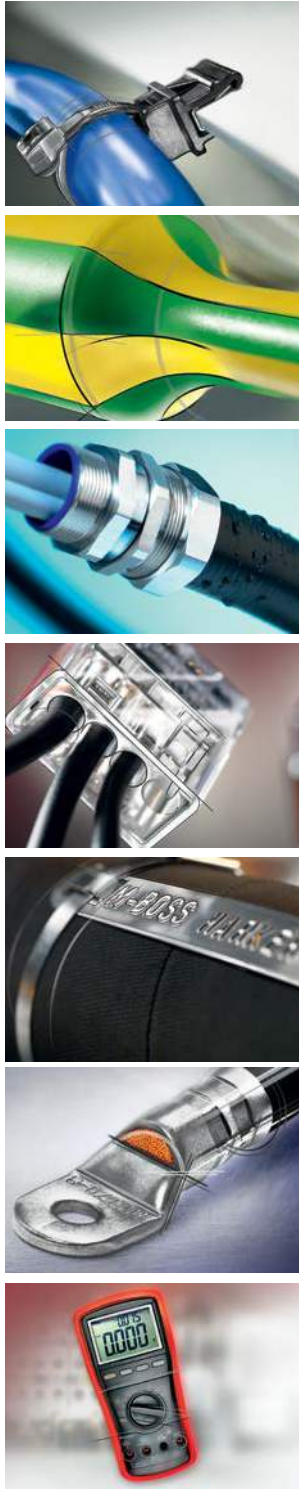
Specifications apply to limited article numbers

### Standards: HellermannTyton Identification Systems

Type	Specifications
CRADLE RFID	Article 41 of Directive 2014/34/EU, EN 50303:2000, EN 60079-0:2012, EN 60079-11:2012
IT Ties	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAGE Code 53421, CAN/CSA-C22.2 no. 62275
HEXTAG RFID PA66	Article 41 of Directive 2014/34/EU, EN 60079-0:2012, EN 60079-11:2012
M-BOSS Compact	2006/42/EG, EN 60204-1:2006, EN ISO 12100:2010
M-BOSS Compact Organiser	
MCTRFID Ties PA66MP	Article 41 of Directive 2014/34/EU, EN 50303:2000, EN 60079-0:2012, EN 60079-11:2012
RFID Nylon Ties	Article 41 of Directive 2014/34/EU, EN 50303:2000, EN 60079-0:2012, EN 60079-11:2012
TAGDR	MIL-STD-202G Method 215K, NF F 00-608 (12/1995), SAE - AS81531
TAGHT	MIL-STD-202G Method 215K, SAE - AS81531
TAGPU	MIL-STD-202G Method 215K, SAE - AS81531
TAGUL	SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AS81531, UL 224 125 °C 600V VW-1
TIPTAG Rail	EN 45545-2:2013
TLFX DS - 2:1	ASTM E 662, BS-6853:1999, BS-EN ISO 4589-2, DIN 53438-3: 1984, DIN 54837 (12/2007), DIN 5510-2, EN 45545-2:2013, EN ISO 11925-2: 2010, NF F 16-101, UNI CEI 11170-3
TULT DS - 3:1	ANSI/UL 224, MIL-STD-202G Method 215K
Thermal Transfer Ribbons Adhesive Labels	ANSI/UL 969
TrakMark DS	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
TrakMark Accessories	CEN
TT430 Printer	ANSI/NFPA 70 article 645, ANSI/NFPA 75, ANSI/UL 60950-1, ANSI/UL 60950-21, ANSI/UL 60950-22, ANSI/UL 60950-23, CE 2014/35/EU, EN 55022:2011-12, EN 55024:2011-09, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, FCC eCFR 47 FCC part 15 - subpart B, limit class A, ICES-033:2004 Issue 4, limit class A
TT430 Accessories	CEN

Specifications apply to limited article numbers





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