



More space for efficient electrical panel building

Cable management solutions made by HellermannTyton





MADE FOR REAL 

Your efficiency is our goal.

Development and production expertise

Time is money, especially when engineering control panels. For many years we have been focusing on fast and easy installation, one of the reasons our experience is so crucial in this area. Our cable ducts and cable protection systems are designed on an industry-specific basis with maximum practical feasibility. Tested in a variety of industries for decades, we offer tailor-made solutions for panel building.



**Are you looking for a specific solution?
Call your field sales representative or
our hotline +49 4122 701-0**

MADE FOR REAL[®]

Innovative space-savers for professionals.



Cable Protection Systems
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Identification Systems
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Insulation
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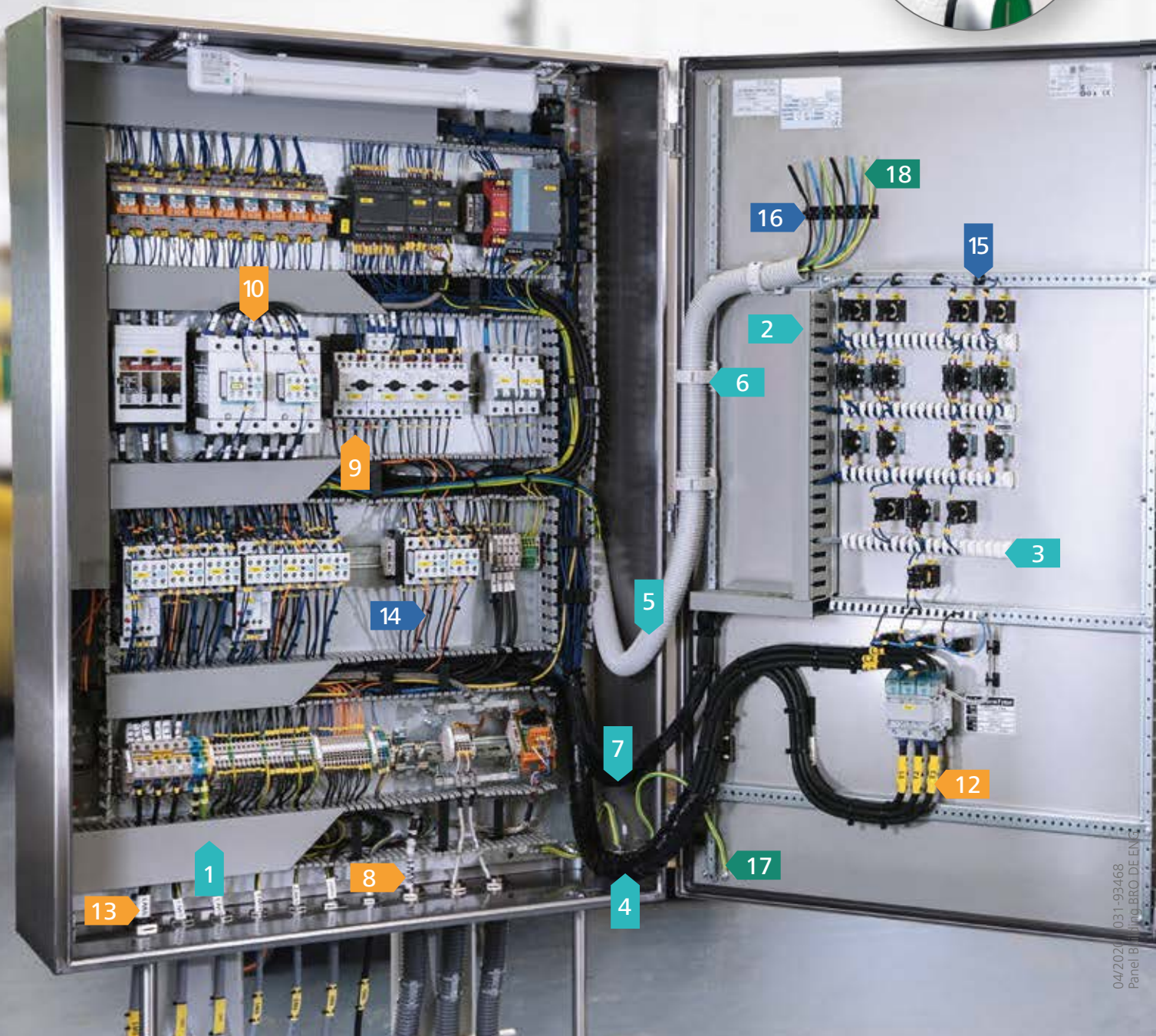


Appendix
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MADE FOR REAL[®]

Details make the difference.



Working efficiently in the tightest of spaces and implementing powerful designs – it's not rocket science, it's working smart. Working with the cable management system from HellermannTyton creates great new opportunities for your daily routine. Our product solutions are thought through in every detail.

Cable protection

1	HelaDuct HTWD-PN	Wiring ducts for cables with small diameters. Remove the fins safely and easily using the perforated breakage points. Particularly narrow ribs and slots.	page 10
2	HelaDuct HTWD-PW	Wiring ducts for cables with larger diameters.	page 12
3	HelaDuct Flex	Flexible cable harnesses for clarity in line management, even at steep inclines.	page 24
4	Helawrap HWPP	The ideal solution for bundling and protecting cables and lines.	page 32
5	IWS Polyethylene	IWS corrugated flexible tubings are used to route and protect wires in control panels.	page 36
6	CTCC IWS	Corrugated tubing holders are used in the control cabinet for fastening and guiding.	page 37
7	Helagaine HEGP	The braided sleeving provides abrasion protection for different appliances.	page 38

Labelling systems

8	Helatag 1209	Resistant labelling with excellent protection against humidity and mechanical abrasion thanks to protective laminate.	page 48
9	WIC	Fast and easy labelling. Also suitable for retrofitting.	page 50
10	IT cable ties	For easily combined labelling and bundling.	page 58
11	Panel labels	Low-cost alternative to engraved plastic signs. No additional sign holder necessary and easy to print on site.	page 60, 61
12	TAGPU	Cable markers consist of a robust and flexible halogen free polyurethane material suited for harsh environments.	page 47
13	TCGT	Printable heat shrink marker material for insulation and identification of cables and wires.	page 44

Cable tie and fixing systems

14	T-Serie	T-Series cable ties for bundling and securing of cables, pipes and hoses. High tensile strength with very low insertion force and ergonomic bent tail offers quick and simple installation.	page 73
15	T30RFT5	Inside serrated cable tie made out of heat stabilized material, the fir tree enables variable fastening (different sheet thickness).	page 74
16	SolidTack	Mount with very high adhesive strength – even on low energy surface materials.	page 79

Insulating products

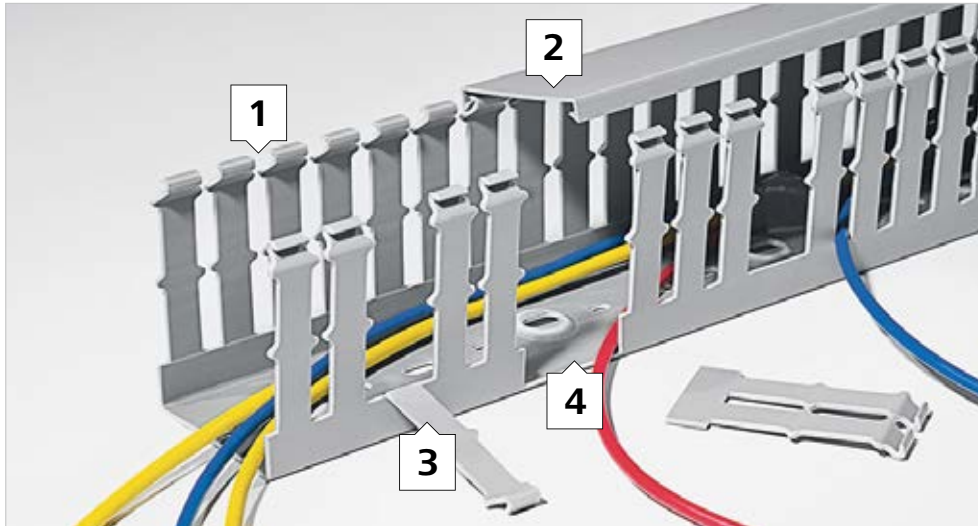
17	HIS-3	For effective insulation and colour-coding.	page 88
18	TF31	It is used for protection, insulation and identification wires, cables and light duty harnesses.	page 90

For more information on panel building visit www.HellermannTyton.com/panel-bro20

Wiring ducts

Optimum protection for cables and installers

The HTWD-PW/PN wiring ducts are used in panels and switching stations and are very well suited for cables with small cross sections.



- 1** The smooth, burr-free edges protect both the installer and the cables.
- 3** Burr-free removal of ribs using perforated break points.
- 2** The cover is firmly in place, even under challenging conditions such as vertical installation and vibration. Flush cover on the side for optimum use of space. The wiring ducts must therefore also be mounted close to the cover.
- 4** Wall segments can also be removed burr-free using perforated break points.



Wiring Ducts

Rigid PVC Wiring Ducts		
HelaDuct HTWD-PN for small-diameter wires (metric sizes)		10, 11
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Flexible Cable Support

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Wiring Ducts Accessories

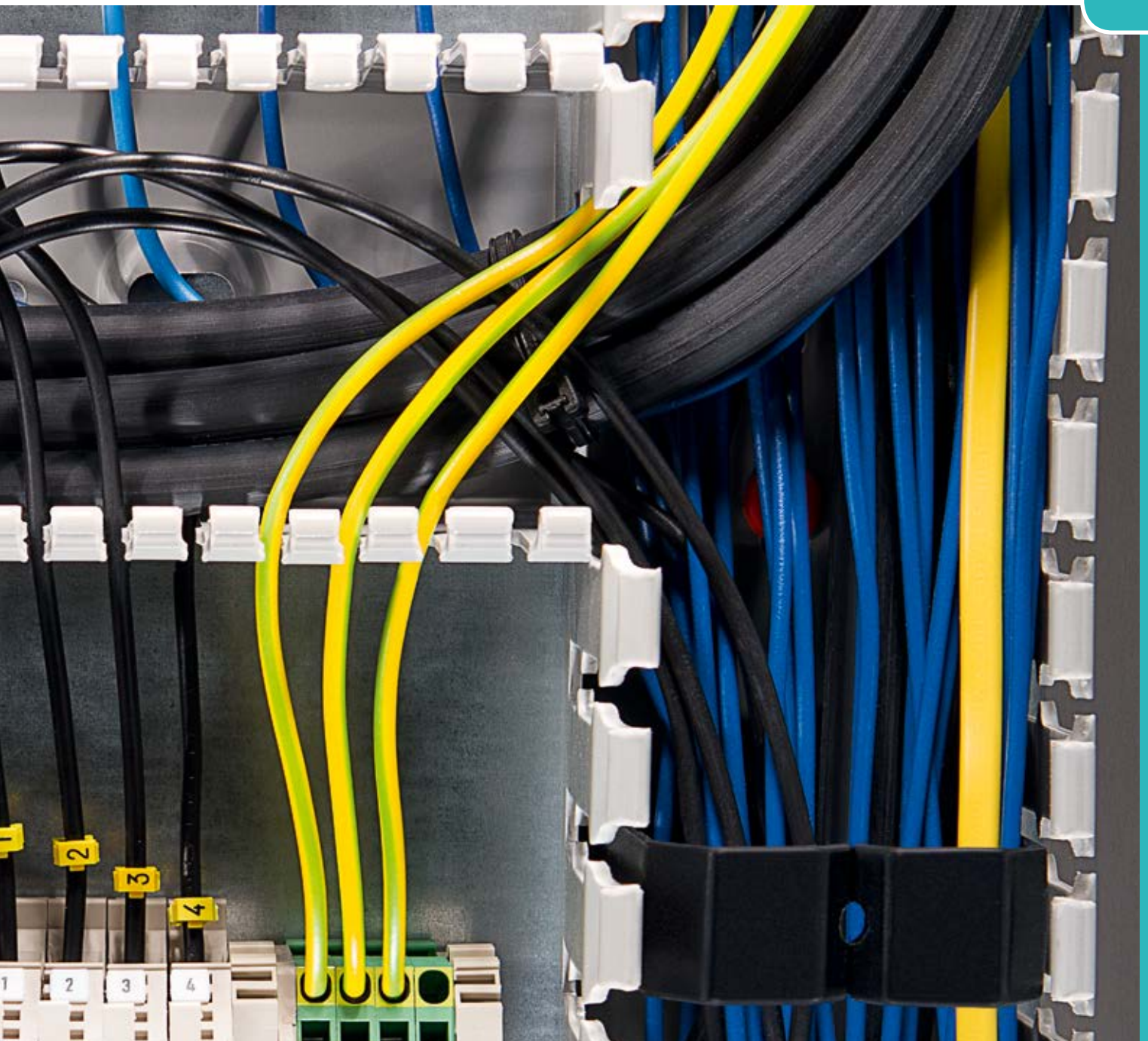
For mounting prior to wiring	HelaDuct HTWD-BWR Base Wire Retainers	25
For mounting to duct fingers	HelaDuct HTWD-NFWR and HTWD-WFWR Wire Retainers	26
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For mounting ducts to DIN rails	HelaDuct HTWD-RB Rail Mounting Blocks	29

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Protective Tubing and Spiral Binding

Helwrap Cable Cover and Accessories	
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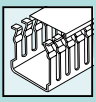
Spiral-Reinforced Conduit Systems

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FG IP54 fitting, swivel thread	39
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Rigid PVC wiring ducts

HelaDuct HTWD-PN for small-diameter wires (metric sizes)

HelaDuct HTWD-PN wiring ducts are used to route and protect wires in control panels and switching systems.

Features and benefits

- Narrow slots suitable for small-diameter wires
- Smooth, burr-free edges protect installers from injury and wires from damage
- Fingers can be removed with no sharp edges at pre-notched snap-off points
- Further pre-notched snap-off point at base of sidewall allow cutting out and removing sections of sidewall with no sharp edges
- Raised mounting points for easily and securely fastening wire retainers and other accessories prior to cabling
- Wire retainers and accessories leave no protruding parts below surface of duct
- Duct covers are easy to mount and remove, yet hold securely even in a vertical position and under vibration
- Cover is flush with side of duct, allowing for tight, contiguous placement of ducts
- Additional retainer nub on fingers on ducts height 80 and above to prevent cables from slipping
- Base perforation according to DIN EN 50085

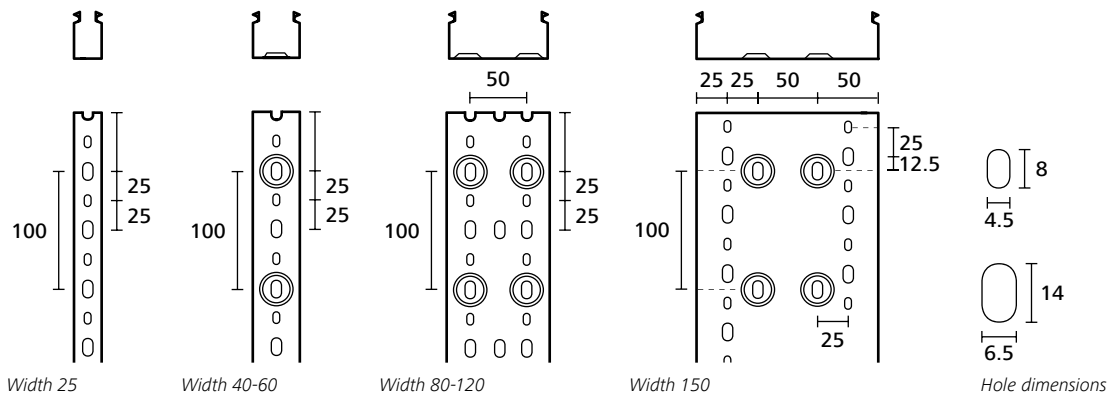


HelaDuct HTWD-PN - narrow finger wiring duct.

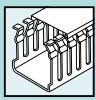
MATERIAL	Polyvinylchloride (PVC)
Colour	Grey (GY)
Length (L)	2 m
Operating Temperature	-5 °C to +65 °C
Flammability	UL 94 V0



Nominal Dimensions HTWD-PN/ HTWD-PW

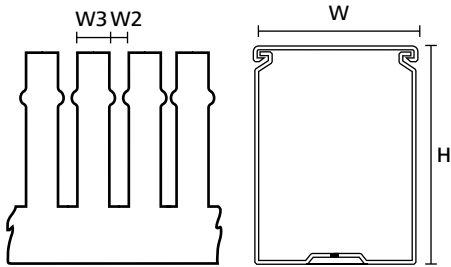


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Rigid PVC wiring ducts

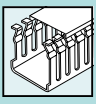
Heladuct HTWD-PN for small-diameter wires (metric sizes)



Wiring duct HTWD-PN

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Article-No.
HTWD-PN-25X40	25	40	4	6	72 m	184-10068
HTWD-PN-25X60	25	60	4	6	48 m	184-10138
HTWD-PN-25X80	25	80	4	6	48 m	184-10198
HTWD-PN-40X40	40	40	4	6	40 m	184-10078
HTWD-PN-40X60	40	60	4	6	36 m	184-10148
HTWD-PN-40X80	40	80	4	6	32 m	184-10208
HTWD-PN-40X100	40	100	4	6	16 m	184-10258
HTWD-PN-60X40	60	40	4	6	24 m	184-10088
HTWD-PN-60X60	60	60	4	6	24 m	184-10158
HTWD-PN-60X80	60	80	4	6	24 m	184-10218
HTWD-PN-60X100	60	100	4	6	8 m	184-10268
HTWD-PN-80X40	80	40	4	6	24 m	184-10098
HTWD-PN-80X60	80	60	4	6	24 m	184-10168
HTWD-PN-80X80	80	80	4	6	24 m	184-10228
HTWD-PN-80X100	80	100	4	6	8 m	184-10329
HTWD-PN-100X40	100	40	4	6	16 m	184-10108
HTWD-PN-100X60	100	60	4	6	16 m	184-10178
HTWD-PN-100X80	100	80	4	6	16 m	184-10238
HTWD-PN-100X100	100	100	4	6	8 m	184-10278
HTWD-PN-120X60	120	60	4	6	16 m	184-10188
HTWD-PN-120X80	120	80	4	6	16 m	184-10248

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Rigid PVC wiring ducts

HelaDuct HTWD-PW for large-diameter wires (metric sizes)

HelaDuct HTWD-PW wiring ducts are used to route and protect wires in control panels and switching systems.

Features and benefits

- Wide slots suitable for large-diameter wires
- Wide fingers provide additional wire support
- Smooth, burr-free edges protect installers from injury and wires from damage
- Fingers can be removed with no sharp edges at pre-notched snap-off points
- Further pre-notched snap-off point at base of sidewall allow cutting out and removing sections of sidewall with no sharp edges
- Raised mounting points for easily, quickly and securely fastening wire retainers and other accessories prior to cabling
- Wire retainers and accessories leave no protruding parts below surface of duct
- Duct covers are easy to mount and remove, yet hold securely even in a vertical position and under vibration
- Cover is flush with side of duct, allowing for tight, contiguous placement of ducts
- Additional retainer nub on fingers on ducts height 80 and above to prevent cables from slipping
- Base perforation according to DIN EN 50085

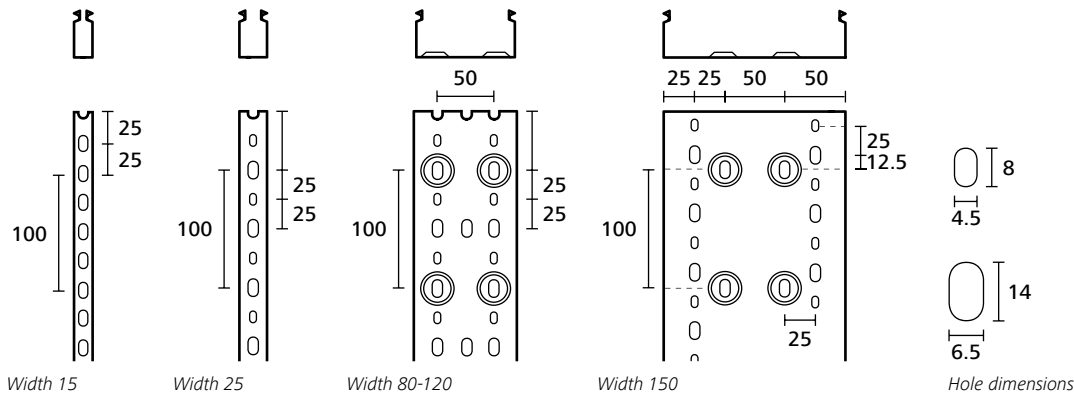


HelaDuct HTWD-PW - wide finger wiring duct.

MATERIAL	Polyvinylchloride (PVC)
Colour	Grey (GY)
Length (L)	2 m
Operating Temperature	-5 °C to +65 °C
Flammability	UL 94 V0

RoHS ✓

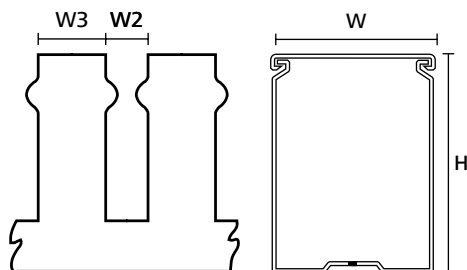
Nominal Dimensions HTWD-PN/ HTWD-PW





Rigid PVC wiring ducts

Heladuct HTWD-PW for large-diameter wires (metric sizes)



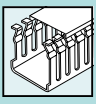
Wiring duct HTWD-PW/ HTWD-PWB

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Article-No.
HTWD-PW-15X18	15	18	5	7.5	72 m	181-10018
HTWD-PW-15X30	15	30	5	7.5	64 m	181-10038
HTWD-PW-15X40	15	40	5	7.5	48 m	181-10058
HTWD-PW-15X60	15	60	5	7.5	32 m	181-10118
HTWD-PW-25X30	25	30	5	7.5	72 m	181-10028
HTWD-PW-25X40	25	40	8	12	72 m	181-10068
HTWD-PW-25X60	25	60	8	12	48 m	181-10138
HTWD-PW-25X80	25	80	8	12	48 m	181-10198
HTWD-PW-25X100	25	100	8	12	16 m	181-10328
HTWD-PW-40X40	40	40	8	12	40 m	181-10078
HTWD-PW-40X60	40	60	8	12	36 m	181-10148
HTWD-PW-40X80	40	80	8	12	32 m	181-10208
HTWD-PW-40X100	40	100	8	12	16 m	181-10258
HTWD-PW-60X40	60	40	8	12	24 m	181-10088
HTWD-PW-60X60	60	60	8	12	24 m	181-10158
HTWD-PW-60X80	60	80	8	12	24 m	181-10218
HTWD-PW-60X100	60	100	8	12	8 m	181-10268
HTWD-PW-80X40	80	40	8	12	24 m	181-10098
HTWD-PW-80X60	80	60	8	12	24 m	181-10168
HTWD-PW-80X80	80	80	8	12	24 m	181-10228
HTWD-PW-80X100	80	100	8	12	8 m	181-10329
HTWD-PW-100X40	100	40	8	12	16 m	181-10108
HTWD-PW-100X60	100	60	8	12	16 m	181-10178
HTWD-PW-100X80	100	80	8	12	16 m	181-10238
HTWD-PW-100X100	100	100	8	12	8 m	181-10278
HTWD-PW-120X60	120	60	8	12	16 m	181-10188
HTWD-PW-120X80	120	80	8	12	16 m	181-10248
HTWD-PW-150X100	150	100	8	12	8 m	181-10288

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



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Rigid PVC wiring ducts

HelaDuct HTWD-PD (DIN-sizes)

HelaDuct HTWD-PD wiring ducts are used to route and protect wires in control panels and switching systems.

Features and benefits

- Narrow slots suitable for small-diameter wires
- Smooth, burr-free edges protect installers from injury and wires from damage
- Fingers can be removed with no sharp edges at pre-notched snap-off points
- Further pre-notched snap-off point at base of sidewall allow cutting out and removing sections of sidewall with no sharp edges
- Duct covers are easy to mount and remove, yet hold securely even in a vertical position and under vibration
- Cover is flush with side of duct, allowing for tight, contiguous placement of ducts
- Base perforation according to DIN EN 50085

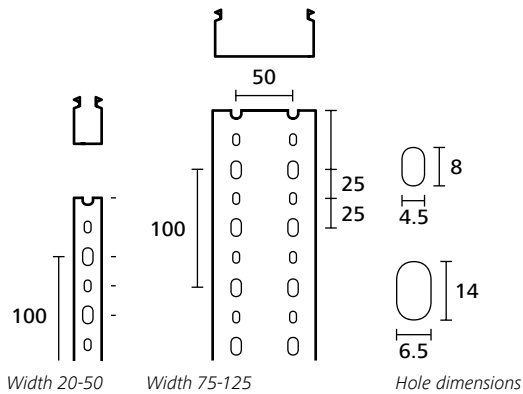


HelaDuct HTWD-PD - DIN sized wiring duct.

MATERIAL	Polyvinylchloride (PVC)
Colour	Grey (GY)
Length (L)	2 m
Operating Temperature	-5 °C to +60 °C
Flammability	UL 94 V0



Nominal Dimensions HTWD-PD DIN

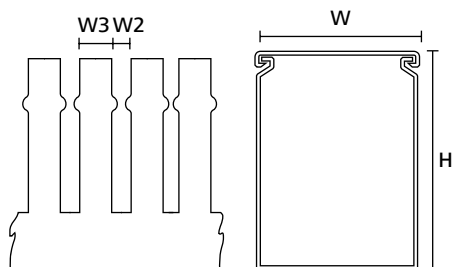


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Rigid PVC wiring ducts

Heladuct HTWD-PD (DIN-sizes)



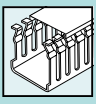
Wiring duct HTWD-PD

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Article-No.
HTWD-PD-20X20	20	20	4	6	64 m	185-42020
HTWD-PD-20X37.5	20	37.5	4	6	32 m	185-42037
HTWD-PD-20X50	20	50	4	6	20 m	185-42050
HTWD-PD-25X25	25	25	5	7.5	48 m	185-42525
HTWD-PD-25X50	25	50	5	7.5	18 m	185-42550
HTWD-PD-25X75	25	75	5	7.5	32 m	185-42575
HTWD-PD-37.5X25	37.5	25	5	7.5	64 m	185-43725
HTWD-PD-37.5X37.5	37.5	37.5	5	7.5	32 m	185-43737
HTWD-PD-37.5X50	37.5	50	5	7.5	40 m	185-43750
HTWD-PD-37.5X75	37.5	75	5	7.5	40 m	185-43775
HTWD-PD-50X50	50	50	5	7.5	48 m	185-45050
HTWD-PD-50X75	50	75	5	7.5	20 m	185-45075
HTWD-PD-50X100	50	100	5	7.5	24 m	185-45010
HTWD-PD-75X50	75	50	5	7.5	20 m	185-47550
HTWD-PD-75X75	75	75	5	7.5	16 m	185-47575
HTWD-PD-75X100	75	100	5	7.5	16 m	185-47510
HTWD-PD-100X50	100	50	5	7.5	24 m	185-41050
HTWD-PD-100X75	100	75	5	7.5	16 m	185-41075
HTWD-PD-100X100	100	100	5	7.5	8 m	185-41010
HTWD-PD-125X50	125	50	5	7.5	18 m	185-41250
HTWD-PD-125X75	125	75	5	7.5	12 m	185-41275

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Halogen-free wiring ducts

HelaDuct HTWD-HF (metric sizes)

HelaDuct HTWD-HF wiring ducts are used to route and protect wires in control panels and switching systems where there are high demands on personal or material safety in case of fire, such as in public transport, tunnels, data-processing centers or public buildings.

Features and benefits

- Excellent fire-safety characteristics according to UL94 und EN 45545-2
- Narrow slots suitable for small-diameter wires
- Smooth, burr-free edges protect installers from injury and wires from damage
- Fingers can be removed with no sharp edges at pre-notched snap-off points
- Further pre-notched snap-off point at base of sidewall allow cutting out and removing sections of sidewall with no sharp edges
- Duct covers hold securely even in a vertical position and under vibration
- Cover is flush with side of duct, allowing for tight, contiguous placement of duct
- Base perforation according to DIN EN 50085

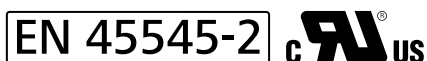
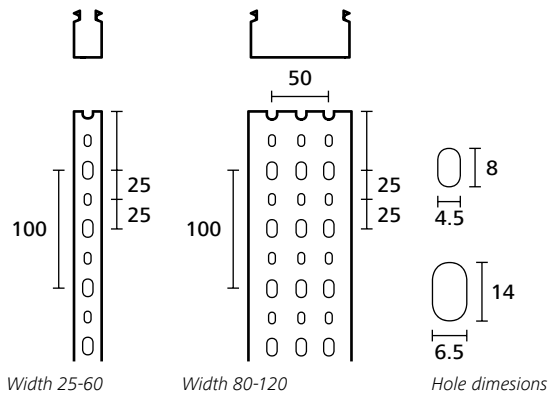


HelaDuct HTWD-HF - halogenfree wiring duct.

MATERIAL	Acrylonitrile Butadiene Styrene alloyed with Polycarbonate (PC/ABS)
Colour	Grey (GY)
Length (L)	2 m
Operating Temperature	-25 °C to +90 °C
Flammability	UL 94 V0



Hole pattern acc. to DIN EN 50085

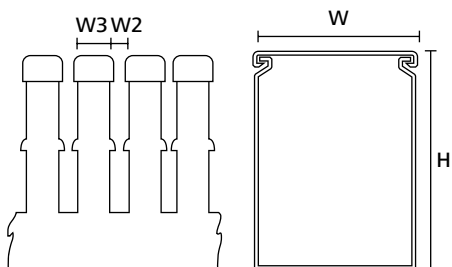


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Halogen-free wiring ducts

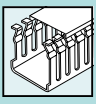
HelaDuct HTWD-HF (metric sizes)



HelaDuct Wiring ducts HTWD-HF

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Article-No.
HTWD-HF-25X25	25	25	6.0	6.5	50 m	183-22525
HTWD-HF-25X40	25	40	6.0	6.5	48 m	183-22540
HTWD-HF-25X60	25	60	6.0	6.5	60 m	183-25060
HTWD-HF-25X80	25	80	6.0	6.5	20 m	183-22580
HTWD-HF-40X25	40	25	6.0	6.5	48 m	183-24025
HTWD-HF-40X40	40	40	6.0	6.5	50 m	183-24040
HTWD-HF-40X60	40	60	6.0	6.5	40 m	183-24060
HTWD-HF-40X80	40	80	6	6.5	20 m	183-24080
HTWD-HF-40x100	40	100	6.0	6.5	20 m	183-24100
HTWD-HF-60X40	60	40	6	6.5	40 m	183-26040
HTWD-HF-60X60	60	60	6.0	6.5	24 m	183-26060
HTWD-HF-60X80	60	80	6.0	6.5	20 m	183-26080
HTWD-HF-60X100	60	100	6.0	6.5	12 m	183-26010
HTWD-HF-80X40	80	40	6	6.5	20 m	183-28040
HTWD-HF-80X60	80	60	6.0	6.5	20 m	183-28060
HTWD-HF-80X80	80	80	6.0	6.5	12 m	183-28080
HTWD-HF-80X100	80	100	6.0	6.5	10 m	183-28010
HTWD-HF-100X40	100	40	6.0	6.5	20 m	183-22040
HTWD-HF-100X60	100	60	6	6.5	16 m	183-21060
HTWD-HF-100X80	100	80	6.0	6.5	12 m	183-21080
HTWD-HF-100X100	100	100	6.0	6.5	8 m	183-21010
HTWD-HF-120X60	120	60	6	6.5	12 m	183-21260
HTWD-HF-120X80	120	80	6	6.5	16 m	183-21280

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



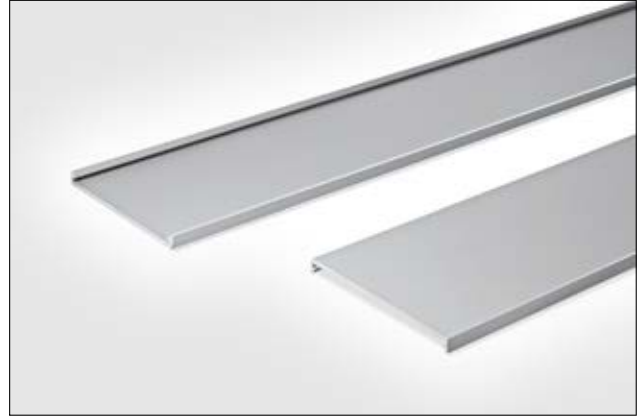
Halogen-Free Wiring Ducts Covers

HelaDuct HTWD-HFCOV Covers for metric-size wiring ducts

HelaDuct HTWD-HFCOV duct covers are used with the HTWD-HF wiring ducts.

Features and benefits

- Easily mounted and removed
- Secure hold
- Flush with side of duct, allowing for tight, contiguous placement of ducts



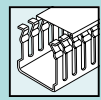
HelaDuct HTWD-HFCOV duct covers for the HTWD-HF wiring ducts.

TYPE	Width (W)	Pack Cont.	Article-No.
HTWD-HFCOV-25	25	48 m	183-30309
HTWD-HFCOV-40	40	28 m	183-30409
HTWD-HFCOV-60	60	20 m	183-30509
HTWD-HFCOV-80	80	20 m	183-30609
HTWD-HFCOV-100	100	12 m	183-30709
HTWD-HFCOV-120	120	12 m	183-30809

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

MATERIAL	Acrylonitrile Butadiene Styrene alloyed with Polycarbonate (PC/ABS)
Operating Temperature	-25 °C to +90 °C
Flammability	UL 94 V0





Rigid PVC Wiring Ducts

HelaDuct HTWD-PC (DIN-sizes) with circular knockouts for conduits and heavy cables

HelaDuct HTWD-PC wiring ducts are typically used in applications requiring branching connections with corrugated or rigid conduits, such as lifts.

Features and benefits

- Circular knockouts of 18 mm and 23 mm diameter
- Duct covers are easy to mount and remove, yet hold securely even in a vertical position and under vibration
- Cover is flush with side of duct
- Base perforation according to DIN EN 50085

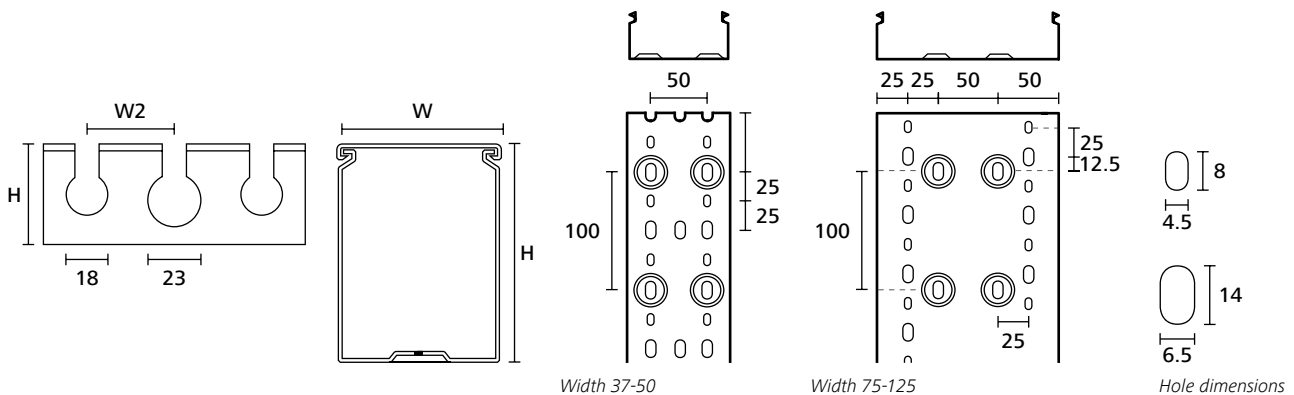


HelaDuct HTWD-PC are typically used in lift shafts and wherever cables are branched off with corrugated or rigid conduits.

MATERIAL	Polyvinylchloride (PVC)
Colour	Grey (GY)
Length (L)	2 m
Operating Temperature	-5 °C to +65 °C
Flammability	UL 94 V0

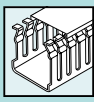
RoHS ✓

Nominal Dimensions HTWD-PC DIN



TYPE	Width (W)	Height (H)	Width (W2)	Pack Cont.	Article-No.
HTWD-PC-37.5X50	37.5	50	50	24 m	186-10188
HTWD-PC-50X50	50	50	50	24 m	186-10198
HTWD-PC-75X50	75	50	50	24 m	186-10218
HTWD-PC-100X50	100	50	50	16 m	186-10238
HTWD-PC-125X50	125	50	50	16 m	186-10248

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



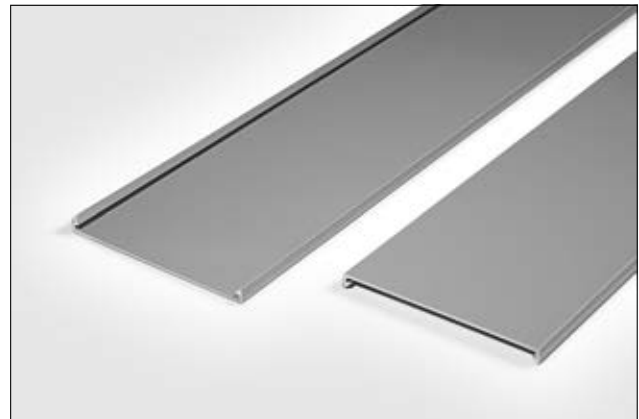
Rigid PVC Wiring Duct Covers

HelaDuct HTWD-PCOVM covers for metric-size wiring ducts

HelaDuct HTWD-PCOVM duct covers are used with the HTWD-PN and HTWD-PW metric-sized wiring ducts.

Features and benefits

- Easily mounted and removed
- Secure hold
- Flush with side of duct, allowing for tight, contiguous placement of ducts



HelaDuct HTWD-PCOVM covers for HTWD-PN and HTWD-PW metric-size ducts.

TYPE	Width (W)	Pack Cont.	Article-No.
HTWD-PCOVM-25	25	50 m	181-30208
HTWD-PCOVM-40	40	50 m	181-30308
HTWD-PCOVM-60	60	50 m	181-30408
HTWD-PCOVM-80	80	50 m	181-30508
HTWD-PCOVM-100	100	40 m	181-30608
HTWD-PCOVM-120	120	40 m	181-30708
HTWD-PCOVM-150	150	40 m	181-30808

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

MATERIAL	Polyvinylchloride (PVC)
Colour	Grey (GY)
Length (L)	2 m
Operating Temperature	-5 °C to +65 °C
Flammability	UL 94 V0

RoHS ✓

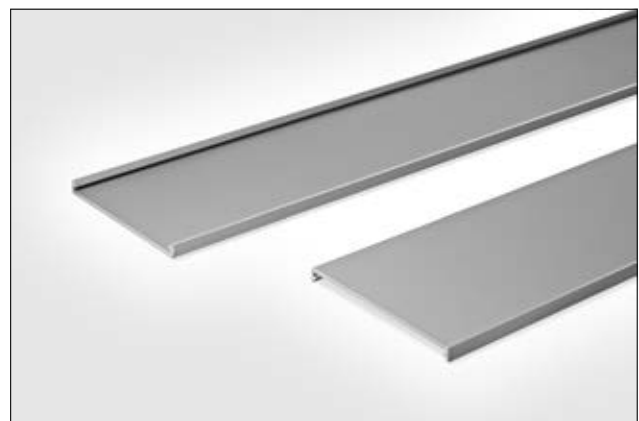
Rigid PVC Wiring Duct Covers

HelaDuct HTWD-PCOVD covers for DIN-size wiring ducts

HelaDuct HTWD-PCOVD duct covers are used with the HTWD-PD DIN-sized wiring ducts.

Features and benefits

- Easily mounted and removed
- Secure hold
- Flush with side of duct, allowing for tight, contiguous placement of ducts



HelaDuct HTWD-PCOVD covers for HTWD-PD DIN-size ducts.

TYPE	Width (W)	Pack Cont.	Article-No.
HTWD-PCOVD-20	20	120 m	181-30109
HTWD-PCOVD-37.5	37.5	100 m	181-30209
HTWD-PCOVD-50	50	80 m	181-30309
HTWD-PCOVD-75	75	60 m	181-30409
HTWD-PCOVD-100	100	28 m	181-30509
HTWD-PCOVD-125	125	28 m	181-30609

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

MATERIAL	Polyvinylchloride (PVC)
Colour	Grey (GY)
Length (L)	2 m
Operating Temperature	-5 °C to +60 °C
Flammability	UL 94 V0

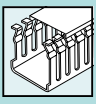
RoHS ✓

The most effective way to do it is to do it.

Just get it done: roll your sleeves up, knuckle down and try it out. This is how we continuously develop new cable management solutions. Take the loop spacer for wind turbines, for example. It not only solves the problem of abrasion on cable sleeves, but also enhances cooling. That's what we call effective.

MADE FOR REAL 





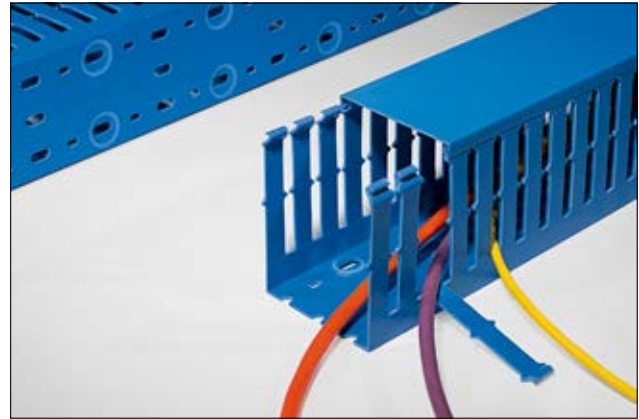
Blue PVC Wiring Ducts

HelaDuct HTWD-PWB Wiring Ducts for intrinsically safe wiring (metric sizes)

HelaDuct HTWD-PWB blue wiring ducts are used to identify intrinsically safe wiring, for instance in chemical plants or anywhere where explosive gases may be present.

Features and benefits

- Blue colour to identify intrinsically safe wiring
- Wide slots suitable for large-diameter wires
- Wide fingers provide additional wire support
- Smooth, burr-free edges protect installers from injury and wires from damage
- Fingers can be removed with no sharp edges at pre-notched snap-off points
- Further pre-notched snap-off point at base of sidewall allow cutting out and removing sections of sidewall with no sharp edges
- Raised mounting points for easily, quickly and securely fastening wire retainers and other accessories prior to cabling
- Wire retainers and accessories leave no protruding parts below surface of duct
- Duct covers are easy to mount and remove, yet hold securely even in a vertical position and under vibration
- Cover is flush with side of duct, allowing for tight, contiguous placement of ducts
- Additional retainer nub on fingers to prevent cables from slipping
- Base perforation according to DIN EN 50085

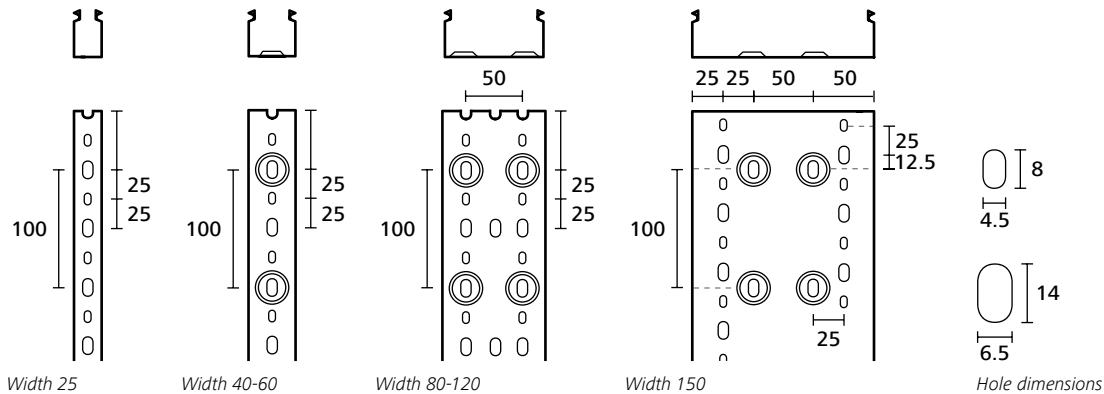


HelaDuct HTWD-PWB blue ducts to identify intrinsically safe wiring.

MATERIAL	Polyvinylchloride (PVC)
Colour	Blue (BU)
Length (L)	2 m
Operating Temperature	-5 °C to +65 °C
Flammability	UL 94 V0



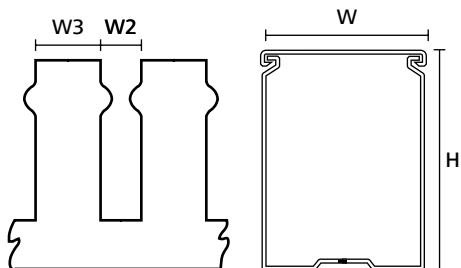
Nominal dimensions HTWD-PWB





Blue PVC Wiring Ducts

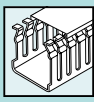
HelaDuct HTWD-PWB Wiring Ducts for intrinsically safe wiring (metric sizes)



Wiring duct HTWD-PW/ HTWD-PWB

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Article-No.
HTWD-PWB-25X30	25	30	5	7.5	72 m	181-10027
HTWD-PWB-25X60	25	60	8	12	48 m	181-10137
HTWD-PWB-25X80	25	80	8	12	48 m	181-10197
HTWD-PWB-25X100	25	100	5	7.5	16 m	181-10327
HTWD-PWB-40X40	40	40	8	12	40 m	181-10077
HTWD-PWB-40X60	40	60	8	12	36 m	181-10147
HTWD-PWB-40X80	40	80	8	12	32 m	181-10207
HTWD-PWB-40X100	40	100	8	12	16 m	181-10257
HTWD-PWB-60X40	60	40	8	12	24 m	181-10087
HTWD-PWB-60X60	60	60	8	12	24 m	181-10157
HTWD-PWB-60X80	60	80	8	12	24 m	181-10217
HTWD-PWB-60X100	60	100	8	12	8 m	181-10267
HTWD-PWB-80X80	80	80	8	12	24 m	181-10227
HTWD-PWB-80X100	80	100	8	12	8 m	181-10347
HTWD-PWB-100X80	100	80	8	12	16 m	181-10237
HTWD-PWB-100X100	100	100	8	12	8 m	181-10277
HTWD-PWB-150X100	150	100	8	12	8 m	181-10287

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Flexible cable support

HelaDuct Flex screwable

HelaDuct flexible cable supports are commonly used in switching cabinets. They are also used in the furniture industry, where cables need to be routed rapidly and attractively.

Features and benefits

- Space-saving wiring system
- Highly flexible, can be installed at angles of 90° and higher
- Cable clearly open to view
- Rapid mounting with screws or adhesive strip with high-quality foam bonding layer



HelaDuct Flex can be installed at angles above 90°.

MATERIAL	Polypropylene (PP)
Operating Temperature	-20 °C to +70 °C, (+80 °C, 200 h)
Flammability	UL 94 V0 (excluding adhesive)



TYPE	Nominal Ø	Fixation Method	No. of Wires		Colour	Pack Cont.	Article-No.	
HelaDuct Flex10	10	Screw Mounting	6 x 1,50 mm ²	4 x 2,50 mm ²	White (WH)	500	100 pcs.	164-11008
HelaDuct Flex20	20	Screw Mounting	22 x 1,50 mm ²	14 x 2,50 mm ²	White (WH)	500	70 pcs.	164-21008
HelaDuct Flex30	30	Screw Mounting	50 x 1,50 mm ²	34 x 2,50 mm ²	White (WH)	500	40 pcs.	164-31008
HelaDuct Flex40	40	Screw Mounting	81 x 2,50 mm ²	60 x 2,50 mm ²	White (WH)	500	24 pcs.	164-41008

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

HelaDuct Flex with Adhesive

MATERIAL	Polypropylene (PP)
Operating Temperature	-20 °C to +70 °C, (+80 °C, 200 h)
Adhesive	Synthetic rubber with base of polyethylene foam
Flammability	UL 94 V0 (excluding adhesive)



TYPE	Nominal Ø	Fixation Method	No. of Wires		Colour	Length (L)	Article-No.
HelaDuct Flex10SK	10	Screw Mounting and Adhesive	6 x 1,50 mm ²	4 x 2,50 mm ²	White (WH)	500	164-11108
HelaDuct Flex20SK	20	Screw Mounting and Adhesive	22 x 1,50 mm ²	14 x 2,50 mm ²	White (WH)	500	164-21108
HelaDuct Flex30SK	30	Screw Mounting and Adhesive	50 x 1,50 mm ²	34 x 2,50 mm ²	White (WH)	500	164-31108
HelaDuct Flex40SK	40	Screw Mounting and Adhesive	81 x 2,50 mm ²	60 x 2,50 mm ²	White (WH)	500	164-41108

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



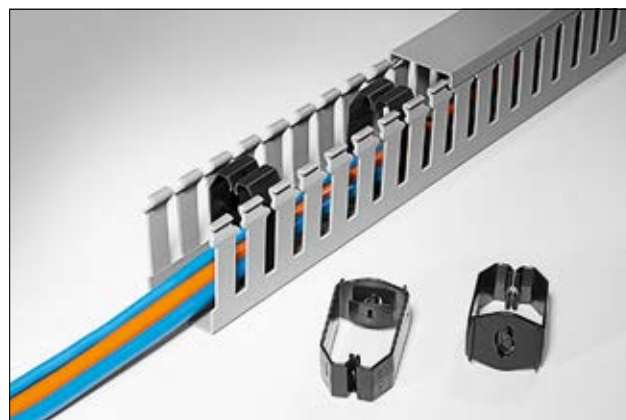
For mounting prior to wiring

HelaDuct HTWD-BWR Base Wire Retainers

HelaDuct Base Wire Retainers HTWD-BWR are anchored securely on the raised mounting points of HTWD-PN and HTWD-PW ducts to allow insertion of wires. Wires are held in place during wiring, for instance in a vertical position or during ceiling installation.

Features and benefits

- Quickly and easily fastened on raised mounting points with a 1/4 turn of a screwdriver
- Wires easily inserted and firmly held in place
- Anchor of retainer remains inside raised mounting point and does not protrude below surface of duct base
- Reduces strain on duct fingers especially at corners and eliminates bulging against sidewall
- Available for all duct sizes of width and height larger than 40
- Fits snugly in duct for minimal loss of installation space

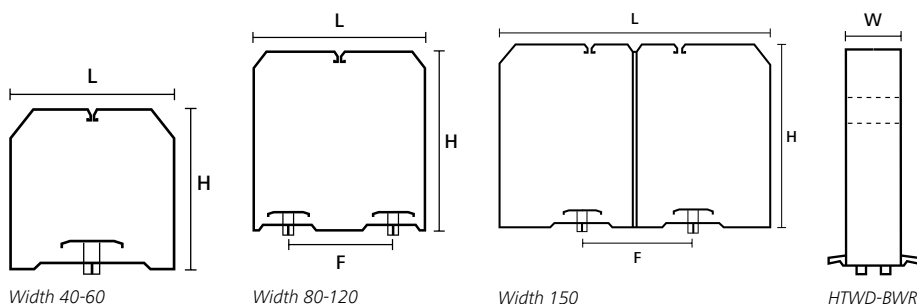


HTWD-BWR wire retainers are easy to mount and hold wires firmly during wiring.

MATERIAL	Acrylonitrile Butadiene Styrene alloyed with Polycarbonate (PC/ABS)
Operating Temperature	-5 °C to +80 °C
Flammability	UL 94 HB

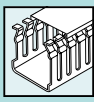


Nominal dimensions HTWD-BWR



TYPE	Length (L)	Height (H)	Width (W)	Fixing Hole Centres (F)	Colour	Pack Cont.	Article-No.
HTWD-BWR-40X80	34	75	20	-	Black (BK)	20 pcs.	181-50480
HTWD-BWR-40X40	35	36	20	-	Black (BK)	40 pcs.	181-50440
HTWD-BWR-40X60	35	56	20	-	Black (BK)	40 pcs.	181-50460
HTWD-BWR-60X60	54	55	20	-	Black (BK)	20 pcs.	181-50660
HTWD-BWR-60X80	54	75	20	-	Black (BK)	20 pcs.	181-50680
HTWD-BWR-60X100	54	95	20	-	Black (BK)	20 pcs.	181-50690
HTWD-BWR-60X40	55	35	20	-	Black (BK)	40 pcs.	181-50640
HTWD-BWR-80X60	74	55	20	50	Black (BK)	10 pcs.	181-50860
HTWD-BWR-80X80	74	74	20	50	Black (BK)	10 pcs.	181-50880
HTWD-BWR-80X100	74	94	20	50	Black (BK)	30 pcs.	181-50890
HTWD-BWR-100X100	93	94	20	50	Black (BK)	5 pcs.	181-51090
HTWD-BWR-100X60	94	55	20	50	Black (BK)	10 pcs.	181-51060
HTWD-BWR-100X80	94	75	20	50	Black (BK)	10 pcs.	181-51080
HTWD-BWR-120X80	113	74	20	50	Black (BK)	10 pcs.	181-51280
HTWD-BWR-120X60	114	54	20	50	Black (BK)	10 pcs.	181-51260
HTWD-BWR-150X100	143	94	20	50	Black (BK)	5 pcs.	181-51590

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



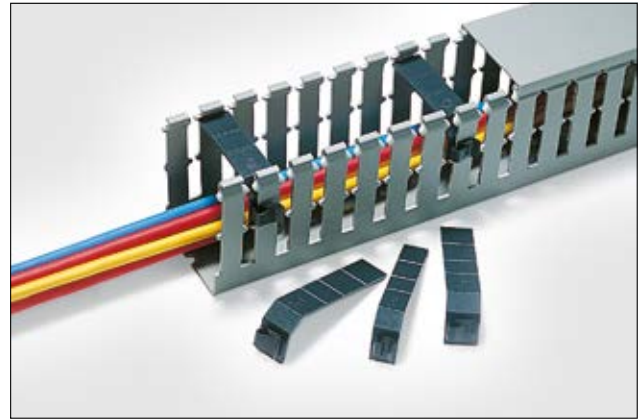
For mounting to duct fingers

HelaDuct HTWD-NFWR and HTWD-WFWR Wire Retainers

The Narrow Finger and Wide Finger Wire Retainers HTWD-NFWR and HTWD-WFWR are easily attached to HelaDuct wiring duct fingers to hold wires securely in place during installation and when the cover is removed.

Features and benefits

- Prevents wires from falling out even when vertical routed
- Easily inserted onto single fingers of duct
- Height can be freely adjusted
- Does not block insertion of wirings into slots
- One retainer for all duct widths: length of retainer can be shortened at break-off points to duct width
- HTWD-NFWR is compatible with HelaDuct HTWD-PN and HTWD-HF (metric sizes)
- HTWD-WFWR is compatible with HelaDuct HTWD-PW ducts

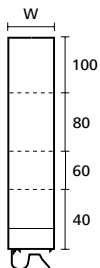


HTWD-NFWR and HTWD-WFWR hold wires in place even when cover is removed.

MATERIAL	Acrylonitrile Butadiene Styrene (ABS)
Operating Temperature	-40 °C to +80 °C
Flammability	UL 94 V0



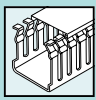
Nominal Dimensions HTWD-NFWR / WFWR



HTWD-NFWR, -WFWR

TYPE	For Wiring Ducts	Width (W)	Colour	Pack Cont.	Article-No.
HTWD-NFWR	HTWD-PN, HTWD-HF	14	Black (BK)	100 pcs.	181-10020
HTWD-WFWR	HTWD-PW	18	Black (BK)	100 pcs.	181-10010

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



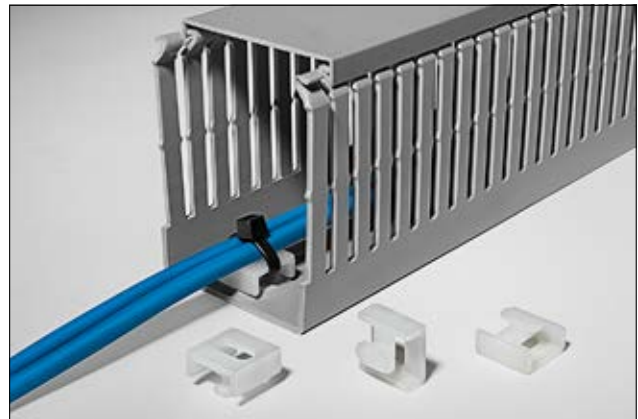
For fixing cable ties to base of ducts

HelaDuct HTWD-CTH cable tie holder

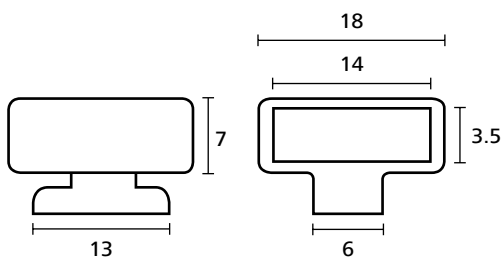
HelaDuct HTWD-CTH is used to anchor a cable tie securely to the base of a duct.

Features and benefits

- Holds all components firmly in place
- Cable tie easily laced through HTWD-CTH
- Anchor of mount remains inside raised mounting point and does not protrude below surface of duct base



HTWD-CTH for fixing cable ties to base of ducts.



HTWD-CTH Mount

HTWD-CTH Mount

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +80 °C
Flammability	UL 94 V2



TYPE	For Wiring Ducts	Colour	Pack Cont.	Article-No.
HTWD-CTH	HTWD-PN, HTWD-PW	White (WH)	50 pcs.	181-45029

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

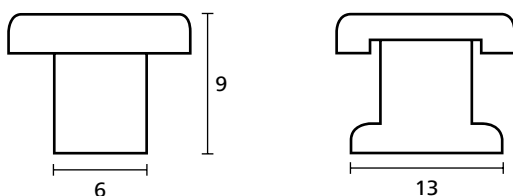
For fastening mounting blocks to base of ducts

HelaDuct HTWD-TL mounting block fastener

The HTWD-TL is used to fix a HTWD-RB rail mounting block to duct or to fix smaller ducts inside larger ones.

Features and benefits

- Holds all components firmly in place
- Anchor of mount remains inside raised mounting point and does not protrude below surface of duct base



HTWD-TL Mount

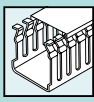
HTWD-TL Mount

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +80 °C
Flammability	UL 94 V2



TYPE	For Wiring Ducts	Colour	Pack Cont.	Article-No.
HTWD-TL	HTWD-PN, HTWD-PW	White (WH)	100 pcs.	181-45019

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



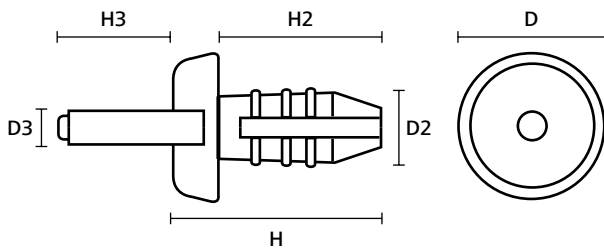
For installing wiring ducts into fixing holes

HelaDuct HTWD-R4 and HTWD-R6 rivets

HTWD-R4 and HTWD-R6 are used to rapidly mount and secure wiring ducts into fixing holes without the use of screws.

Features and benefits

- Very good mechanical properties
- Good resistance to vibration
- Easily and rapidly applied with HTWD-RT4 and HTWD-RT6 rivet tools
- Colour-coded for easy identification for use with rivet tools



HTWD-R4, -R6



HTWD-R4 and HTWD-R6 Rivet.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +80 °C
Flammability	UL 94 V2



TYPE	Height (H)	Height (H2)	Height (H3)	Ø (D)	Ø (D2)	Ø (D3)	Colour	Pack Cont.	Article-No.
HTWD-R4	14.0	12.0	11.5	9.0	5.0	2.0	Blue (BU)	1,000 pcs.	181-42400
HTWD-R6	16.0	12.7	13.0	11.0	6.0	3.0	Black (BK)	250 pcs.	181-42600
	16.0	14.0	13.5	11.0	7.5	4.0	Orange (OG)	500 pcs.	181-42500

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

For inserting R4 and R6 rivets

HelaDuct HTWD-RT4 and HTWD-RT6 Rivet Tools

HelaDuct HTWD-RT4 and HTWD-RT6 tools are used to insert HTWD-R4 and HTWD-R6 rivets into fixing holes and thus mounting ducts without the use of screws.

Features and benefits

- Durable and reliable
- Long aluminum body enables insertion even into very high ducts
- Soft plastic ergonomic handle
- Colour-coded for easy identification for use with correct rivets



Rivet Tools HTWD-RT4, -RT6.

MATERIAL	Metal (MET), Plastic (PL)
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TYPE	For Wiring Duct Rivets	Weight	Colour	Article-No.
HTWD-RT4	R4	0.15 kg	Blue (BU)	181-41542
HTWD-RT6	R6	0.15 kg	Orange (OG)	181-41564

All dimensions in mm. Subject to technical changes.



For mounting ducts to DIN rails

HelaDuct HTWD-RB Rail Mounting Blocks

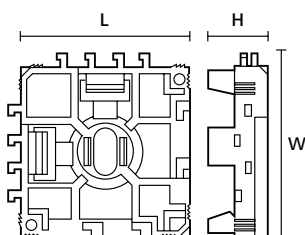
HelaDuct HTWD-RB is used to fix wiring ducts firmly to DIN rail.

Features and benefits

- Easily snapped onto DIN rail
- Rapidly fixed to wiring duct with a HTWD-TL mount
- Assembly direction of wiring duct can be either parallel or perpendicular to DIN rail



HTWD-RB rail mounting blocks und HTWD-TL for mounting ducts to DIN rails.



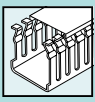
HTWD-RB Rail Mounting Block

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +80 °C
Flammability	UL 94 V2



TYPE	Width (W)	Length (L)	Height (H)	Colour	Pack Cont.	Article-No.
HTWD-RB	50	50	14	Black (BK)	25 pcs.	181-45130

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



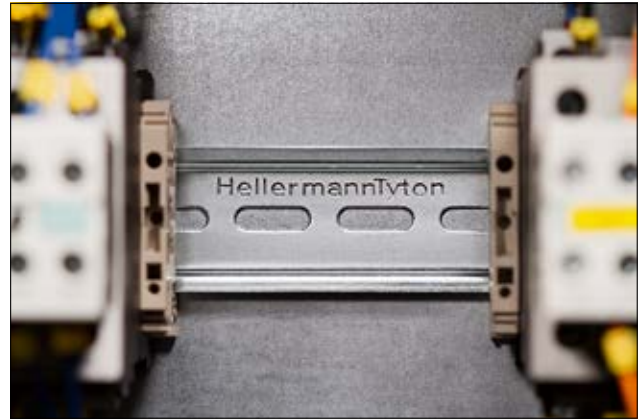
DIN Rail

DIN Rail Mounting

The DELTA mounting rails are commonly installed in control panels for the assembly of electrical components such as switchgear and control-gear and relays.

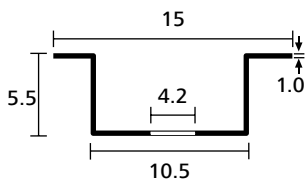
Features and benefits

- Rapid mounting
- High dimensional accuracy compliant with EN 60715 and DIN ISO 9227 NSS/AASS/CASS
- Available with galvanised zinc (white chromate) and strip-galvanised
- Available with slots and without slots

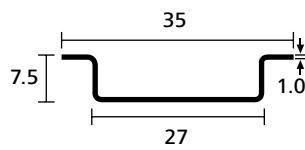


DELTA Mounting Rails.

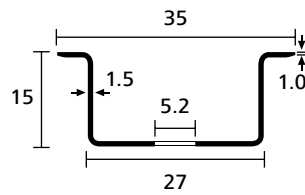
MATERIAL	Steel (ST)
Length (L)	2 m



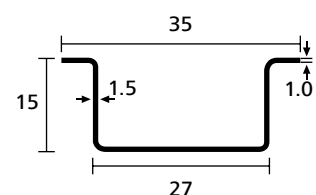
DELTA-2F, with slot



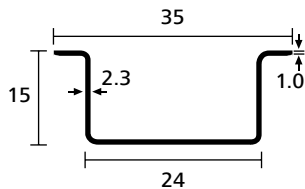
DELTA-3, without slots



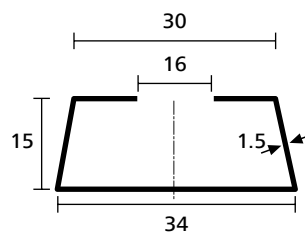
DELTA-3AF, with slots



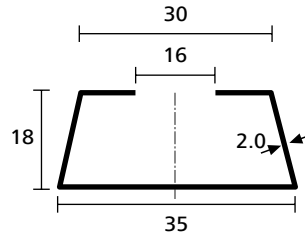
DELTA-3A, without slots



DELTA-3AD, without slots



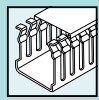
DELTA-5, without slots



DELTA-6, without slots

TYPE	Colour	Punched	Pack Cont.	Article-No.
DELTA-2F	White Chromated (WC)	YES	100 m	181-47230
DELTA-3	White Chromated (WC)	NO	40 m	181-47250
	Zinc-plated Metal (BV)	NO	40 m	181-47051
DELTA-3AF	White Chromated (WC)	YES	20 m	181-47200
	Zinc-plated Metal (BV)	YES	20 m	181-47101
DELTA-3A	White Chromated (WC)	NO	20 m	181-47290
	Zinc-plated Metal (BV)	NO	20 m	181-47091
DELTA-3AD	White Chromated (WC)	NO	20 m	181-47270
DELTA-3F	White Chromated (WC)	YES	40 m	181-47260
	Zinc-plated Metal (BV)	YES	40 m	181-47061
DELTA-3FL	Zinc-plated Metal (BV)	YES	40 m	181-47161
DELTA-5	Zinc-plated Metal (BV)	NO	20 m	181-47121
DELTA-6	Zinc-plated Metal (BV)	NO	20 m	181-47131

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Fastening clip for Delta mounting rails

FM4

The FM4 clip is used to install electrical components which cannot be clicked directly onto a mounting rail.

Features and benefits

- Simple and fast attachment



FM4 Mounting Clip.

TYPE	Colour	Pack Cont.	Article-No.
FM4	White Chromated (WC)	40 pcs.	181-55800

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

MATERIAL	Steel (ST)
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Helawrap cable cover

HWPP for industrial applications

Helawrap is used to bundle and protect cables and wires in the electrical industry, panel building, machine building and many other industrial applications. Helawrap is the time-saving solution for industrial applications.

Features and benefits

- Ideal solution for bundling, protecting and fixing cables
- Quick and effortless to apply
- Good abrasion protection
- Special profile enables branching off cable at any point
- Can be removed and reapplied often
- Available in several colours and sizes
- Handy HAT applicator tool included



Protecting and fixing cables with the Helawrap cable cover and accessory set, for instance in wiring cabinets.

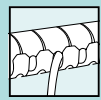
MATERIAL	Polypropylene (PP)
Operating Temperature	-60 °C to +110 °C, intermittent +140 °C
Flammability	UL 94 HB



More variants and dimensions are available on request. Please contact us for more information.

TYPE	Bundle Ø max.	Colour	Reel Length	Application Tool	Article-No.
HWPP8	9	Black (BK)	25 m	HAT8	161-64101
	9	Grey (GY)	25 m	HAT8	161-64102
	9	Silver (SR)	25 m	HAT8	161-64103
	9	White (WH)	25 m	HAT8	161-64104
HWPP16	16	Black (BK)	25 m	HAT16	161-64201
	16	Grey (GY)	25 m	HAT16	161-64202
	16	Silver (SR)	25 m	HAT16	161-64203
	16	White (WH)	25 m	HAT16	161-64207
HWPP20	21	Black (BK)	25 m	HAT20	161-64301
	21	Grey (GY)	25 m	HAT20	161-64302
	21	Silver (SR)	25 m	HAT20	161-64303
	21	White (WH)	25 m	HAT20	161-64304
HWPP25	27	Black (BK)	25 m	HAT25	161-64401
	27	Grey (GY)	25 m	HAT25	161-64402
	27	Silver (SR)	25 m	HAT25	161-64403
	27	White (WH)	25 m	HAT25	161-64407
HWPP30	32	Black (BK)	25 m	HAT30	161-64501
	32	Grey (GY)	25 m	HAT30	161-64502
	32	Silver (SR)	25 m	HAT30	161-64503
	32	White (WH)	25 m	HAT30	161-64504
HWPP40	42	Black (BK)	15 m	HAT40	161-64601

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Accessories for Helawrap Cable Cover

HWClips

To complete the Helawrap cable management system various Helawrap Clips in compatible sizes are available.

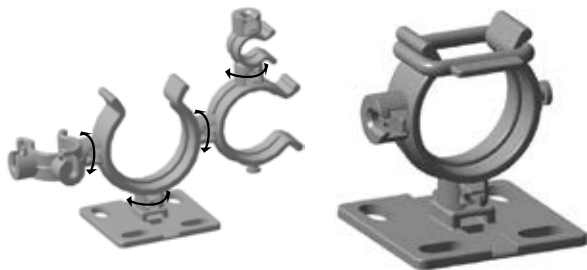
The mounting clips can be combined and adjusted individually. Attached to a mounting base the assembly can be screw mounted or directly stuck to the surface.

Features and benefits

- Mounts and routes Helawrap cable cover flexibly and efficiently
- Fit snugly around the cable cover and holds it tight
- Each clip can be joined to mounting plate or other clips of any size
- Each clip rotates freely
- Easily released and re-used



The Helawrap accessory set for bundling, protecting, mounting and routing cables.



Multiple clips can be joined. Clips swivel freely.

For secure hold, R1 loop can be used (for HWClip25 and HWClip30 only).

MATERIAL	Polyamide 6.6, high impact modified, heat stabilised (PA66HIRHS)	Flexible Polyvinyl Chloride, cadmium free (PVC)
Operating Temperature	-40 °C to +105 °C	-35 °C to +50 °C
Flammability	UL 94 HB	UL 94 V2

HF ✓

RoHS ✓

RoHS ✓

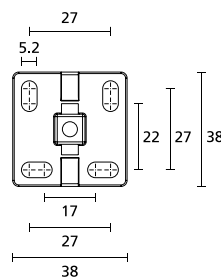
TYPE	for Helawrap size	Material	Colour	Pack Cont.	Article-No.
HWCLIP08	8	PA66HIRHS	Black (BK)	50 pcs.	161-64002
HWCLIP16	16	PA66HIRHS	Black (BK)	50 pcs.	161-64004
HWCLIP20	20	PA66HIRHS	Black (BK)	50 pcs.	161-64006
HWCLIP25	25	PA66HIRHS	Black (BK)	50 pcs.	161-64008
HWCLIP30	30	PA66HIRHS	Black (BK)	50 pcs.	161-64010
R1	25, 30	PVC	Black (BK)	500 pcs.	201-20010

Subject to technical changes.

HWBase

Features and benefits

- Mounting plates can be fixed with screws, cable ties or adhesive
- Can be used to mount any size HWClip



Helawrap HWBase/HWBBaseA

TYPE	Adhesive	Colour	Pack Cont.	Article-No.
HWBASE	-	Black (BK)	50 pcs.	161-64015
HWBASEA	Acrylate with base of polyurethane foam	Black (BK)	50 pcs.	161-64013

All dimensions in mm. Subject to technical changes.



Cable Protection Systems

Protective Tubing and Spiral Binding

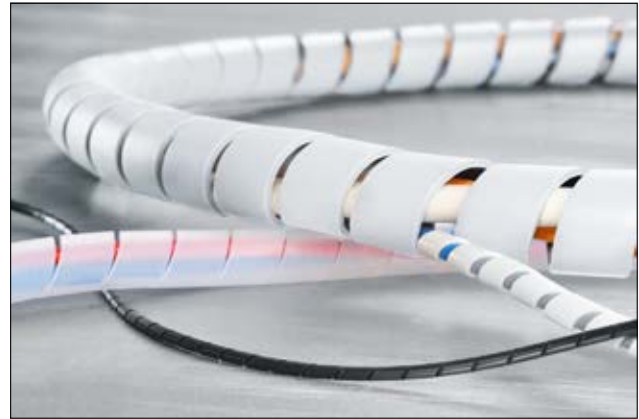
Polyethylene spiral binding

SBPE

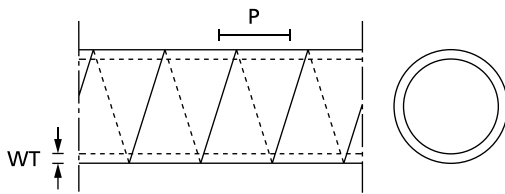
SBPE spiral binding is suitable for standard electrical applications and panel building and plant engineering. Sizes 4 and 9 are also available in practical 5 metre lengths.

Features and benefits

- Organises and protects cables and hoses
- Suitable for retro-fitting
- Cables branch out at any point
- Wide range of diameters and colours



HellermannTyton SBPE Spiral Wrap.



Spiral binding

MATERIAL	Polyethylene (PE)
Operating Temperature	-60 °C to +80 °C, intermittent +120 °C
Flammability	UL 94 HB

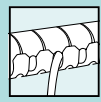


TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPE1.5	1.5	0.8	6.0	1.6	8	Black (BK)	30 m	161-41001
	1.5	0.8	6.0	1.6	8	Grey (GY)	30 m	161-41002
	1.5	0.8	6.0	1.6	8	Natural (NA)	30 m	161-41000
SBPE4	4	1.0	7.8	5	20	Black (BK)	30 m	161-41101
	4	1.0	7.8	5	20	Grey (GY)	30 m	161-41102
	4	1.0	7.8	5	20	Natural (NA)	30 m	161-41100
SBPE9	9	1.4	12.5	10	100	Black (BK)	30 m	161-41201
	9	1.4	12.5	10	100	Grey (GY)	30 m	161-41202
	9	1.4	12.5	10	100	Natural (NA)	30 m	161-41200
SBPE16	16	1.6	16.0	20	150	Black (BK)	30 m	161-41301
	16	1.6	16.0	20	150	Grey (GY)	30 m	161-41302
	16	1.6	16.0	20	150	Natural (NA)	30 m	161-41300

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPE4D	4	1.0	7.8	5	20	Black (BK)	5 m	161-41104
	4	1.0	7.8	5	20	Grey (GY)	5 m	161-41105
	4	1.0	7.8	5	20	Natural (NA)	5 m	161-41103
SBPE9D	9	1.4	12.5	10	100	Black (BK)	5 m	161-41204
	9	1.4	12.5	10	100	Grey (GY)	5 m	161-41205
	9	1.4	12.5	10	100	Natural (NA)	5 m	161-41203

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Flame-retardant polyethylene spiral binding

SBPEFR

The flame-retardant properties of SBPEFR make it suitable for applications in the automobile and electrical industries, where enhanced fire protection is needed.

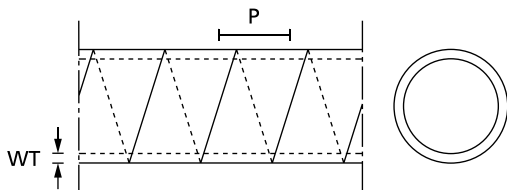
Features and benefits

- Organises and protects cables and hoses
- Self-extinguishing according to UL94 V2
- Suitable for retro-fitting
- Cables branch out at any point
- Wide range of diameters and colours



SBPEFR spiral binding is available in several diameters and in the colours black and white.

MATERIAL	Polyethylene, flame retardant (PE-FR)
Operating Temperature	-60 °C to +80 °C, intermittent +120 °C
Flammability	UL 94 V2, FMVSS 302, Type B



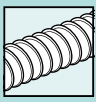
Spiral binding



More variants and dimensions are available on request. Please contact us for more information.

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPEFR1.5	1.5	0.8	6.0	1.6	8	Black (BK)	30 m	161-43001
	1.5	0.8	6.0	1.6	8	White (WH)	30 m	161-43000
SBPEFR4	4	1.0	7.8	5	20	Black (BK)	30 m	161-43101
	4	1.0	7.8	5	20	White (WH)	30 m	161-43100
SBPEFR9	9	1.4	12.5	10	100	Black (BK)	30 m	161-43201
	9	1.4	12.5	10	100	White (WH)	30 m	161-43200
SBPEFR16	16	1.6	16.0	20	150	Black (BK)	30 m	161-43301
	16	1.6	16.0	20	150	White (WH)	30 m	161-43300

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Corrugated Tubings

IWS Polyethylene

IWS corrugated flexible tubings are used to route and protect wires in control panels, switching systems and machine building.

Features and benefits

- Highly flexible
- Compatible with the CTCC IWS corrugated tubing holder
- Self-extinguishing according to UL94 HB and FMVSS 302
- Halogenfree
- A slit version is available on request



IWS flexible corrugated tubings.

MATERIAL	Polyethylene (PE)
Operating Temperature	-50 °C to +80 °C
Flammability	UL 94 HB, FMVSS 302



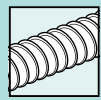
Slit version on request.



Other colours and cut lengths available on request. Please contact us!

TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Colour	Reel Length	Article-No.
IWS17	17	21.2	16.7	40	Grey (GY)	50 m	169-22171
IWS29	29	34.1	29.3	60	Grey (GY)	25 m	169-22291
IWS37	37	41.6	36.5	90	Grey (GY)	25 m	169-22371
IWS50	50	53.6	47.8	100	Grey (GY)	25 m	169-22501

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Corrugated tubing holder

CTCC IWS corrugated tubing holder

CTCC IWS corrugated tubing holders are used in the control cabinet for fastening and guiding.

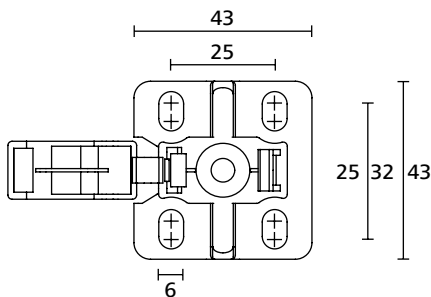
Features and benefits

- Compatible with the IWS corrugated tubings
- Safe and fixe hold of the corrugated tubing
- Easy closing and reopening of the lid
- Cable tie holder on both sides
- Pre-fixation of the corrugated tubing in open status
- Can be fixed with screws and matched to the mounting rails of the control cabinets
- Additional laying - a ground cable on the corrugated tubings possible (through recess in the cover)
- Self-extinguishing according to UL94 HB

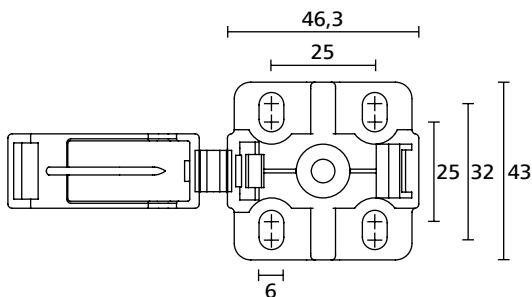


CTCC-IWS corrugated tubing holders.

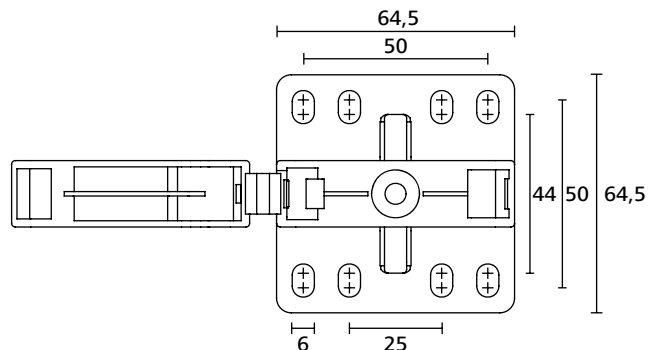
MATERIAL	Polyamide 6.6/6, high impact modified, heat stabilised (PA66/6HIRHS)
Operating Temperature	-40 °C to +105 °C
Flammability	UL 94 HB



CTCC-IWS17-MB43



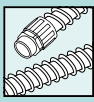
CTCC-IWS29-MB43



CTCC-IWS37-MB65/ CTCC-IWS50-MB65

TYPE	Length (L)	Colour	Pack Cont.	Article-No.
CTCC-IWS17-MB43	43.0	Grey (GY)	20 pcs.	169-22000
CTCC-IWS29-MB43	46.3	Grey (GY)	20 pcs.	169-22001
CTCC-IWS50-MB65	64.5	Grey (GY)	20 pcs.	169-22003
CTCC-IWS37-MB65	64.5	Grey (GY)	20 pcs.	169-22002

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



FlexiGuard conduits & fittings

PVC Conduits with steel wire spiral-reinforcement

FlexiGuard protective hoses are used to protect cables in machines and plant construction, and robotics as well as leads to switch cabinets.

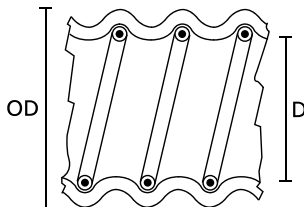
Features and benefits

- Extremely flexible
- Excellent mechanical protection
- Good resistance to oils, acids and alkalis
- Good resistance to chemicals



FlexiGuard FG with FG-UH fitting.

MATERIAL	Flexible Polyvinyl Chloride, cadmium free (PVC), Steel (ST)
Operating Temperature	-20 °C to +70 °C, (+80 °C, 200 h)
Flammability	UL 94 HB

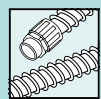


FlexiGuard



TYPE	Nominal Ø	Inside Ø (ID)	Outside Ø (OD)	Min. Bending Radius (R)	Reel Length	Colour	Pack Cont.	Article-No.
FG14	14	10	14	14	10 m	Grey (GY)	10 m	167-00209
FG17	17	13	17	17	10 m	Grey (GY)	10 m	167-00211
FG19	19	15	19	19	10 m	Grey (GY)	10 m	167-00213
FG21	21	16	21	21	10 m	Grey (GY)	10 m	167-00216
FG27	27	21	27	27	10 m	Grey (GY)	10 m	167-00221
FG36	36	30	36	36	10 m	Grey (GY)	10 m	167-00229
FG45	45	38	45	45	10 m	Grey (GY)	10 m	167-00236
FG56	56	48	56	56	10 m	Grey (GY)	10 m	167-00248

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Fittings for FlexiGuard spiral-reinforced PVC Conduits

FG straight fitting with swivel thread, IP54

Straight swivel external thread.

Fulfils IP54 with FlexiGuard FG conduits.

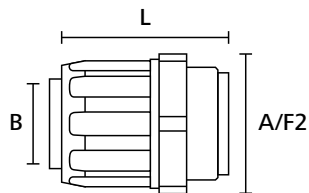
Features and benefits

- One piece, easy fit
- Swivel thread
- Vibration and tension resistant
- Large bore size
- Inner ferrule protects cables
- Good resistance to chemicals



FG conduit fitting.

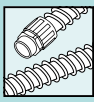
MATERIAL	Polypropylene (PP)
Operating Temperature	-35 °C to +80 °C
Flammability	UL 94 V2



FlexiGuard fitting, straight with swivel thread

TYPE	Nominal Ø	Thread Size	Min. Bore Size (B)	Length (L)	A/F Thread (A/F2)	Colour	Pack Cont.	Article-No.
FG14-M16	14	M16	8.8	42.0	20	Grey (GY)	10 pcs.	167-00530
FG14-PG9	14	PG9	8.8	42.0	20	Grey (GY)	10 pcs.	167-00510
FG17-M20	17	M20	11.1	45.5	24	Grey (GY)	10 pcs.	167-00531
FG17-PG11	17	PG11	11.1	45.5	24	Grey (GY)	10 pcs.	167-00511
FG19-PG13	19	PG13.5	13.0	47.5	27	Grey (GY)	10 pcs.	167-00512
FG21-M25	21	M25	14.8	49.8	30	Grey (GY)	10 pcs.	167-00533
FG21-PG16	21	PG16	14.8	49.8	30	Grey (GY)	10 pcs.	167-00513
FG27-M32	27	M32	19.4	52.0	36	Grey (GY)	10 pcs.	167-00534
FG27-PG21	27	PG21	19.4	52.0	36	Grey (GY)	10 pcs.	167-00514
FG36-M40	36	M40	27.9	55.0	46	Grey (GY)	10 pcs.	167-00535
FG36-PG29	36	PG29	27.9	55.0	46	Grey (GY)	10 pcs.	167-00515
FG45-M50	45	M50	35.6	58.0	55	Grey (GY)	10 pcs.	167-00536
FG45-PG36	45	PG36	35.6	58.0	55	Grey (GY)	10 pcs.	167-00516
FG56-M63	56	M63	45.9	60.5	65	Grey (GY)	10 pcs.	167-00537
FG56-PG48	56	PG48	45.9	60.5	65	Grey (GY)	10 pcs.	167-00517

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Fittings for FlexiGuard spiral-reinforced PVC Conduits

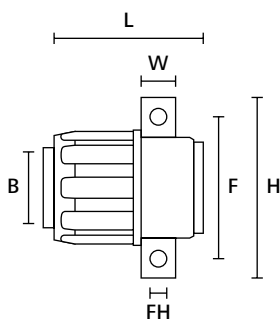
FG-UH straight fitting with mounting bracket, IP54

Straight swivel bracket.

Fulfills IP54 with FlexiGuard FG conduits.

Features and benefits

- One piece, easy fit
- Swivel bracket
- Vibration and tension resistant
- Large bore size
- Inner ferrule protects cables
- Good resistance to chemicals



FlexiGuard fitting, straight with bracket



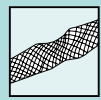
FG-UH fitting with bracket.

MATERIAL	Polypropylene (PP)
Operating Temperature	-35 °C to +80 °C
Flammability	UL 94 V2



TYPE	Nominal Ø	Min. Bore Size (B)	Length (L)	Width (W)	Height (H)	Hole Ø (FH)	Fixing Hole Centres (F)	Colour	Pack Cont.	Article-No.
FG14-UH	14	8.8	42.0	10.0	40.0	5,7	29.0	Grey (GY)	10 pcs.	167-00520
FG17-UH	17	11.1	45.5	12.0	50.0	5,7	37.0	Grey (GY)	10 pcs.	167-00521
FG19-UH	19	13.0	47.5	12.0	50.0	5,7	37.0	Grey (GY)	10 pcs.	167-00522
FG21-UH	21	14.8	49.8	12.0	50.0	5,7	37.0	Grey (GY)	10 pcs.	167-00523
FG27-UH	27	19.4	52.0	12.5	57.0	5,7	43.0	Grey (GY)	10 pcs.	167-00524
FG36-UH	36	27.9	55.0	13.0	67.0	6,7	53.0	Grey (GY)	10 pcs.	167-00525
FG45-UH	45	35.6	58.0	14.0	80.0	6,7	65.0	Grey (GY)	10 pcs.	167-00526
FG56-UH	56	45.9	60.5	16.5	93.0	6,7	76.0	Grey (GY)	10 pcs.	167-00527

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



Standard polyester braided sleeving

Helagain HEGP

Helagain HEGP braided sleeving provides abrasion protection in the automotive industry, in machine building, in panel building and in electrical appliances.

Features and benefits

- Made of sturdy polyester
- Highly flexible
- High abrasion resistance
- Very high surface coverage



Helagain HEGP braided sleeving.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C
Melting Point	+250 °C
Flammability	UL 94 V2, FMVSS 302



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGP03	1	5	Black (BK)	200 m	45	170-10300
HEGP04	2	7	Black (BK)	200 m	45	170-10400
HEGP05	3	9	Black (BK)	200 m	45	170-10500
HEGP06	4	11	Black (BK)	100 m	45	170-10600
HEGP08	5	12	Black (BK)	100 m	45	170-10800
HEGP10	7	15	Black (BK)	100 m	45	170-11000
HEGP12	8	17	Black (BK)	100 m	45	170-11200
HEGP15	10	20	Black (BK)	100 m	45	170-11500
HEGP20	14	26	Black (BK)	50 m	45	170-12000
HEGP25	18	34	Black (BK)	50 m	45	170-12500
HEGP30	20	40	Black (BK)	50 m	45	170-13000
HEGP40	30	50	Black (BK)	50 m	45	170-14000
HEGP50	40	66	Black (BK)	50 m	45	170-15000

All dimensions in mm. Subject to technical changes.
Colour grey available on request. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools
45
HSG0

For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.

EN 45545-2

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In cooperation with



Wire and Cable Markers

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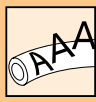
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Shrinkable markers, „Continuous Tube“, thermal transfer

TCGT – 3:1 Commercial Grade

TCGT is a commercial grade 3:1 heat shrink marker material supplied as a continuous tube and printable on both sides. TCGT's polyolefin compound has good mechanical strength and resistance to organic solvents and chemicals. The surface of the tubing has been especially prepared so that print performance is excellent at all times. HellermannTyton's printer range allow users to create a high quality print. In addition it is possible to either perforate the tubing at pre-determined lengths or fully sever the markers.

Features and benefits

- Shrink ratio 3:1
- Available in black, blue, red, white and yellow
- Cable range from 39 mm to 1 mm
- Good mechanical strength and resistance to organic solvents and chemicals
- Highly flexible
- Delivery in convenient storage boxes



More colours and sizes available on request.



TCGT – five colours of printable tube to cover a wide range of diameters.

MATERIAL	Polyolefin, cross-linked (PO-X)
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+90 °C
Shrink Ratio	3:1
Recommended Ribbon Type	TTDTHOUT, TTRW, TT822OUT8
Thermal Transfer Printer	TT431, TT4030, TrakMark DS

RoHS ✓

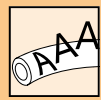


TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Pack Cont.	Colour	Article-No.
TCGT3-1WH	3.0	1.0	0.60	176 m	White (WH)	553-30351
TCGT3-1YE	3.0	1.0	0.60	176 m	Yellow (YE)	553-30350
TCGT4.8-1.6WH	4.8	1.6	0.65	110 m	White (WH)	553-30451
TCGT4.8-1.6YE	4.8	1.6	0.65	110 m	Yellow (YE)	553-30450
TCGT6-2WH	6.0	2.0	0.70	110 m	White (WH)	553-30651
TCGT6-2YE	6.0	2.0	0.70	110 m	Yellow (YE)	553-30650
TCGT9-3WH	9.0	3.0	0.80	72 m	White (WH)	553-30951
TCGT9-3YE	9.0	3.0	0.80	72 m	Yellow (YE)	553-30950
TCGT12-4WH	12.0	4.0	0.85	54 m	White (WH)	553-31251
TCGT12-4YE	12.0	4.0	0.85	54 m	Yellow (YE)	553-31250
TCGT18-6WH	18.0	6.0	1.00	26 m	White (WH)	553-31851
TCGT18-6YE	18.0	6.0	1.00	26 m	Yellow (YE)	553-31850
TCGT24-8WH	24.0	8.0	1.20	26 m	White (WH)	553-32451
TCGT24-8YE	24.0	8.0	1.20	26 m	Yellow (YE)	553-32450
TCGT39-13WH	39.0	13.0	1.25	10 m	White (WH)	553-33951
TCGT39-13YE	39.0	13.0	1.25	10 m	Yellow (YE)	553-33950

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.
More colours on request.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



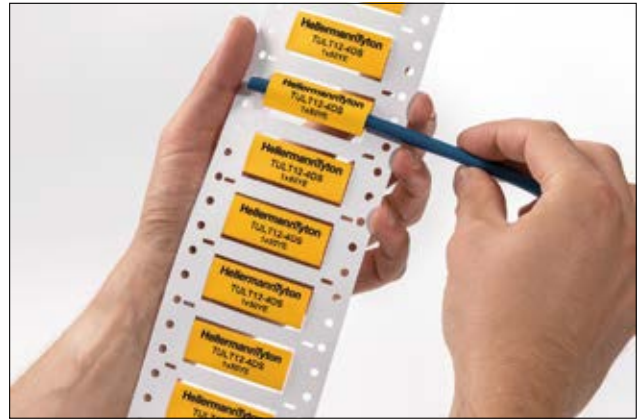
Shrinkable markers „Ladder Style“, thermal transfer

TULT DS – 3:1 Military and Electronics „Ladder Style“

TULT DS is a UL recognised 3:1 heat shrink marker material pre-cut and formatted into a convenient „ladder“ system. This pre-cut format not only allows printing on both sides of the marker but the user can also easily choose and pick each required marker. TULT’s polyolefin compound has good mechanical strength and resistance to organic solvents and chemicals. The surface of the tubing has been especially prepared so that print performance is excellent at all times using HellermannTyton’s printer range.

Features and benefits

- Shrink ratio 3:1
- 50 mm, 25 mm and 16 mm pre-cut marker options as standard, other lengths available on request
- Available in white or yellow
- Good mechanical strength and resistance to organic solvents and chemicals
- Highly flexible
- Delivery in convenient storage boxes

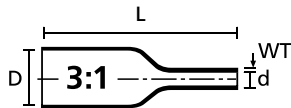


Shrinkable markers TULT DS for military and electronics industry.



TULT DS – shrinkable markers with good mechanical strength for a wide range of applications.

MATERIAL	Polyolefin, cross-linked (PO-X)
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+90 °C
Shrink Ratio	3:1
Recommended Ribbon Type	TTDTHOUT
Thermal Transfer Printer	TT431, TT4030, TrakMark DS



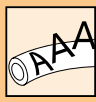
RoHS

TYPE	Supplied Ø D min.	Recov. Ø d max.	Length (L)	Wall (WT)	Pack Cont.	Colour	Article-No.
TULT3-1DS-2x25WH	3.0	1.0	25.0	0.60	2,000 pcs.	White (WH)	553-71008
TULT3-1DS-2x25YE	3.0	1.0	25.0	0.60	2,000 pcs.	Yellow (YE)	553-71009
TULT3-1DS-1x50WH	3.0	1.0	50.0	0.60	1,000 pcs.	White (WH)	553-71006
TULT3-1DS-1x50YE	3.0	1.0	50.0	0.60	1,000 pcs.	Yellow (YE)	553-71007

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

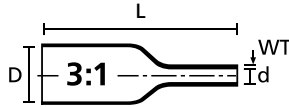


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Shrinkable markers „Ladder Style“, thermal transfer

TULT DS – 3:1 Military and Electronics „Ladder Style“

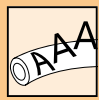


TYPE	Supplied Ø D min.	Recov. Ø d max.	Length (L)	Wall (WT)	Pack Cont.	Colour	Article-No.
TULT4.8-1.6DS-2x25WH	4.8	1.6	25.0	0.66	2,000 pcs.	White (WH)	553-71014
TULT4.8-1.6DS-2x25YE	4.8	1.6	25.0	0.66	2,000 pcs.	Yellow (YE)	553-71015
TULT4.8-1.6DS-1x50WH	4.8	1.6	50.0	0.66	1,000 pcs.	White (WH)	553-71012
TULT4.8-1.6DS-1x50YE	4.8	1.6	50.0	0.66	1,000 pcs.	Yellow (YE)	553-71013
TULT6-2DS-2x25WH	6.0	2.0	25.0	0.69	2,000 pcs.	White (WH)	553-71020
TULT6-2DS-2x25YE	6.0	2.0	25.0	0.69	2,000 pcs.	Yellow (YE)	553-71021
TULT6-2DS-1x50WH	6.0	2.0	50.0	0.69	1,000 pcs.	White (WH)	553-71018
TULT6-2DS-1x50YE	6.0	2.0	50.0	0.69	1,000 pcs.	Yellow (YE)	553-71019
TULT9-3DS-2x25WH	9.0	3.0	25.0	0.79	1,000 pcs.	White (WH)	553-71026
TULT9-3DS-2x25YE	9.0	3.0	25.0	0.79	1,000 pcs.	Yellow (YE)	553-71027
TULT9-3DS-1x50WH	9.0	3.0	50.0	0.79	500 pcs.	White (WH)	553-71024
TULT9-3DS-1x50YE	9.0	3.0	50.0	0.79	500 pcs.	Yellow (YE)	553-71025
TULT12-4DS-2x25WH	12.0	4.0	25.0	0.84	1,000 pcs.	White (WH)	553-71032
TULT12-4DS-2x25YE	12.0	4.0	25.0	0.84	1,000 pcs.	Yellow (YE)	553-71033
TULT12-4DS-1x50WH	12.0	4.0	50.0	0.84	500 pcs.	White (WH)	553-71030
TULT12-4DS-1x50YE	12.0	4.0	50.0	0.84	500 pcs.	Yellow (YE)	553-71031
TULT18-6DS-2x25WH	18.0	6.0	25.0	1.00	1,000 pcs.	White (WH)	553-71038
TULT18-6DS-2x25YE	18.0	6.0	25.0	1.00	1,000 pcs.	Yellow (YE)	553-71039
TULT18-6DS-1x50WH	18.0	6.0	50.0	1.00	500 pcs.	White (WH)	553-71036
TULT18-6DS-1x50YE	18.0	6.0	50.0	1.00	500 pcs.	Yellow (YE)	553-71037
TULT24-8DS-2x25WH	24.0	8.0	25.0	1.20	500 pcs.	White (WH)	553-71044
TULT24-8DS-2x25YE	24.0	8.0	25.0	1.20	500 pcs.	Yellow (YE)	553-71045
TULT24-8DS-1x50WH	24.0	8.0	50.0	1.20	250 pcs.	White (WH)	553-71042
TULT24-8DS-1x50YE	24.0	8.0	50.0	1.20	250 pcs.	Yellow (YE)	553-71043
TULT39-13DS-2x25WH	39.0	13.0	25.0	1.25	500 pcs.	White (WH)	553-71050
TULT39-13DS-2x25YE	39.0	13.0	25.0	1.25	500 pcs.	Yellow (YE)	553-71051
TULT39-13DS-1x50WH	39.0	13.0	50.0	1.25	250 pcs.	White (WH)	553-71048
TULT39-13DS-1x50YE	39.0	13.0	50.0	1.25	250 pcs.	Yellow (YE)	553-71049

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



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Identification tags for cable bundle, „Ladder Style“, thermal transfer

TAGPU – UV-stabilised Tiptags

TAGPU is a specially designed cable marker for identifying larger wire and cable bundles, where a permanently legible and UV resistant marking is required. The cable markers consist of a robust and flexible polyurethane material and are especially suited for harsh environments. They are supplied pre-cut and have been formatted into a convenient „ladder“ system. The markers are applied to cable and harness assemblies with cable ties, and are also suitable for retrofit purposes. The material has been conditioned for printing on both thermal transfer and laser beam printers. Simply print and press out the required TAGPU and apply with cable ties.

Print with HellermannTyton's premium range of thermal printers and ribbons or a laser beam marking device.

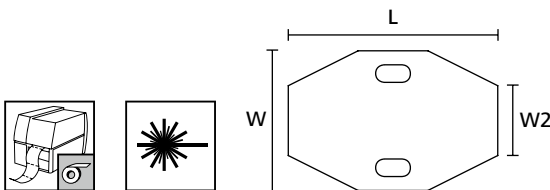
Features and benefits

- UV-stabilised
- For larger cables and wires, bundles
- Robust and flexible material
- Thermal transfer or laser beam printable
- Available in white or yellow
- Halogen Free
- Good mechanical strength and highly flexible
- Delivery in convenient storage boxes



TAGPU diamond shaped form for easy application with only one cable tie.

MATERIAL	Polyurethane (PUR)
Operating Temperature	-25 °C to +105 °C
Flammability	UL 94 V0 (3 mm)
Recommended Ribbon Type	TTRC+, TTRHT
Thermal Transfer Printer	TT431, TT4030



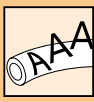
TYPE	Drawing	Length (L)	Width (W)	Width (W2)	Pack Cont.	Colour	Article-No.
TAGPU20X30-2		30.0	20.0	11.0	1,000 pcs.	Blue (BU)	556-80556
		30.0	20.0	11.0	1,000 pcs.	Red (RD)	556-80557
		30.0	20.0	11.0	1,000 pcs.	White (WH)	556-80527
		30.0	20.0	11.0	1,000 pcs.	Yellow (YE)	556-80528

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. More colours on request.



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Self-laminating labels, thermal transfer

Helatag 1209 (White-Transparent)

These labels are ideal identifying cables and wire. They consist of a printable area plus a lamination function for protection of print text against humidity, dirt, debris and mechanical abrasion. Due to its flexibility these labels are also suitable for flat ribbon cables.

Features and benefits

- High-quality self-laminating labels
- Suitable for marking of wires and cables
- Laminating function gives excellent protection against humidity and mechanical abrasion
- Rounded edge design gives additional bonding strength

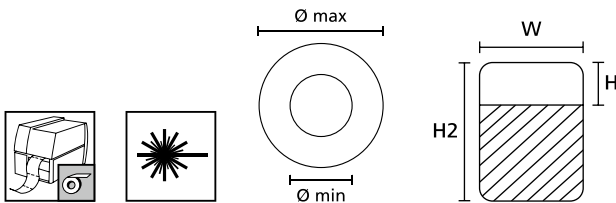


Helatag 1209 offers an excellent protection against abrasion and environmental impact.



More variants and dimensions are available on request. Please contact us for more information.

MATERIAL	Type 1209, Vinyl, white, transparent (1209)
Operating Temperature	-20 °C to +80 °C
Curing Temperature	from 0 °C
Adhesive	Acrylic
Thickness of Foil	90 µm
Chem. Material Properties	Resistant to water, alcohol, most oils, greases, fuel, aliphatic solvents, weak acids, salts and alkalis.
Recommended Ribbon Type	TT932DOUT
Thermal Transfer Printer	TT431, TT4030



TYPE	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Height (H2)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG51TD3-1209-WHCL	1.4	3.0	25.4	8.8	19.1	85.0	3 pcs.	5,000 pcs.	White (WH), Transparent (CL)	596-12091
TAG26TD6-1209-WHCL	1.5	3.0	12.7	9.5	19.1	85.0	6 pcs.	10,000 pcs.	White (WH), Transparent (CL)	596-12096

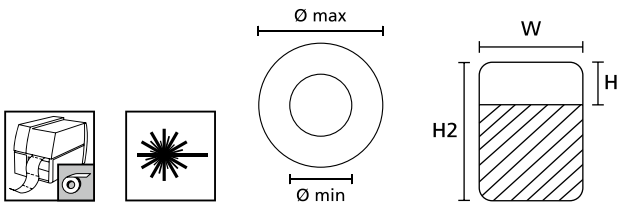
All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. More colours on request.



Self-laminating labels, thermal transfer

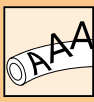
Helatag 1209 (White-Transparent)



TYPE	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Height (H2)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG36TD7-1209-WHCL	2.0	4.7	12.7	9.0	23.8	95.0	7 pcs.	10,000 pcs.	White (WH), Transparent (CL)	596-12097
TAG2TD6-1209-WHCL	3.5	7.6	12.7	12.7	36.5	82.0	6 pcs.	5,000 pcs.	White (WH), Transparent (CL)	596-61209
TAG22TD3-1209-WHCL	3.5	7.6	25.4	12.7	36.5	82.0	3 pcs.	2,500 pcs.	White (WH), Transparent (CL)	596-32091
TAG24TD1-1209-WHCL	3.5	7.6	50.8	12.7	36.5	55.0	1 pc.	1,000 pcs.	White (WH), Transparent (CL)	596-12094
TAG23TD5-1209-WHCL	4.5	10.0	19.1	12.7	44.5	101.6	5 pcs.	5,000 pcs.	White (WH), Transparent (CL)	596-12095
TAG25TD3-1209-WHCL	4.5	10.0	25.4	12.7	44.5	82.0	3 pcs.	2,500 pcs.	White (WH), Transparent (CL)	596-51209
TAG9TD3-1209-WHCL	5.5	12.1	25.4	19.1	57.1	82.0	3 pcs.	2,500 pcs.	White (WH), Transparent (CL)	596-91209
TAG10TD2-1209-WHCL	5.5	12.1	49.5	19.1	57.1	101.6	2 pcs.	1,000 pcs.	White (WH), Transparent (CL)	596-12090
TAG91TD1-1209-WHCL	8.0	16.0	70.0	35.0	85.0	74.0	1 pc.	500 pcs.	White (WH), Transparent (CL)	596-41209
TAG1TD2-1209-WHCL	8.5	18.2	48.2	19.1	79.2	101.6	2 pcs.	1,000 pcs.	White (WH), Transparent (CL)	596-21209
TAG3TD3-1209-WHCL	10.0	22.2	25.4	25.4	95.3	82.0	3 pcs.	1,000 pcs.	White (WH), Transparent (CL)	596-31209
TAG6TD1-1209-WHCL	10.0	22.2	50.8	25.4	95.3	55.0	1 pc.	500 pcs.	White (WH), Transparent (CL)	596-11209
TAG107TD3-1209-WHCL	12.0	37.5	25.4	31.8	149.9	82.0	3 pcs.	1,000 pcs.	White (WH), Transparent (CL)	596-01209
TAG38TD3-1209-WHCL	20.8	47.5	25.4	38.1	187.2	82.0	3 pcs.	1,000 pcs.	White (WH), Transparent (CL)	596-12098
TAG07TD1-1209-WHCL	20.8	47.5	50.8	25.4	187.2	55.0	1 pc.	250 pcs.	White (WH), Transparent (CL)	596-71209

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. More colours on request.



Pre-printed cable markers

WIC, snap on

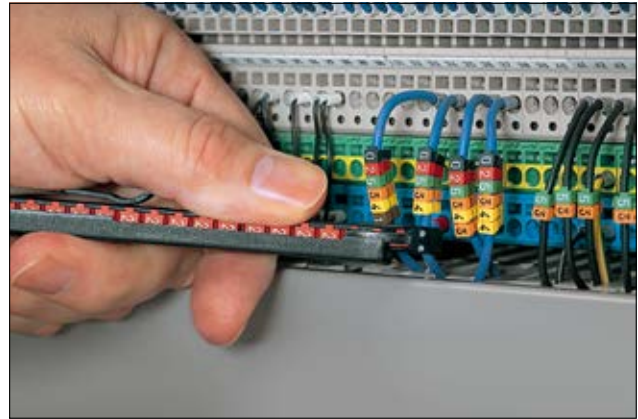
The WIC range of pre-printed cable markers easily snap onto cables and wires. The WIC tool ensures an easy application of the markers – simply insert the markers into the tool, slide down and press the markers onto the wire while twisting. Markers for fibre cables should be applied by hand.

All markers come with a locking mechanism to ensure perfect text alignment.

The two WICA accessories are ideal for marking cables of larger diameters (6 mm² - 95 mm²).

Features and benefits

- Fast and easy to use pre-printed nylon snap-on marker
- Ideal where termination is completed or for maintenance and repair
- Markers lock together to give perfect text alignment
- Vibration resistant markers, WIC markers lock onto wire and cable tightly
- WIC tool holds 20 WIC markers in all four sizes
- Gripping system locks markers onto wire and resists rotation
- Popular 2 digit markings such as L1, L2, L3, PE are available in yellow or colour code
- Dispenser colour denotes marker size: WIC0 (green), WIC1 (red), WIC2 (blue), WIC3 (yellow)
- Two accessories available to identify cables from 6 mm² up to 25 mm² (WICA-AC10-25) and up to 95 mm² (WICA-ACT-BK)

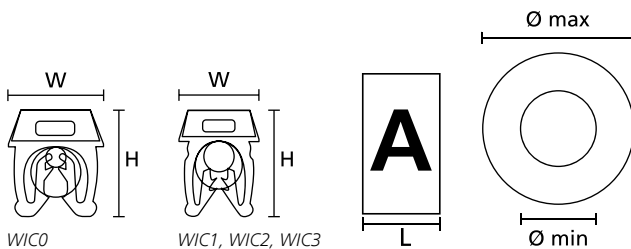


Use the applicator to simply snap the marker onto your cable.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C, (+105 °C, 500 h)
Flammability	UL 94 V0



Customized marking on request



TYPE	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Length (L)	Wire Size Range (mm ²)	Pack Cont.	Application Tool
WIC0	0.80	2.20	5.0	5.5	3.0	0.15-0.75	1,000 pcs.	WIC Tool
WIC1	2.00	2.80	5.0	6.4	3.0	0.50-1.50	1,000 pcs.	
WIC2	2.80	3.80	5.6	7.1	3.0	1.50-2.50	1,000 pcs.	
WIC3	4.30	5.30	8.0	9.6	3.0	4.00-6.00	500 pcs.	

All dimensions in mm. Subject to technical changes.

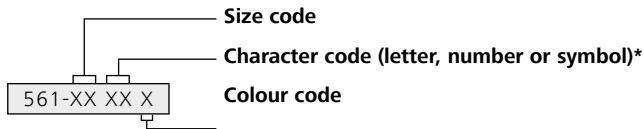
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. More colours on request.



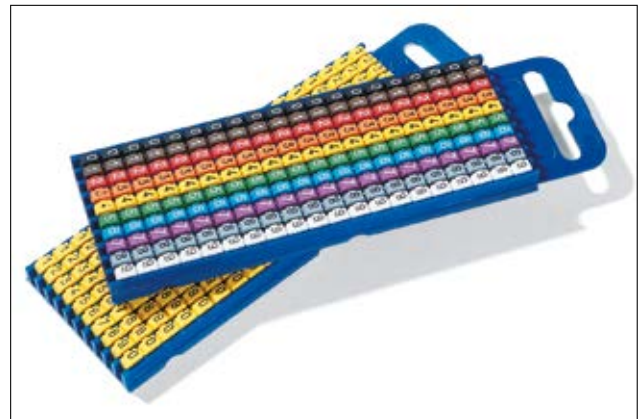
Pre-printed cable markers

WIC, snap on

Use our coding system, to easily order the markers suitable for your use.



* For the assortment and the symbols please use the code with three digits.

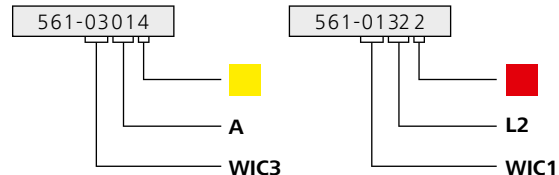


Easy to use pre-printed nylon snap-on WIC markers.

Step 1: Choose your size.

SIZE	WIC0	WIC1	WIC2	WIC3
Code	00	01	02	03

Example:



Step 2: Choose your letter, symbol, number or assortment.

LETTER	A	B	C	D	E	F	G	H	I	J	K
Code	01	02	03	04	05	06	07	08	09	10	11
LETTER	L	M	N	O	P	Q	R	S	T	U	V
Code	12	13	14	15	16	17	18	19	20	21	22
LETTER	W	X	Y	Z							
Code	23	24	25	26							

SYMBOL	L1	L2	L3	PE	+	-	/	↓	.
Code	31	32	33	34	70	71	72	73	74
SYMBOL									
Code	75	76	77	000	001				

NUMBER	0	1	2	3	4	5	6	7	8	9
Code	60	61	62	63	64	65	66	67	68	69

ASSORTMENT	0	1	2	3	4	5	6	7	8	9
Code	100									
ASSORTMENT	A	E	L	N	R	S	T	+	-	
Code	994									
ASSORTMENT	G	H	Y	Z	O	Q	J	K	X	L
Code	003									
ASSORTMENT	L1	L1	L2	L2	L3	L3	N	N	↓	↓
Code	300									
ASSORTMENT	L1	L1	L2	L2	L3	L3	N	N	↓	↓
Code	302									

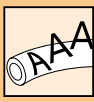
ASSORTMENT	0	1	2	3	4	5	6	7	8	9
Code	101									
ASSORTMENT	B	C	U	V	W	P	D	F	I	M
Code	002									
ASSORTMENT	.	/	---	↓	+	-	~	=	*	
Code	004									
ASSORTMENT	L1	L1	L2	L2	L3	L3	N	N	↓	↓
Code	301									
ASSORTMENT	L1	L1	L2	L2	L3	L3	N	N	↓	↓
Code	303									

Step 3: Choose your colour.

COLOUR										
Code	0	1	2	3	4	5	6	7	8	9



Customized marking on request



Pre-printed cable markers

WIC Tool and accessories

The WIC range of pre-printed cable markers easily snap onto cables and wires. The WIC tool ensures an easy application of the markers – simply insert the markers into the tool, slide down and press the markers onto the wire while twisting. Markers for fibre cables should be applied by hand.

All markers come with a locking mechanism to ensure perfect text alignment.

The two WICA accessories are ideal for marking cables of larger diameters (6 mm² - 95 mm²).

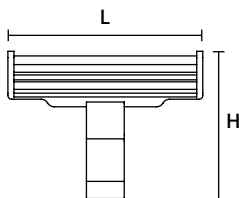
Features and benefits

- Fast and easy to use pre-printed nylon snap-on marker
- Ideal where termination is completed or for maintenance and repair
- Markers lock together to give perfect text alignment
- Vibration resistant markers, WIC markers lock onto wire and cable tightly
- WIC tool holds 20 WIC markers in all four sizes
- Gripping system locks markers onto wire and resists rotation
- Available in yellow, white and international resistor colour code
- Popular 2 digit markings such as L1, L2, L3, PE are available in yellow or colour code
- Dispenser colour denotes marker size: WIC0 (green), WIC1 (red), WIC2 (blue), WIC3 (yellow)
- Two accessories available to identify cables from 2.5 mm² to 95 mm² (WICA-AC10-25 and WICA-ACT-BK)

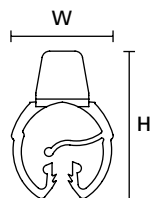


WIC cable markers and accessories.

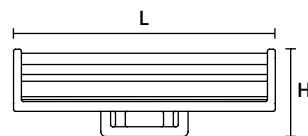
MATERIAL	Polyamide 6.6, high impact modified, heat stabilised (PA66HIRHS)	Polyamide 6, glass-fibre reinforced (PA6GF15%)
Operating Temperature	-40 °C to +85 °C, (+105 °C, 500 h)	-40 °C to +85 °C
Flammability	UL 94 HB	UL 94 V0



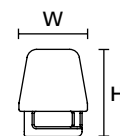
WICA-AC (front view)



WICA-AC (side view)



WICA-ACT (front view)

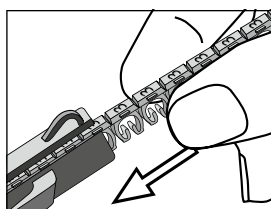


WICA-ACT (side view)

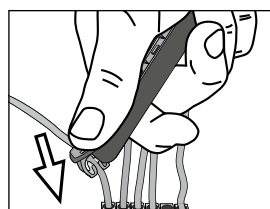
TYPE	Description	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Length (L)	Material	Marker tiles per carrier	Pack Cont.	Article-No.
WICA-AC10-25	Snap-on accessory	5.5	9.5	13.5	19.4	25.8	PA66HIRHS	8	100 pcs.	561-06001
WICA-ACT-BK	WIC adapter set for fixing with cable ties	3.0	38.0	7.0	8.9	26.7	PA66HIRHS	8	100 pcs.	561-06000
WIC Tool	Applicator	-	-	-	-	-	PA6GF15	-	5 pcs.	561-00001

All dimensions in mm. Subject to technical changes.

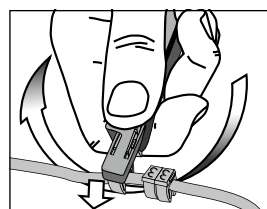
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



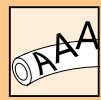
Step 1



Step 2



Step 3



Pre-printed cable markers

Helagrip, slide on, chevron cut

The Helagrip range consists of pre-printed markers that slide easily onto cables and wires. The anti-skew chevron-cut ensures that markers are locked together and stay in place.

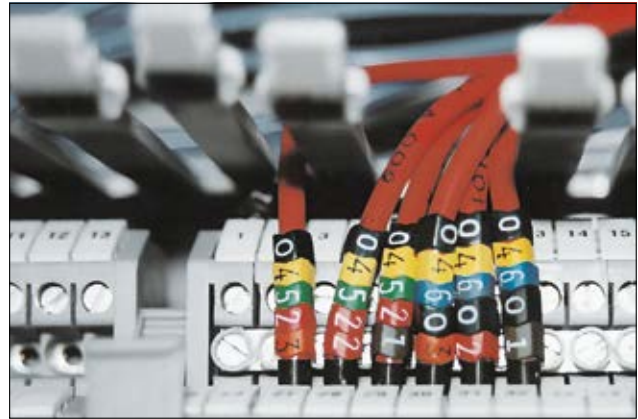
The markers are ideally suited for panel building, mass transit, utilities, telecommunications and electrical contracting.

Markers are available as standard in international resistor colour code and yellow material marked in black. White material marked in black is available to special order.

Characters are 0-9, A-Z and standard electrical symbols.

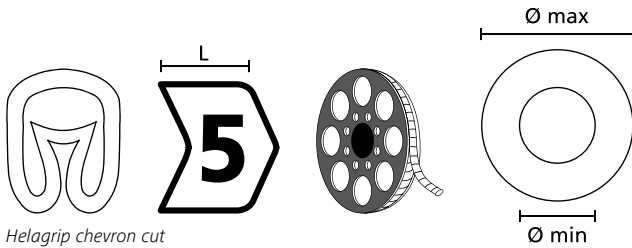
Features and benefits

- Easily apply one size marker to wide range of cables
- Markers are applied before termination takes place
- Chevron cut to lock markers together ensuring text remains in place
- Traditional wire marking available in yellow, white and colour code
- Flexible material so product returns securely on the wire
- Applicator tool TJC available



Clearly a better way to identify in confined spaces.

MATERIAL	Flexible Polyvinyl Chloride, cadmium free (PVC)
Operating Temperature	-65 °C to +105 °C, intermittent +135 °C
Flammability	UL 94 V0 (3 mm)



Helagrip chevron cut

i The products have been tested in-house according to UL224.

TYPE	Bundle Ø min.	Bundle Ø max.	Length (L)	Pack Cont.
HGDC1-3	1.0	3.0	3.5	1,000 pcs.
HGDC2-5	2.0	5.0	3.5	1,000 pcs.
HGDC4-9	4.0	9.0	5.0	250 pcs.

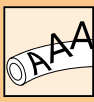
All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. More colours on request.

TYPE	Description	For Size	Article-No.
TJC1-3	Applicator tool TJC1-3	Helagrip 1-3	518-00113
TJC2-5	Applicator tool TJC2-5	Helagrip 2-5	518-00125
TJC4-9	Applicator tool TJC4-9	Helagrip 4-9	518-00149

Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content.

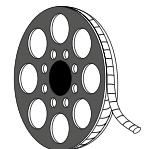
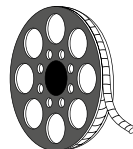


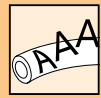
HGDC1-3	
Article-No.	
A	515-01014
B	515-01024
C	515-01034
D	515-01044
E	515-01054
F	515-01064
G	515-01074
H	515-01084
I	515-01094
J	515-01104
K	515-01114
L	515-01124
M	515-01134
N	515-01144
O	515-01154
P	515-01164
Q	515-01174
R	515-01184
S	515-01194
T	515-01204
U	515-01214
V	515-01224
W	515-01234
X	515-01244
Y	515-01254
Z	515-01264

HGDC1-3	
Article-No.	
0	515-01604
1	515-01614
2	515-01624
3	515-01634
4	515-01644
5	515-01654
6	515-01664
7	515-01674
8	515-01684
9	515-01694
→	515-01704
→	515-01714
↑	515-01724
→	515-01734
→	515-01804
0	515-01600
1	515-01611
2	515-01622
3	515-01633
4	515-01644
5	515-01655
6	515-01666
7	515-01677
8	515-01688
9	515-01699

HGDC2-5	
Article-No.	
A	515-02014
B	515-02024
C	515-02034
D	515-02044
E	515-02054
F	515-02064
G	515-02074
H	515-02084
I	515-02094
J	515-02104
K	515-02114
L	515-02124
M	515-02134
N	515-02144
O	515-02154
P	515-02164
Q	515-02174
R	515-02184
S	515-02194
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U	515-02214
V	515-02224
W	515-02234
X	515-02244
Y	515-02254
Z	515-02264

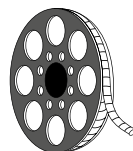
HGDC2-5	
Article-No.	
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1	515-02614
2	515-02624
3	515-02634
4	515-02644
5	515-02654
6	515-02664
7	515-02674
8	515-02684
9	515-02694
→	515-02704
→	515-02714
→	515-02715
↑	515-02724
→	515-02734
0	515-02600
1	515-02611
2	515-02622
3	515-02633
4	515-02644
5	515-02655
6	515-02666
7	515-02677
8	515-02688
9	515-02699

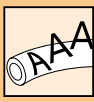




HGDC4-9	
Article-No.	
A	515-03014
B	515-03024
C	515-03034
D	515-03044
E	515-03054
F	515-03064
G	515-03074
H	515-03084
I	515-03094
J	515-03104
K	515-03114
L	515-03124
M	515-03134
N	515-03144
O	515-03154
P	515-03164
Q	515-03174
R	515-03184
S	515-03194
T	515-03204
U	515-03214
V	515-03224
W	515-03234
X	515-03244
Y	515-03254
Z	515-03264

HGDC4-9	
Article-No.	
0	515-03604
1	515-03614
2	515-03624
3	515-03634
4	515-03644
5	515-03654
6	515-03664
7	515-03674
8	515-03684
9	515-03694
+	515-03704
→	515-03714
↑	515-03724
•	515-01946
→	515-01947
0	515-03600
1	515-03611
2	515-03622
3	515-03633
4	515-03644
5	515-03655
6	515-03666
7	515-03677
8	515-03688
9	515-03699





Pre-printed cable markers

Ovalgrip, slide on, straight cut

The Ovalgrip range consists of pre-printed markers that slide easily onto cables and wires. The markers are ideally suited to panel building, mass transit, utilities, telecommunications and electrical contracting.

These markers are supplied as standard on a disk / reel.

They are available as a standard in yellow material marked in black, and international resistor colour code. Characters are 0-9, A-Z and standard electrical symbols.

White material marked in black available on special request.

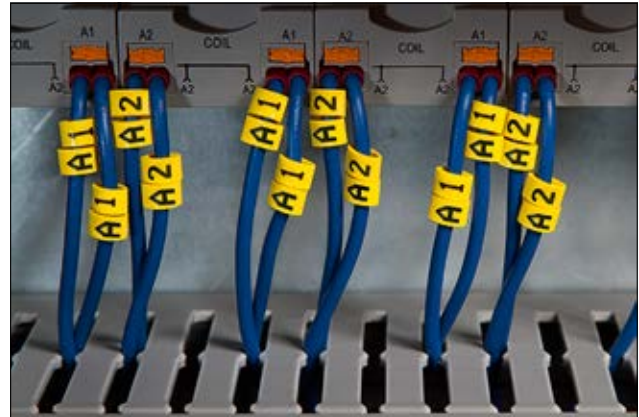
AT1 Arrowtags will fit 7 size 50 markers.

AT2 Arrowtags will fit 8 size 85 markers.

AT3 Arrowtags will fit 14 size 85 markers.

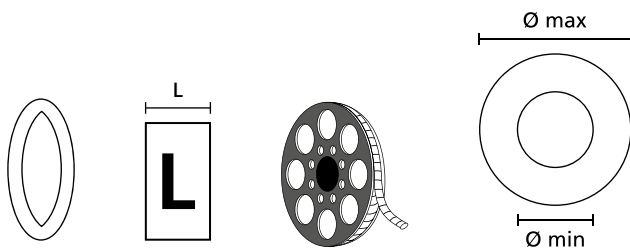
Features and benefits

- Oval shaped markers designed to fit AT1, AT2 or AT3 (depends on Ovalgrip size)
- Ideal for use in maintenance and repair and fixed with cable ties
- Direct application to wire and cable before termination is also recommended



A simple idea for complex marking needs.

MATERIAL	Flexible Polyvinyl Chloride, cadmium free (PVC)
Operating Temperature	-65 °C to +105 °C, intermittent +135 °C
Flammability	UL 94 V0 (3 mm)



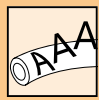
Ovalgrip straight cut

i The products have been tested in-house according to UL224.

TYPE	Bundle Ø min.	Bundle Ø max.	Length (L)	Pack Cont.	For Size
HODS50	1.7	3.7	4.0	1,000 pcs.	AT1
HODS85	1.8	6.0	4.5	1,000 pcs.	AT2/AT3

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. More colours on request.

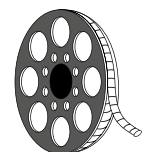
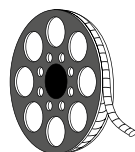


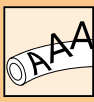
HODS50	
Article-No.	
A	531-15014
B	531-15024
C	531-15034
D	531-15044
E	531-15054
F	531-15064
G	531-15074
H	531-15084
I	531-15094
J	531-15104
K	531-15114
L	531-15124
M	531-15134
N	531-15144
O	531-15154
P	531-15164
Q	531-15174
R	531-15184
S	531-15194
T	531-15204
U	531-15214
V	531-15224
W	531-15234
X	531-15244
Y	531-15254
Z	531-15264

HODS50	
Article-No.	
0	531-15274
1	531-15284
2	531-15294
3	531-15304
4	531-15314
5	531-15324
6	531-15334
7	531-15344
8	531-15354
9	531-15364
.	531-00174
/	531-00175
≡	531-00176
+	531-00451
-	531-00452
0	531-15365
1	531-15366
2	531-15367
3	531-15368
4	531-15314
5	531-15370
6	531-15371
7	531-15372
8	531-15373
9	531-15374

HODS85	
Article-No.	
A	531-07935
B	531-07936
C	531-07937
D	531-07938
E	531-07939
F	531-07940
G	531-07941
H	531-07942
I	531-07943
J	531-07944
K	531-07945
L	531-07946
M	531-07947
N	531-07948
O	531-07949
P	531-07950
Q	531-07951
R	531-07952
S	531-07953
T	531-07954
U	531-07955
V	531-07956
W	531-07957
X	531-07958
Y	531-07959
Z	531-07960

HODS85	
Article-No.	
0	531-07925
1	531-07926
2	531-07927
3	531-07928
4	531-07732
5	531-07930
6	531-07931
7	531-07932
8	531-07933
9	531-07934
.	531-00384
/	531-07961
≡	531-00386
+	531-07924
-	531-07923
0	531-07728
1	531-07729
2	531-07730
3	531-07731
4	531-07732
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6	531-07734
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8	531-07736
9	531-07737





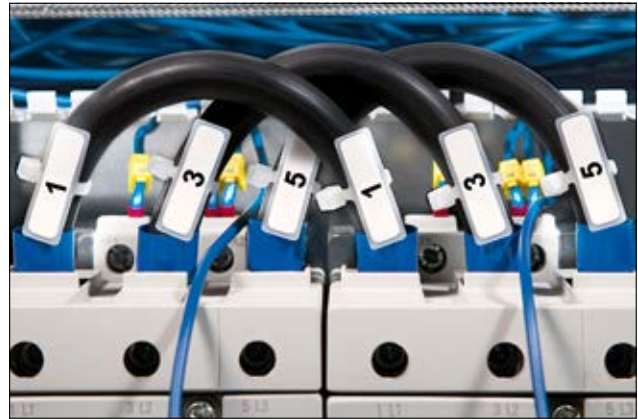
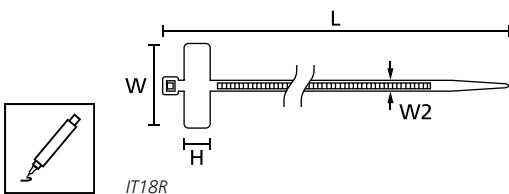
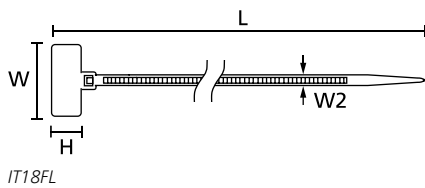
Identification ties and plates for marking cable bundles

IT Ties

One of the major benefits is the ability to both secure and identify cable bundles at different times.

Features and benefits


- Identification ties made of Polyamide 6.6
- For simple identification and securing of cable bundles in one step
- Printable labels are available for a professional finish
- Manual or temporary marking is possible with an indelible pen (T82S-BK / T82R-RD)



One operation with two user benefits.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V2



TYPE	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Length (L)	Width (W2)		Recommended Labels	Pack Cont.	Colour	Article-No.
IT18FL	1.5	19.0	20.5	9.0	110.0	2.5	80	TAG18-07TD1	100 pcs.	Natural (NA)	111-81919
IT18R	6.0	22.0	25.0	8.0	100.0	2.3	80	TAG23-06TD1	100 pcs.	Natural (NA)	111-81821

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. More colours on request.

 = Minimum Loop Tensile Strength for Cable Ties (Newton)

Labels for IT ties, IMP plates and Q-tags, thermal transfer

Helatag 892 (White)

MATERIAL	Type 892, Vinyl, white (892)
Operating Temperature	-40 °C to +80 °C
Curing Temperature	from 0 °C
Adhesive	Acrylic
Thickness of Foil	83 µm
Chem. Material Properties	Good resistance against water, oils and most solvents.
Recommended Ribbon Type	TT822OUT
Thermal Transfer Printer	TT431, TT4030



TYPE	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	For Size	Pack Cont.	Colour	Article-No.
TAG18-07TD1-892-WH	18.0	7.0	24.0	1 pc.	IT18FL	5,000 pcs.	White (WH)	596-12253
TAG23-06TD1-892-WH	23.0	6.0	30.0	1 pc.	IT18R	5,000 pcs.	White (WH)	596-12255

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Labels for control panel identification, thermal transfer

Helatag 880, removable

Helatag 1211 (Yellow gloss)

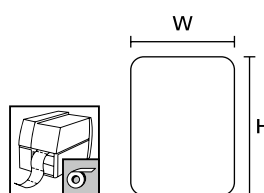
These labels are suitable for the permanent identification of components and preassembled units within electrical industry as well as asset identification. Print with HellermannTyton's premium range of thermal transfer printers and ribbons for optimum print results. They can also be used in the design and setup as well as in the repair and expansion of control cabinets and control units. Due to the structure of the vinyl label they are suitable for rougher surfaces.

Features and benefits

- Suited to labelling electrical panels
- Where high label visibility is required
- Partially suitable for critical surfaces
- Rounded corners ensure better long term durability of adhesion



Switchgear application.



MATERIAL	Type 880, Vinyl (880)
Operating Temperature	-40 °C to +80 °C
Curing Temperature	from +10 °C
Adhesive	Acrylic
Thickness of Foil	80 µm
Chem. Material Properties	Good resistance to water, oil and most solvents.
Recommended Ribbon Type	TT822OUT
Thermal Transfer Printer	TT431, TT4030

MATERIAL	Type 1211, Vinyl, yellow gloss (1211)
Operating Temperature	-20 °C to +80 °C
Curing Temperature	from +5 °C
Adhesive	Acrylic
Thickness of Foil	84 µm
Chem. Material Properties	Resistant to water, alcohol, most oils, greases, fuel, aliphatic solvents, weak acids, salts and alkalis.
Recommended Ribbon Type	TT822OUT
Thermal Transfer Printer	TT431, TT4030

RoHS ✓

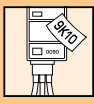
RoHS ✓

TYPE	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG15-09TE-880-YE	15.0	9.0	89.0	5 pcs.	10,000 pcs.	Yellow matt (MTYE)	596-12174
TAG16-06TE-880-YE	16.5	6.0	101.6	5 pcs.	20,000 pcs.	Yellow matt (MTYE)	596-12172
TAG19-11TE-880-YE	19.0	11.0	89.0	4 pcs.	10,000 pcs.	Yellow matt (MTYE)	596-12175
TAG20-08TE-880-YE	20.0	8.0	101.6	4 pcs.	10,000 pcs.	Yellow matt (MTYE)	596-12173
TAG38-11TE-880-YE	38.0	11.0	85.1	2 pcs.	5,000 pcs.	Yellow matt (MTYE)	596-12176
TAG56-22TE-880-YE	56.0	22.0	62.0	1 pc.	2,000 pcs.	Yellow matt (MTYE)	596-12177

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

TYPE	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG15-09TE-1211-YE	15.0	9.0	89.0	5 pcs.	10,000 pcs.	Yellow gloss (GSYE)	596-21211
TAG16-06TE-1211-YE	16.5	6.0	101.6	5 pcs.	20,000 pcs.	Yellow gloss (GSYE)	596-01211
TAG20-08TE-1211-YE	20.0	8.0	101.6	4 pcs.	10,000 pcs.	Yellow gloss (GSYE)	596-11211
TAG38-11TE-1211-YE	38.0	11.0	85.1	2 pcs.	5,000 pcs.	Yellow gloss (GSYE)	596-41211
TAG56-22TE-1211-YE	56.0	22.0	62.0	1 pc.	2,000 pcs.	Yellow gloss (GSYE)	596-51211

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Labels for control panel identification, thermal transfer

Helatag 1216 (White) for rough surfaces

These labels are suitable for the permanent identification of components and preassembled units within electrical industry as well as asset identification. Print with HellermannTyton's premium range of thermal transfer printers and ribbons for optimum print results. They can also be used in the design and setup as well as in the repair and expansion of control cabinets and control units.

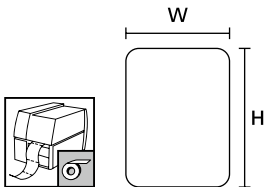
Features and benefits

- Suited to labelling electrical panels
- White labels give excellent contrast
- Also suitable for critical surfaces
- Rounded corners ensure better long term durability of adhesion



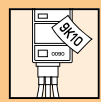
Clear and permanent identification of switch gears.

MATERIAL	Type 1216, Polyethylene, white (1216)
Operating Temperature	-30 °C to +60 °C
Curing Temperature	from 0 °C
Adhesive	Acrylic
Thickness of Foil	110 µm
Chem. Material Properties	Resistant to water, alcohol, most oils, greases, fuel, aliphatic solvents, weak acids, salts and alkalis.
Recommended Ribbon Type	TT822OUT
Thermal Transfer Printer	TT431, TT4030



TYPE	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG05-08TC-1216-WH	5.0	8.0	85.0	16 pcs.	25,000 pcs.	White (WH)	596-12147
TAG05-15TC-1216-WH	5.0	15.0	85.0	16 pcs.	25,000 pcs.	White (WH)	596-12151
TAG06-10TC-1216-WH	6.0	10.0	85.0	13 pcs.	25,000 pcs.	White (WH)	596-12149
TAG08-15TC-1216-WH	8.0	15.0	85.0	10 pcs.	25,000 pcs.	White (WH)	596-12152

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Labels for control panel identification, laser printer

Helatag 1102 (Yellow)

These yellow labels come in various sizes and are ideal for marking flat surfaces inside control panels to ensure easy wire and cable management. The labels can be easily printed with office laser printers. All label templates are already stored in HellermannTyton's Tagprint Pro 3.0 software so label design including barcodes or logos has been made easy even with office printers.

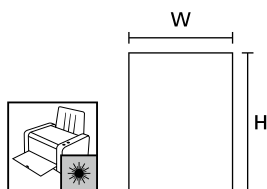
Features and benefits

- Yellow rating labels for component marking and control cabinets
- For use on flat and smooth surfaces
- Crisp and clear text, barcodes and graphics
- Simple and efficient label design and printing with TagPrint Pro labelling software
- Templates available from www.HellermannTyton.com for those wishing to use MS Word
- Clear protective box to ensures labels stay as good as new



Clearly identified labels ensure easy network wire and cable management.

MATERIAL	Type 1102, Polyester, yellow (1102)
Operating Temperature	-40 °C to +150 °C
Curing Temperature	from 0 °C
Adhesive	Acrylic
Thickness of Foil	55 µm
Chem. Material Properties	Excellent resistance against water, alcohol, most oils, lubricants, fuels, aliphatic solvents, weak acid, salts, alkalis and UV light.



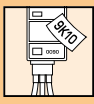
TYPE	Width (W)	Height (H)	Labels per Sheet	Sheets per Pack	Pack Cont.	Colour	Article-No.
TAG122LA4-1102-YE	15.0	9.0	372 pcs.	27 pcs.	10,000 pcs.	Yellow (YE)	594-21102
TAG120LA4-1102-YE	15.2	6.4	528 pcs.	19 pcs.	10,000 pcs.	Yellow (YE)	594-01102
TAG154LA4-1102-YE	17.0	9.0	341 pcs.	30 pcs.	10,000 pcs.	Yellow (YE)	594-51102
TAG124LA4-1102-YE	19.0	11.0	260 pcs.	20 pcs.	5,000 pcs.	Yellow (YE)	594-41102
TAG13LA4-1102-YE	19.1	6.4	440 pcs.	23 pcs.	10,000 pcs.	Yellow (YE)	594-31102
TAG121LA4-1102-YE	20.0	8.0	315 pcs.	32 pcs.	10,000 pcs.	Yellow (YE)	594-11102
TAG62LA4-1102-YE	31.8	9.5	180 pcs.	28 pcs.	5,000 pcs.	Yellow (YE)	594-81102

All dimensions in mm. Subject to technical changes.

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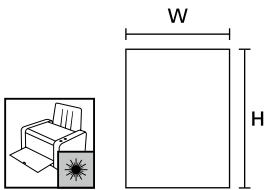
Labels for control panel identification, laser printer

Helatag 1101 (White)

These white labels come in various sizes and are ideal for marking flat surfaces inside control panels to ensure easy wire and cable management. The labels can be easily printed with office laser printers. All label templates are already stored in HellermannTyton's Tagprint Pro 3.0 software so label design including barcodes or logos has been made easy even with office printers.

Features and benefits

- White rating labels for component marking as well as for control cabinets
- For use on flat and smooth surfaces
- Crisp and clear text, barcodes and graphics
- Simple and efficient label design and printing with TagPrint Pro labelling software
- Templates available from www.HellermannTyton.com for those wishing to use MS Word
- Clear protective box to ensures labels stay as good as new



Clearly identified labels ensure easy network wire and cable management.

MATERIAL	Type 1101, Polyester, white (1101)
Operating Temperature	-40 °C to +150 °C
Curing Temperature	from 0 °C
Adhesive	Acrylic
Thickness of Foil	55 µm
Chem. Material Properties	Excellent resistance against water, alcohol, most oils, lubricants, fuels, aliphatic solvents, weak acid, salts, alkalis and UV light.

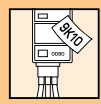


TYPE	Width (W)	Height (H)	Labels per Sheet	Sheets per Pack	Pack Cont.	Colour	Article-No.
TAG156LA4-1101-WH	10.2	10.2	532 pcs.	19 pcs.	10,000 pcs.	White (WH)	594-81101
TAG122LA4-1101-WH	15.0	9.0	372 pcs.	27 pcs.	10,000 pcs.	White (WH)	594-31101
TAG120LA4-1101-WH	15.2	6.4	528 pcs.	19 pcs.	10,000 pcs.	White (WH)	594-11101
TAG11LA4-1101-WH	16.5	5.1	605 pcs.	17 pcs.	10,000 pcs.	White (WH)	594-01101
TAG154LA4-1101-WH	17.0	9.0	341 pcs.	30 pcs.	10,000 pcs.	White (WH)	594-61101
TAG124LA4-1101-WH	19.0	11.0	260 pcs.	20 pcs.	5,000 pcs.	White (WH)	594-11017
TAG13LA4-1101-WH	19.1	6.4	440 pcs.	23 pcs.	10,000 pcs.	White (WH)	594-41101
TAG121LA4-1101-WH	20.0	8.0	315 pcs.	32 pcs.	10,000 pcs.	White (WH)	594-21101
TAG155LA4-1101-WH	25.4	8.5	231 pcs.	22 pcs.	5,000 pcs.	White (WH)	594-71101
TAG15LA4-1101-WH	25.4	12.7	154 pcs.	33 pcs.	5,000 pcs.	White (WH)	594-91101
TAG162LA4-1101-WH	38.1	12.7	110 pcs.	23 pcs.	2,500 pcs.	White (WH)	594-11010

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



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Cotton cloth labels, manual marking

HELASIGN, Material 270 (Yellow), Booklet

These handwritten labels are made of yellow fabric and have been designed for fast on-site identification of component parts, switching devices and other operating equipment. The synthetic rubber adhesive allows the easy removal or repositioning of the label when needed. For professional handwriting we recommend the marking pen T82, equipped with a fast-drying and UV-resistant ink.

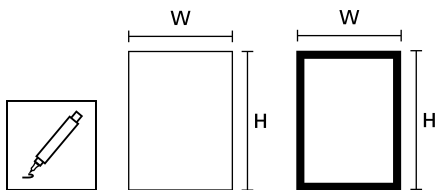
Features and benefits

- Yellow fabric adhesive labels
- Supplied in handy pocket-sized booklets
- Booklet cover protects labels when stored
- Easily remove or reposition labels as required
- No sticky residue on removal
- Labels available with or without black border
- Also suitable for difficult surfaces
- Use T82 marker pen for market leading mark endurance



Always on hand: Labels in a convenient, pocket sized and lightweight booklet.

MATERIAL	Type 270, Cotton cloth, yellow (270)
Operating Temperature	-29 °C to +80 °C
Curing Temperature	from +10 °C
Adhesive	Synthetic rubber
Thickness of Foil	150 µm
Chem. Material Properties	Good resistance to water, oils and most solvents, alcohols and gasoline.



RoHS

TYPE	Drawing	Width (W)	Height (H)	Labels per Sheet	Pack Cont.	Colour	Article-No.
TAG122B-270-YE		15.0	9.0	70 pcs.	700 pcs.	Yellow (YE)	598-12227
TAG120B-270-YE		15.0	6.0	105 pcs.	1,050 pcs.	Yellow (YE)	598-12027
TAG124B-270-YE		19.0	11.0	44 pcs.	440 pcs.	Yellow (YE)	598-12427
TAG121B-270-YE		20.0	8.0	60 pcs.	600 pcs.	Yellow (YE)	598-12127
TAG122FB-270-YE		15.0	9.0	70 pcs.	700 pcs.	Yellow (YE)	598-92227
TAG124FB-270-YE		19.0	11.0	44 pcs.	440 pcs.	Yellow (YE)	598-92427
TAG121FB-270-YE		20.0	8.0	60 pcs.	600 pcs.	Yellow (YE)	598-92127
TAG125FB-270-YE		38.0	11.0	22 pcs.	220 pcs.	Yellow (YE)	598-92527

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

TYPE	Description	Pack Cont.	Colour	Article-No.
T82S-BK	Indelible Marker Pen	2 pcs.	Black (BK)	500-50820
T82R-RD	Indelible Marker Pen	2 pcs.	Red (RD)	500-50822

Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Panel plate labels, thermal transfer

Helatag 1220 (White)

Panel labels are durable adhesive labels especially made from a thick material that is designed to replace traditional engraved plastic plates. The white glossy colour is suited to industrial control panels, switchgear, data racks and general equipment labelling.

Create crisp and clear professional looking labels by printing with HellermannTyton thermal transfer printers and ribbons.

Simple label design creation is easily achieved using TagPrint Pro.

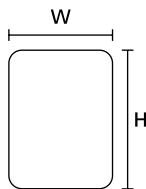
Features and benefits

- Cost-effective replacement for engraved plastic plates, no need for additional label holder
- High performance adhesive and compressible foam backing ensures optimal adhesion to uneven surfaces if required
- Rounded corners ensure better long term durability of adhesion
- Print high contrast text and barcodes
- Print 'On Site' not order 'Off Site'
- Special sizes and colours are possible on request
- For outstanding chemical resistance use TT122OUT



Panel labels Helatag 1220 – high performance adhesive ensures optimal adhesion to uneven surfaces.

MATERIAL	Type 1220, Polyester, white (1220)
Operating Temperature	-40 °C to +90 °C
Curing Temperature	+10 °C
Adhesive	Acrylic
Thickness of Foil	50 µm
Chem. Material Properties	Excellent resistance to ageing, weathering and UV-radiation. Extensive resistance to the influence of chemicals and solvents.
Recommended Ribbon Type	TT122OUT, TT822OUT
Thermal Transfer Printer	TT431, TT4030



TYPE	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG13-07TDK1-1220-WH	13.0	7.0	21.0	1 pc.	1,000 pcs.	White (WH)	596-00560
TAG22-22TDK1-1220-WH	22.0	22.0	28.0	1 pc.	1,000 pcs.	White (WH)	596-00561
TAG27-08TDK1-1220-WH	27.0	8.0	33.0	1 pc.	1,000 pcs.	White (WH)	596-00562
TAG27-12.5TDK1-1220-WH	27.0	12.5	33.0	1 pc.	1,000 pcs.	White (WH)	596-00558
TAG27-15TDK1-1220-WH	27.0	15.0	33.0	1 pc.	1,000 pcs.	White (WH)	596-00563
TAG27-18TDK1-1220-WH	27.0	18.0	33.0	1 pc.	1,000 pcs.	White (WH)	596-00564
TAG27-27TDK1-1220-WH	27.0	27.0	33.0	1 pc.	1,000 pcs.	White (WH)	596-00565
TAG35-18TDK1-1220-WH	35.0	18.0	41.0	1 pc.	1,000 pcs.	White (WH)	596-00566
TAG45-15TDK1-1220-WH	45.0	15.0	51.0	1 pc.	1,000 pcs.	White (WH)	596-00567
TAG45-25TDK1-1220-WH	45.0	25.0	51.0	1 pc.	1,000 pcs.	White (WH)	596-00568
TAG60-30TDK1-1220-WH	60.0	30.0	66.0	1 pc.	500 pcs.	White (WH)	596-00569
TAG90-45TDK1-1220-WH	90.0	45.0	96.0	1 pc.	500 pcs.	White (WH)	596-00570
TAG100-30TDK1-1220-WH	100.0	30.0	106.0	1 pc.	250 pcs.	White (WH)	596-00571
TAG100-70TDK1-1220-WH	100.0	70.0	106.0	1 pc.	250 pcs.	White (WH)	596-00572

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Type label identification, thermal transfer

Helatag 1204 (Silver-matt)

This silver-matt label is scratch-resistant and is ideal for usage as identification or name plate in industrial environments. The high temperature range suits a wide range of applications on flat surfaces. The adhesive is also suitable for critical surfaces like plastic and paint. Designing and printing labels is simple and users can quickly print out professional labels in a matter of moments when using TagPrint Pro labelling software.

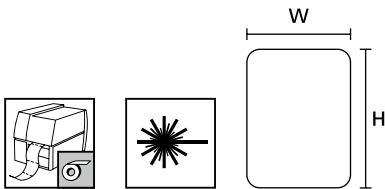
Features and benefits

- Replacement option for aluminium plates
- For applications on flat surfaces
- Allows the identification on critical surfaces, e.g. paints and plastic variants
- Print labels with customer unique references
- Use text, graphics and barcodes as required



Professional type plate on a heating unit.

MATERIAL	Type 1204, Polyester (1204)
Operating Temperature	-40 °C to +150 °C
Curing Temperature	from 0 °C
Adhesive	Acrylic
Thickness of Foil	55 µm
Chem. Material Properties	Excellent resistance to water, alcohol, most oils, greases, fuel, aliphatic solvents, weak acids, salts and alkalis.
Recommended Ribbon Type	TT822OUT
Thermal Transfer Printer	TT431, TT4030



TYPE	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG71TD6-1204-SR	12.7	11.1	101.6	6 pcs.	15,000 pcs.	Silver-matt (MTRS)	596-12071
TAG13TD4-1204-SR	19.1	6.4	101.6	4 pcs.	10,000 pcs.	Silver-matt (MTRS)	596-12043
TAG34TD3-1204-SR	25.4	9.5	85.1	3 pcs.	7,500 pcs.	Silver-matt (MTRS)	596-34120
TAG15TD3-1204-SR	25.4	12.7	85.1	3 pcs.	7,500 pcs.	Silver-matt (MTRS)	596-12045
TAG35TD3-1204-SR	31.8	9.5	101.6	3 pcs.	7,500 pcs.	Silver-matt (MTRS)	596-12035
TAG17TD2-1204-SR	38.1	6.4	85.1	2 pcs.	5,000 pcs.	Silver-matt (MTRS)	596-12047

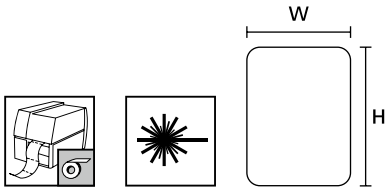
All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.





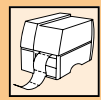
Type label identification, thermal transfer

Helatag 1204 (Silver-matt)



TYPE	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG27TD2-1204-SR	38.1	19.1	85.1	2 pcs.	5,000 pcs.	Silver-matt (MTSR)	596-27120
TAG67TD2-1204-SR	38.1	31.8	85.1	2 pcs.	1,000 pcs.	Silver-matt (MTSR)	596-12067
TAG69TD2-1204-SR	40.6	22.9	89.0	2 pcs.	2,500 pcs.	Silver-matt (MTSR)	596-12069
TAG77TD1-1204-SR	50.8	22.9	55.0	1 pc.	2,000 pcs.	Silver-matt (MTSR)	596-12077
TAG73TD1-1204-SR	50.8	25.4	55.0	1 pc.	2,000 pcs.	Silver-matt (MTSR)	596-73124
TAG66TD1-1204-SR	50.8	36.5	56.8	1 pc.	1,000 pcs.	Silver-matt (MTSR)	596-12066
TAG63TD1-1204-SR	63.5	38.1	70.0	1 pc.	1,000 pcs.	Silver-matt (MTSR)	596-12063
TAG76TD1-1204-SR	63.5	50.8	70.0	1 pc.	500 pcs.	Silver-matt (MTSR)	596-12076
TAG72TD1-1204-SR	69.9	31.8	76.0	1 pc.	1,000 pcs.	Silver-matt (MTSR)	596-12072
TAG65TD1-1204-SR	76.2	36.5	82.0	1 pc.	1,000 pcs.	Silver-matt (MTSR)	596-12065
TAG62TD1-1204-SR	76.2	50.8	82.0	1 pc.	500 pcs.	Silver-matt (MTSR)	596-12062
TAG64TD1-1204-SR	88.9	36.5	95.0	1 pc.	1,000 pcs.	Silver-matt (MTSR)	596-12064
TAG97TD1-1204-SR	101.6	74.0	106.0	1 pc.	500 pcs.	Silver-matt (MTSR)	596-71204
TAG02TD1-1204-SR	104.0	12.0	104.0	1 pc.	5,000 pcs.	Silver-matt (MTSR)	596-21204
TAGR3TD1-1204-SR	104.0	75,000.0	108.0	1 pc.	75.0 m	Silver-matt (MTSR)	596-31204

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Thermal transfer printer

TT431, Small to medium volume printing

The TT431 thermal transfer printer is perfect for printing on HellermannTyton materials such as self-adhesive labels, shrinkable tubing and identification tags. Thanks to its low weight and compact construction, the TT431 integrates seamlessly into any workstation. It is easy to use due to its intuitive colour LCD touch display and clear status messages which can be shown in multiple languages. The optional cutter and perforator make this printer ideal for a wide range of applications. 300 dpi resolution ensures that barcodes, warning symbols, logos and text are as sharp as they can be.

Features and benefits

- Small to medium volume single sided printing
- Print on HellermannTyton cable markers and labels
- Uses standard ribbons
- Barcodes: standard and 2D
- Print speed up to 150 mm/s
- Adjustable label sensor
- Multiple language selection
- Windows drivers: 32/64 bit for Windows Vista, Windows 7, 8 and 10



TT431 thermal transfer printer designed for ease of operation.

Print Method	Thermal transfer
Print Head Type	300 dpi, flat type
Print Speed	up to 150 mm/s
Max. Print Width	106 mm
Label Height Max (metric)	4,000 mm
Interfaces	USB 2.0, Ethernet 10/100 Base T, RS232
Supported Barcodes, Printer	Standard and 2D
Printer Memory	256 MB RAM
Dimensions W x H x D	253 mm x 189 mm x 322 mm
Weight	4 kg



TYPE	Pack Cont.	Article-No.
TT431	1 pc.	556-00400

All dimensions in mm. Subject to technical changes.

TYPE	Description	Article-No.
S430 Cutter	Cutter for TT430/TT431	556-00452
P430 Perforator	Perforator for TT430/TT431	556-00456
TT External Reel Holder	External Reel Holder	556-00451
TT430/TT431 300dpi Printhead	Printhead for TT430/TT431	556-00453
TT430/TT431 Print Roller	Print Roller for TT430/TT431	556-00454

Subject to technical changes.



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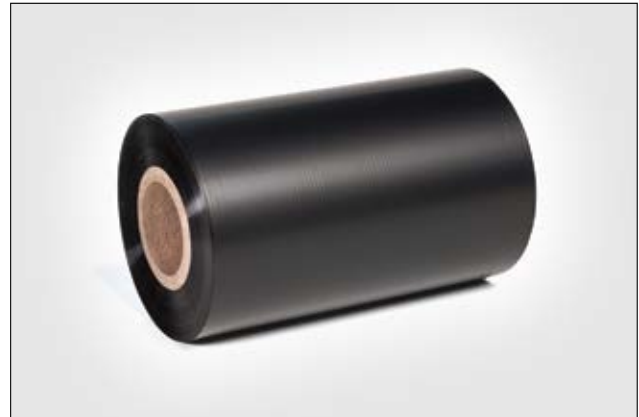
Thermal transfer ribbons for

Adhesive Labels

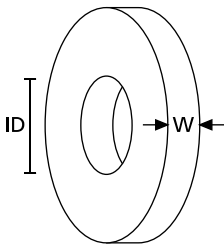
The thermal transfer print technology is based on heating up certain dots in the print head. This transfers the ink very precisely from the ribbon onto the surface of the printed material. All HellermannTyton ribbons consist of a special resin composition to maximise print performance. In combination with HellermannTyton printers the ribbons ensure the highest of print quality on all HellermannTyton thermal printable identification materials.

Features and benefits

- Thermal transfer ribbons for highest quality and performance of printed labels
- Ribbons are specifically designed to maximise print performance for the recommended material



Ribbons for printing on adhesive labels.



ID: The standard inside core diameter is 25.4 mm.

TYPE	Recommended Material	Colour	Width (W)	Reel Length	Article-No.
TT822OUT	323/823/880/892/951/1203/1204/1206/1208/1210/1211/1213/1216/1220/1221/1232	Black (BK)	60.0	300 m	556-00111
	323/823/880/892/951/1203/1204/1206/1208/1210/1211/1213/1216/1220/1221/1232	Black (BK)	110.0	300 m	556-00101
TT932DOUT 85MM	323/1209	Black (BK)	85.0	300 m	556-00117
TT932DOUT 110MM	323/1209	Black (BK)	110.0	300 m	556-00118
TT122OUT 60mm	1220/1221	Black (BK)	60.0	300 m	556-00060
TT122OUT 110mm	1220/1221	Black (BK)	110.0	300 m	556-00061

All dimensions in mm. Subject to technical changes.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



Thermal printer ribbons for

Heatshrink and Tiptags

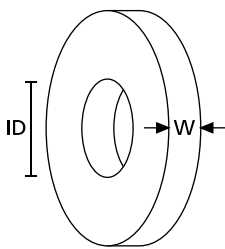
The thermal transfer print technology is based on heating up certain dots in the print head. This transfers the ink very precisely from the ribbon onto the surface of the printed material. All HellermannTyton ribbons consist of a special resin composition to maximise print performance. In combination with HellermannTyton printers the ribbons ensure the highest of print quality on all HellermannTyton thermal printable identification materials.

Features and benefits

- Thermal transfer ribbons for high quality print results on heat shrink tubing and Tiptag identification tags
- Ribbons are specifically designed to maximize print performance for the recommended material



Ribbons for printing on tubes and Tiptags.



ID: The standard inside core diameter is 25.4 mm.

TYPE	Recommended Material	Colour	Width (W)	Reel Length	Article-No.
TTDTHOUT 40MM	TCGT/TULT(DS)/TLFX(DS)/TDRT(DS)/TLFD DS/TIPTAG	Black (BK)	40.0	300 m	556-00139
TTDTHOUT 60MM	TCGT/TULT(DS)/TLFX(DS)/TDRT(DS)/TLFD DS/TIPTAG	Black (BK)	60.0	300 m	556-00140
TTDTHOUT 100MM	TCGT/TULT(DS)/TLFX(DS)/TDRT(DS)/TLFD DS/TIPTAG	Black (BK)	100.0	300 m	556-00141
TTRHTBK 70MM	THTT/THTT DS/TAGT	Black (BK)	70.0	300 m	556-00204

All dimensions in mm. Subject to technical changes.

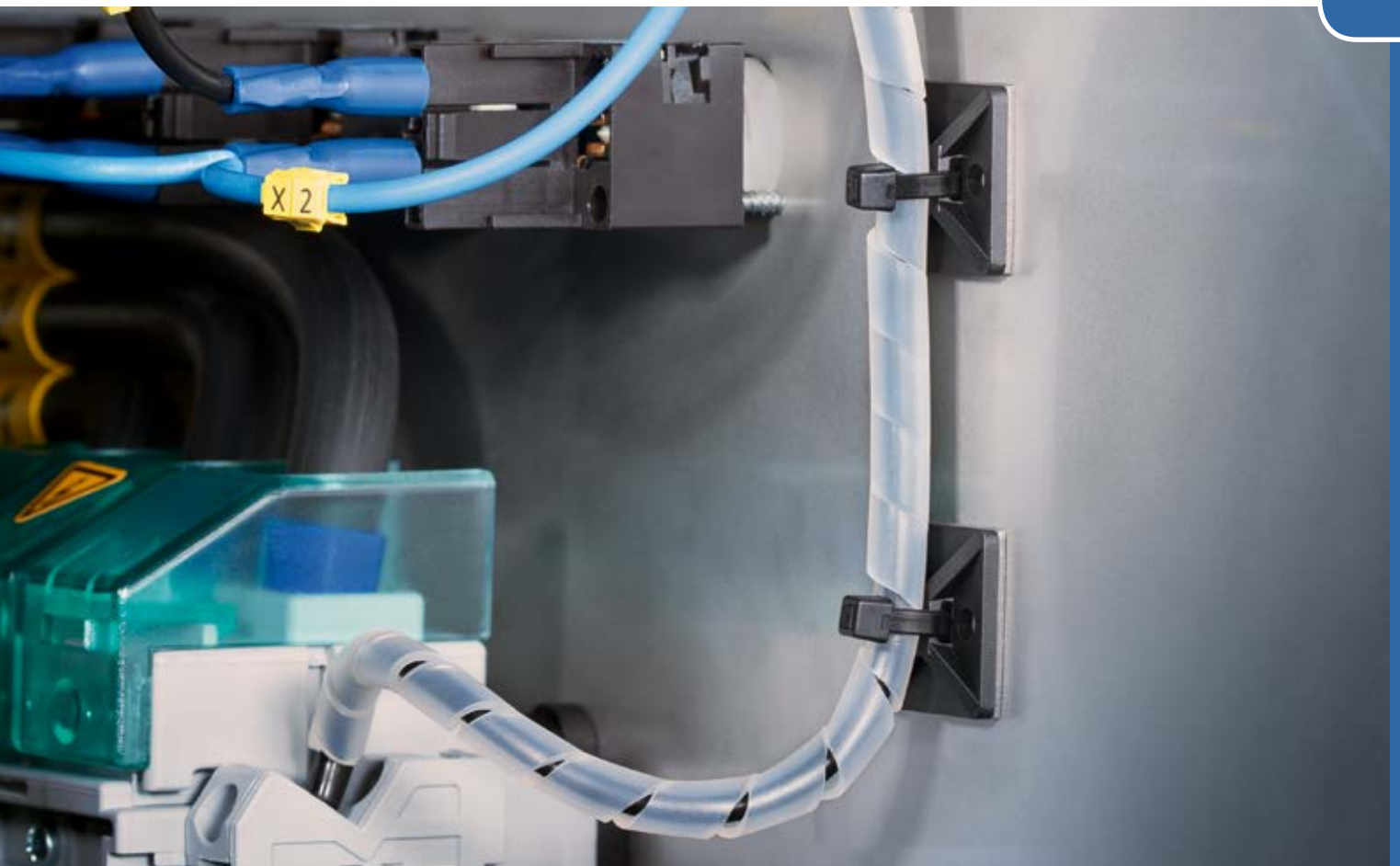


Even big things have small beginnings.

You have to work with what you've got – and that was exactly what our company founder Paul Hellermann did back in 1935. Inspired by the small rubber tube in bicycle valves, he developed a process for binding electric cables with rubber: the Hellermann grommet and three-pronged pliers. The first two of the hundreds of patents filed since then.

MADE FOR REAL 





Cable ties, inside serrated

T-Series		
standard, natural and black	PA66	73



Fixing products for holes

For round holes		
with fir tree and disc	FT5	74



Fixing products for edges

For edges		
1.0 - 3.0 mm	top fixing	75
	side fixing	75



Application Tooling for Cable Ties

Manual tensioning tool plastic housing	
EVO7, EVO7SP	76



Fixing products for self-adhesive fixing

Technical Information		
Installation of self-adhesive mounts		77
Self adhesive		
high performance adhesive, for round and angled surfaces	FlexTack-Series FMB	78
With high performance adhesive		
screwable, self adhesive	SolidTack-Series QM	79



Fixing products for screws

Plastic nuts		
	KM	80
Screwable		
	CTM-, KR-, MCKR-Series	81
for limited space	CTAM-Series	82
	MB-Series	83
Curved design		
screwable	TY-Series	83
Stainless steel mounts		
screwable	SSPC-Series SS316	84
Mounting plates		
screwable	MP-Series	85



MATERIAL	Material Shortcut	Operating Temperature	Colour**	Flammability	Material Properties*	Material Specifications
Polyamide 6.6	PA66	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK), Natural (NA)	UL 94 V2	• High yield strength	HF RoHS
Polyamide 6.6, heat stabilised	PA66HS	-40 °C to +105 °C	Black (BK), Natural (NA)	UL 94 V2	• High yield strength • Modified elevated maximum temperature	HF RoHS
Polyamide 6.6, high impact modified, heat stabilised	PA66HIRHS	-40 °C to +105 °C	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature • Modified elevated maximum temperature	RoHS
Polyamide 6.6, UV-resistant	PA66W	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL 94 V2	• High yield strength • UV resistant	HF RoHS
Stainless Steel, Stainless Steel	SS304, SS316	-80 °C to +538 °C	Natural (NA)	non-burning	• Corrosion resistant • Antimagnetic • Weather resistant • Chemical resistance • SS316 also resistant against seawater, salt spray and anorganic acids	HF LFH RoHS

Tefzel® is a registered trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel®-Tie. In addition to Tefzel® from DuPont HellermannTyton also uses equivalent E/TFE raw material from other suppliers.

**Further colours available on request.

*These details are only guide values. They should not be regarded as an exhaustive material specification and are no substitute for suitability tests. Please see our datasheets for further details.



= Minimum Loop Tensile Strength for Cable Ties (Newton)

HF = Halogenfree

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances



Cable ties polyamide 6.6 standard

T-Series in PA66 natural and black

T-Series cable ties for bundling and securing of cables, pipes and hoses. These cable ties can be used for nearly all kind of applications.

Features and benefits

- Available in a wide range of materials and sizes
- High tensile strength with very low insertion force
- Only high quality plastic is used meeting recycling targets
- Inside serrated cable ties for a strong hold onto bundles
- Ergonomic bent tail offers quick and simple installation
- Easy application either manually or with an application tool



Standard T-Series cable ties – for almost any type of application.



Material specification
please see page 72.



See website or main catalogue for full range!



T-Series

TYPE	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Pack Cont.	Tools	Article-No.
T18R	2.5	100.0	22.0	80	PA66	Natural (NA)	100 pcs.	2;4-6	111-01919
	2.5	101.6	22.0	80	PA66	Black (BK)	100 pcs.	2;4-6	111-01910
T30R	3.5	150.0	35.0	135	PA66	Natural (NA)	100 pcs.	2;4-6	111-03219
	3.5	150.0	35.0	135	PA66	Black (BK)	100 pcs.	2;4-6	111-03210
T80R	4.7	210.0	55.0	355	PA66	Natural (NA)	100 pcs.	2-12	111-05019
	4.7	210.0	55.0	355	PA66	Black (BK)	100 pcs.	2-12	111-08010
T80I	4.7	300.0	85.0	355	PA66	Natural (NA)	100 pcs.	2-12	111-08229
	4.7	300.0	85.0	355	PA66	Black (BK)	100 pcs.	2-12	111-08210

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommended Tools

2	3	4	5	6	7	8	9	10	11	12
MK20	MK21	MK3SP	MK3PNSP2	EVO7	MK7HT	MK7P	MK6	EVO9	EVO9HT	MK9P

For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.



Cable Ties and Fixings

Fixing products for holes

2-piece fixing ties with fir tree, with disc, for round holes

Fir Tree Parts FT5

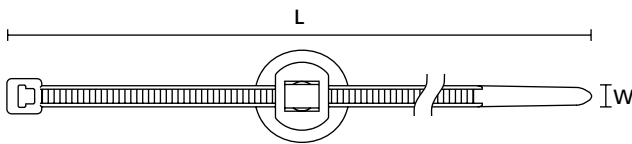
Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

Features and benefits

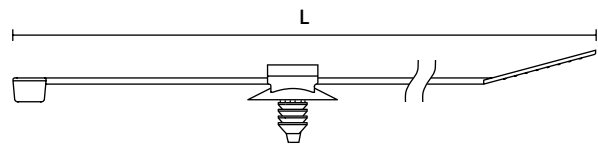
- Pre-assembled 2-piece fixing tie with fir tree foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises ingress of dust and dirt
- Fir tree foot part can be used for a variety of panel thicknesses
- Suitable for use within threaded holes



These fir tree fixings can also be used in threaded, blind holes.



T30RFT5



T30RFT5

TYPE	Drawing	Hole Ø (FH)	Panel Thickness	Width (W)	Length (L)	Bundle Ø max.	N	Disc Ø	Material	Colour	Tools	Article-No.
T30RFT5		4,5 - 5,0	0.7 - 3.0	3.5	150.0	34.0	135	16,0	PA66HS, PA66HIRHS	BK	2;4-6	150-55850

All dimensions in mm. Subject to technical changes.

Recommended Tools			
2	4	5	6
MK20	MK3SP	MK3PNSP2	EVO7

For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.



2-piece fixing ties for edges

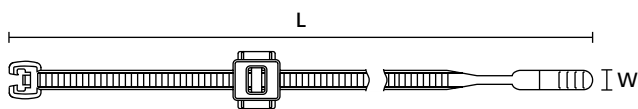
These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel building and electrical industry.

Features and benefits

- Pre-assembled 2-piece fixing tie with EdgeClip and Q-tie
- A perfect complement within our Q-Series range
- Unique and innovative cable tie with open-head design
- Time saving solution due to quick and simple installation
- Q-tie saves more than 25 % of usual working time
- Cable tie head can be moved after bundling
- For edges of 1 – 3 mm



Q50REC4A, Q-tie with EdgeClip 1-3 mm Top Fixing.



Q50REC4A



Material specification please see page 72.

1.0 - 3.0 mm, top fixing

TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
Q50REC4A		4.7	210.0	45.0	220	PA66W	Black (BK)	2-10	156-01085
Q50REC4B		4.7	210.0	45.0	220	PA66W	Black (BK)	2-10	156-01086

All dimensions in mm. Subject to technical changes.

1.0 - 3.0 mm, side fixing

TYPE	Drawing	Width (W)	Length (L)	Bundle Ø max.	N	Material	Colour	Tools	Article-No.
Q50REC5A		4.7	210.0	45.0	220	PA66W	Black (BK)	2-10	156-01087
Q50REC5B		4.7	210.0	45.0	220	PA66W	Black (BK)	2-10	156-01088

All dimensions in mm. Subject to technical changes.

Recommended Tools								
2	3	4	5	6	7	8	9	10
MK20	MK21	MK3SP	MK3PNSP2	EVO7	MK7HT	MK7P	MK6	EVO9

For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.



Manual tensioning tool plastic housing

EVO7 up to 4.8 mm strap width

HellermannTyton's EVO7 mechanical hand tool was ergonomically designed to reduce the risks of repetitive stress injuries to operators while concurrently increasing productivity. The EVO7 Tension/Lock/Cut Technology delivers performance, safety and comfort for the operators. Available in a standard grip span (EVO7) or short grip span (EVO7SP), for smaller hands. Additional accessories are available.

Features and benefits

- Ergonomic, slip-proof handle for a comfortable and secure grip
- Extremely low-maintenance
- Fast and precise application with minimum effort (TLC mechanism)
- Convenient and simple tension adjustment
- Extended, slim nose for use in narrow spaces
- Housing made of resilient and lightweight glass fibre-reinforced polyester
- Standard grip span (90 mm) and short grip span (80 mm) available



The EVO7: Maximum performance with minimum effort.

TYPE	Description	Strap Width max.	Strap Thickness max.	Weight	Article-No.
EVO7	EVO7	4.8	1.5	0.275 kg	110-70129
EVO7SP	EVO7SP	4.8	1.5	0.272 kg	110-70130

All dimensions in mm. Subject to technical changes.



The patent-pending TLC-technology delivers increased productivity:

- Application force and effort are significantly reduced
- Precise cutting of the cable tie right at the head
- Smooth fastening of the cable tie without recoil
- Protects muscles and joints and herewith the health of the user

Perfect cutting made easy with the EVO family:

From precise preliminary settings to the perfect cut, the EVO family allows an even lighter, gentler and easier cable tie application than ever before. The TLC-technology makes all the difference!



1. Tension

The cable tie is tensioned as usual. Use the tension adjustment knob to select your desired tension setting.



2. Lock

When the desired tension is met the locking mechanism locks the tie in place.



3. Cut

For the final cut, very little effort is needed. By simply pulling the trigger back a little to cut the tie. Without recoil and vibration.



For product specific approvals and specifications please refer to the Appendix.

Information and installation instructions for self-adhesive mounting bases

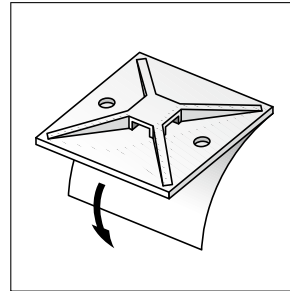
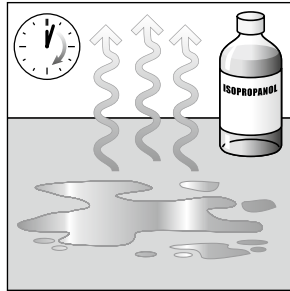
HellermannTyton uses different types of adhesives for self-adhesive bases: acrylate and synthetic rubber. These differ in the operating temperature range and the 'pull off' force of the adhesive. Synthetic rubber has an excellent initial grip, allowing for almost immediate use.

Acrylate adhesive has less initial grip, so there might be a need to wait for a few hours before use (depending on the surface), but has a higher, "pull off" force" than synthetic rubber. This enables a permanent fixing lasting months or even years.

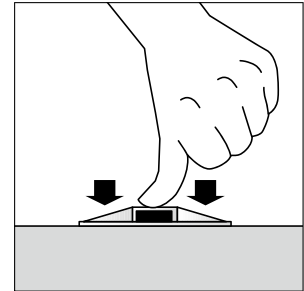
Instructions for use



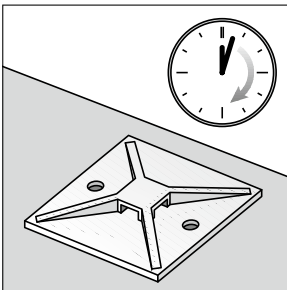
1. The surface must be dry, free from dust, oil, oxides, parting agents and other impurities. The surface to be glued should be cleaned using a clean cloth and isopropanol/water (50/50). When using other appropriate cleaning agents, ensure that they do not attack the surface nor leave any residues. After cleaning allow the surface to air-dry completely.



2. Peel off protective backing and ensure the adhesive area is not touched.



3. Press down firmly on the base with the thumbs for several seconds.



4. Depending on the type of adhesive, wait for several minutes (synthetic rubber) or hours (acrylate) so that the adhesive can bond completely with the surface.



We will be happy to send you on request an up-to-date technical datasheet for whichever adhesive you are using.



Cable tie mounts with high performance adhesive

FlexTack-Series FMB for round and angled surfaces

FlexTack cable tie mounts can be successfully applied to a variety of high- and low-energy surfaces such as glass, metals (including painted, varnished or powder-coated surfaces) as well as plastics. FlexTack provides a reliable fixing solution where it is impractical to use screws or bolts. The unique design in combination with the special acrylate adhesive makes professional cable management easy.

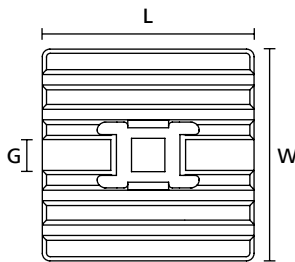
Features and benefits

- Flexible Mount for round and angled surfaces
- FMB mounts with homogeneous system of acrylic adhesive
- Allows greater design freedom and offers uniform stress distribution along with weight reduction
- Innovative fixing solution for high and low energy surfaces
- Protection foil with finger lift for easy peel off
- 4-way entry for cable tie for quicker and more flexible installation
- FlexTack Cable tie mounts are also suitable for high energy surfaces like metal or glass.

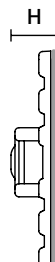


Flexible cable tie mount, FlexTack in use on a concaved surface.

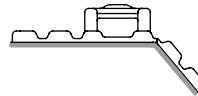
MATERIAL	Polyamide 6.6, heat stabilised (PA66HS)
Adhesive	Acrylate with base of acrylic foam
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V2 (excluding adhesive)



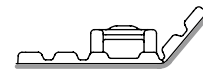
Flexible Adhesive Mount FMB4APT-A (plan view)



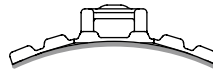
Flexible Adhesive Mount FMB4APT-A (side view)



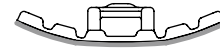
Flexible Adhesive Mount FMB4APT-A (down angled, side view)



Flexible Adhesive Mount FMB4APT-A (up angled, side view)



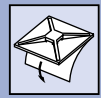
Flexible Adhesive Mount FMB4APT-A (convex, side view)



Flexible Adhesive Mount FMB4APT-A (concave, side view)

TYPE	Width (W)	Length (L)	Height (H)	Strap Width max. (G)	Material	Colour	Adhesive	Pack Cont.	Article-No.
FMB4APT-A	28.0	28.0	6.3	5.4	PA66HS	Black (BK)	mod. Acrylate	100 pcs.	151-02219
	28.0	28.0	6.3	5.4	PA66HS	White (WH)	mod. Acrylate	100 pcs.	151-02977

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Cable tie mounts with high performance adhesive

SolidTack-Series QM


Q-mounts are ideally suited for holding our innovative Q-ties in place. They would perfectly fit to all applications where a reliable and durable fixation is required. With its SolidTack adhesive Q-mounts offer an innovative fixing solution especially for low energy surfaces or if drilling a hole is not possible. Suitable for a wide range of applications on varnished or plastic or metal surfaces in many areas like electrical cabinet, railway, aerospace, automotive and agriculture machinery.

Features and benefits

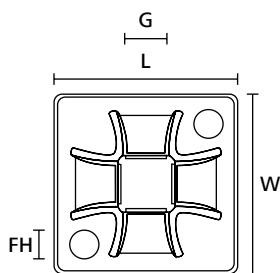
- Q-mounts with homogeneous system of acrylic adhesive
- Perfect for combination with Q-ties
- Very good initial adhesion, increases with time
- Innovative fixing solution for high and low energy surfaces
- Q-Mount base locks Q-tie in vertical position, means the hands are free to apply cables



SolidTack-Series QM - Cable Tie Mounts with high performance adhesive; screwable or self adhesive versions. Perfect for combination with T-series cable ties.

 **Material specification please see page 72.**

MATERIAL	Polyamide 6.6 (PA66)
Adhesive	Acrylate with base of acrylic foam
Operating Temperature	-40 °C to +85 °C
Flammability	UL 94 V2 (excluding adhesive)



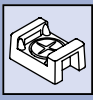
Q-Mount (plan view)



Q-Mount (side view)

TYPE	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Adhesive	Pack Cont.	Article-No.
QM20APT-A	20.0	20.0	3.7	3,1	4.0	PA66	Black (BK)	mod. Acrylate	100 pcs.	151-02972
	20.0	20.0	3.7	3,1	4.0	PA66	White (WH)	mod. Acrylate	100 pcs.	151-02971
QM30APT-A	30.0	30.0	4.5	4,1	5.1	PA66	Black (BK)	mod. Acrylate	100 pcs.	151-02974
	30.0	30.0	4.5	4,1	5.1	PA66	White (WH)	mod. Acrylate	100 pcs.	151-02973
QM40APT-A	40.0	40.0	5.5	4,1	8.4	PA66	Black (BK)	mod. Acrylate	50 pcs.	151-02976
	40.0	40.0	5.5	4,1	8.4	PA66	White (WH)	mod. Acrylate	50 pcs.	151-02975

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Cable Ties and Fixings

Fixing products for screws

Plastic nuts

KM

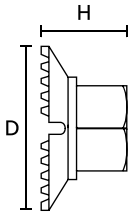
KM plastic nuts can be used in virtually all applications where metal nuts may have been used - offering benefits in speed of application, weight saving and corrosion resistance they also offer a secure fixing when subject to vibration. Typical applications can be found in a wide variety of industries from automotive to white goods (domestic appliances).

Features and benefits

- Must faster assembly than traditional metal hexagonal nuts
- Simply pushed onto bolt by hand
- Easily opened at any time using normal spanner
- Available for both 5 mm and 6 mm ISO threaded bolts



Plastic Nuts simply pushed onto bolt by hand.



Plastic Nuts KM5, 6.



**Material specification
please see page 72.**

TYPE	Ø (D)	Height (H)	Nut Size (NS)	Material	Colour	Article-No.
KM6	17.5	9.6	10.0	PA66	Black (BK)	151-02281

All dimensions in mm. Subject to technical changes.



Screw fixing mounts

Cable Tie Mounts with curved design

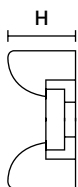
Designed specifically for holding heavier cable bundles these mounting bases can be used in many industries from agriculture to truck manufacturing. They offer a very secure fixing and can be used with a wide variety of heavy duty cable ties up to 8.3 mm width.

Features and benefits

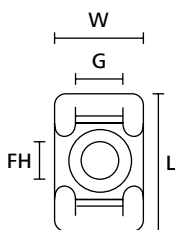
- Curved design for additional cable support
- Simple to install with a screw or bolt
- Excellent security, particularly in areas of high vibration
- Mounts are available in various sizes and materials



Cable Tie Mounts KR6G5, KR8G5 and CTM.



KR6G5, KR8G5 and CTM (side view)

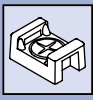


KR6G5, KR8G5 and CTM (plan view)

TYPE	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
CTM0	9.4	14.7	6.9	3,8	5.0	PA66	Black (BK)	100 pcs.	151-30300
	9.4	14.7	6.9	3,8	5.0	PA66	White (WH)	100 pcs.	151-30303
CTM1	9.4	14.7	6.9	4,8	5.0	PA66	Black (BK)	100 pcs.	151-30400
	9.4	14.7	6.9	4,8	5.0	PA66	White (WH)	100 pcs.	151-30404
KR6G5	12.0	18.0	9.0	4,5	6.0	PA66	Natural (NA)	100 pcs.	151-24619
KR8G5	14.5	25.0	12.0	6,5	8.0	PA66	Natural (NA)	100 pcs.	151-24819
CTM2	15.5	21.8	9.4	4,6	7.9	PA66	Black (BK)	100 pcs.	151-30500
	15.5	21.8	9.4	4,6	7.9	PA66	White (WH)	100 pcs.	151-30504
CTM3	15.5	21.8	9.4	5,1	7.9	PA66	Black (BK)	100 pcs.	151-30600
	15.5	21.8	9.4	5,1	7.9	PA66	White (WH)	100 pcs.	151-30605
CTM4	15.8	21.8	9.4	6,4	7.9	PA66	Black (BK)	100 pcs.	151-30700
	15.8	21.8	9.4	6,4	7.9	PA66	White (WH)	100 pcs.	151-30703

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Cable Ties and Fixings

Fixing products for screws

Screw fixing mounts

CTAM-Series for applications where space is limited

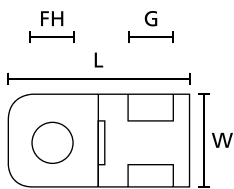
Each of these products offers particular benefits, but all are designed for simple yet robust installation in a wide variety of applications. Particularly used in telecoms equipment, switchgear and control cabinets these cable tie mounts are also used within the aerospace and railway industry.

Features and benefits

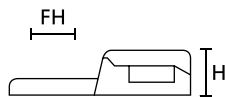
- Suitable for applications with minimal space
- Mounted before cable installation and in line with cable
- CTAM has 4-way entry design for use in line or at 90° angle to cable run
- CTAM mounts are available in different sizes and materials



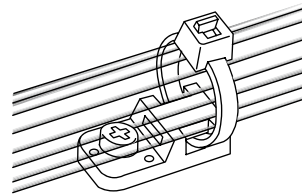
CTAM mounts for applications with limited space.



CTAM-Series (plan view)



CTAM-Series (side view)



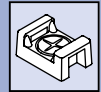
CTAM-Series in application

TYPE	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
CTAM1	10.2	20.4	5.1	4,3	5.0	PA66	White (WH)	1,000 pcs.	151-31106
CTAM2	10.2	20.4	5.1	5,2	5.0	PA66	White (WH)	100 pcs.	151-31203

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



Screw fixing mounts

These cable tie mounts are very small in their overall size. They are designed for simple yet robust installation particularly in areas with high vibrations and/or limited space. They are a common fixing method for telecoms equipment, switchgear and control cabinets.

Features and benefits

- Small overall size for areas with limited mounting space
- Simple to install with a screw, bolt or rivet
- Excellent security, particularly in areas of high vibration
- Single hole fixing with two-way entry for cable tie

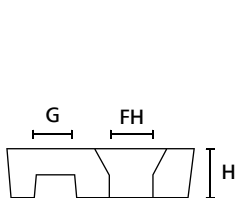


TY- (l) and MB-Series (r) with curved design, screwable.

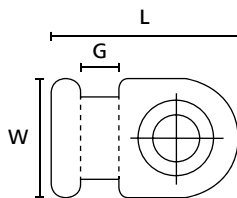


Material specification please see page 72.

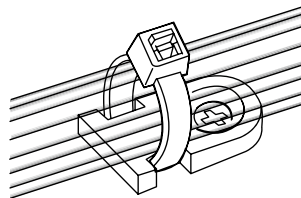
MB-Series Curved Design, screwable



MB1, MB2 Mounts (side view)



MB1, MB2 Mounts (plan view)



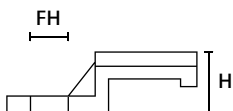
MB1, MB2 Mounts in application

TYPE	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
MB1	8.0	12.5	3.5	2,9	2.6	PA66	Natural (NA)	100 pcs.	151-28119
MB2	12.5	20.5	3.3	5,0	5.0	PA66	Black (BK)	100 pcs.	151-28210
	12.5	20.5	3.3	5,0	5.0	PA66	White (WH)	100 pcs.	151-28219

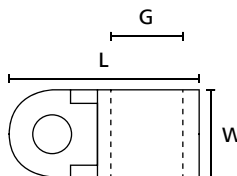
All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

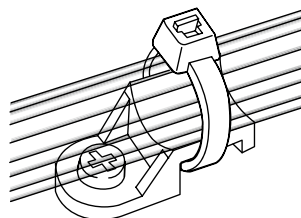
TY-Series Curved Design, screwable



TY3, TY8 Mounts (side view)



TY3, TY8 Mounts (plan view)

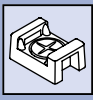


TY3, TY8 Mounts in application

TYPE	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
TY3F1	8.0	19.0	5.7	3,5	5.0	PA66	Natural (NA)	1,000 pcs.	151-23319
TY8F1	10.0	22.4	7.2	4,5	8.0	PA66	Natural (NA)	1,000 pcs.	151-23819

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



Cable Ties and Fixings

Fixing products for screws

Screw fixing mounts

Stainless Steel 316 mounts

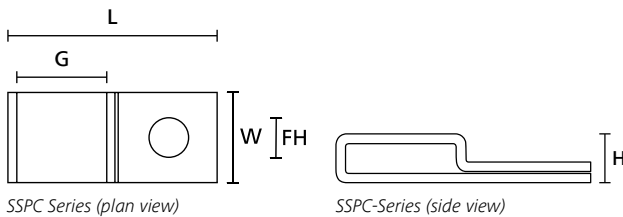
Suitable for the secure fixing of cables, tubing, conduits and pipes within the most arduous of environments. Providing a complete fastening and fixing solution when used in conjunction with stainless steel ties up to 10.0 mm width. SSPC metal cable tie mounts are ideal for use within shipbuilding, oil and gas (offshore), industrial machinery and vehicles, food and beverage, power, renewable energy or process industries.

Features and benefits

- 2-way fixing for metal cable ties
- High performance stainless steel 316 material
- Heavy duty design
- Robust and durable solution
- Resistant to a range of chemicals in challenging environments
- Quick and easy to install
- Safe and secure solution for cables, tubing, conduits and pipes



Stainless Steel P-Mount SSPC for use in arduous environments.



SSPC Series (plan view)

SSPC-Series (side view)



**Material specification
please see page 72.**

TYPE	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	Material	Colour	Pack Cont.	Article-No.
SSPC6	10.2	23.0	4.5	6,3	10.0	SS316	Metal (ML)	100 pcs.	151-00839

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



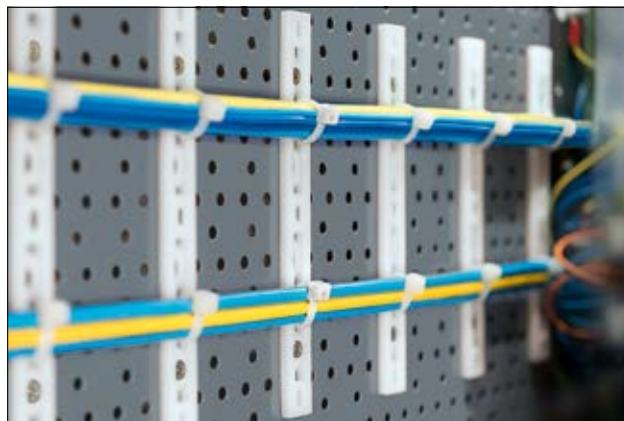
Mounting plates for screw fixing

MP-Series for parallel bundling

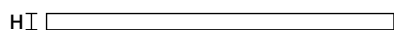
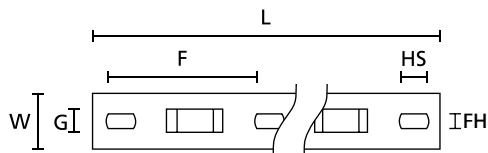
Many applications require each cable run to be firmly held in place but to be held separately from adjacent cable runs (example - control cabinets, machinery and military systems). The MP series of mounts can achieve this.

Features and benefits

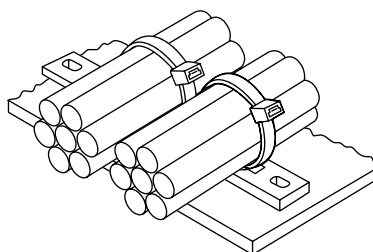
- Allow multiple cables to run in parallel
- Simple to fix with two screws
- Cables are fixed by using a cable tie through any combination of the available slots



Screwable mounting plate MSMP



Mounting plates MP and MSMP (plan and side view)



Mounting plates in application

TYPE	Width (W)	Length (L)	Height (H)	Hole Ø (FH)	Strap Width max. (G)	No. of bundles	Material	Colour	Pack Cont.	Article-No.
MP2M3	12.7	76.2	3.2	3,7	5.2	2	PA66	Natural (NA)	100 pcs.	151-24219
MP3M3	12.7	108.0	3.2	3,7	5.2	3	PA66	Natural (NA)	100 pcs.	151-24319
MP4M3	12.7	139.8	3.2	3,7	5.2	4	PA66	Natural (NA)	100 pcs.	151-24419
MP5M3	12.7	171.6	3.2	3,7	5.2	5	PA66	Natural (NA)	100 pcs.	151-24519
MSMP5/10	15.8	204.5	5.3	5,1	7.6	5	PA66	Natural (NA)	100 pcs.	151-25519
MSMP6/6	15.8	244.0	5.3	3,8	7.6	6	PA66	Natural (NA)	100 pcs.	151-25619
MSMP4	15.9	167.0	5.2	5,1	8.2	4	PA66	Natural (NA)	500 pcs.	150-83499

All dimensions in mm. Subject to technical changes.

Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

EN 45545-2

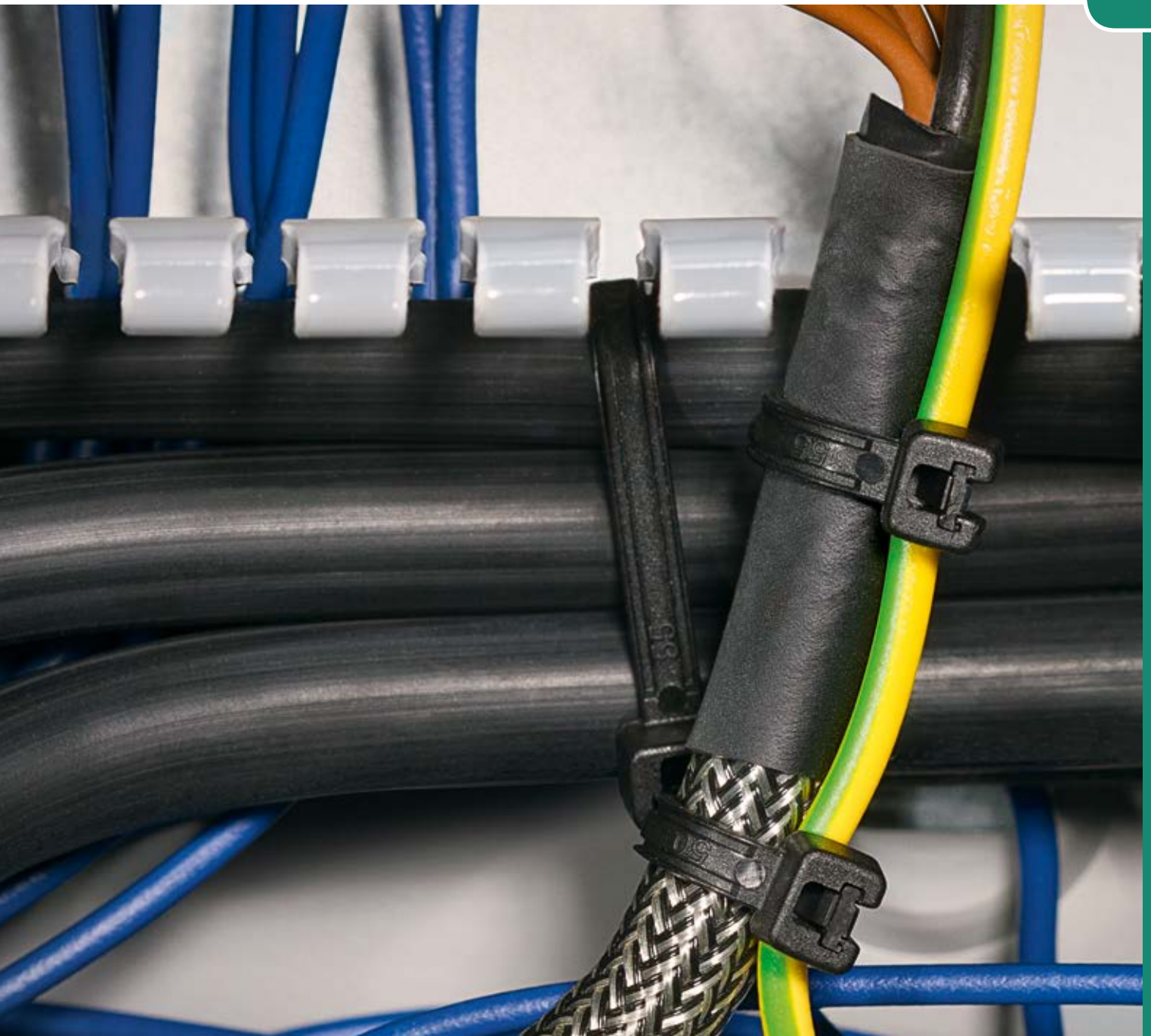


Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.

To be successful, be ahead of your time – but only a little.

There are many forward thinkers, but we prefer to think things through. We have revolutionised the cable tie on many occasions. With the first endless system in 1965. With the first fully automated bundling system in 1991. With the first open tie head in 2012. With the first recoil-free cable tie tool in 2013. With the flexible mount in 2017. To be continued ...

MADE FOR REAL 



Heat Shrinkable Tubing

Thin wall

HIS-3, 3:1, mini-reel in dispenser pack	88
TF31, 3:1, flexible and coloured	90



Application Tooling for Heat Shrinkable Tubing

Electrical hot air tool

H6100	91
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Heat shrinkable tubing 3:1 on a reel

HIS-3

HIS-3 is used in general purpose of electrical insulation with a high level of protection against mechanical abrasion.

Features and benefits

- Unlined tubing in handy dispenser packs
- High shrink ratio 3:1
- Fits highly variable cable dimensions
- Only 6 sizes for application diameter range of 1 mm up to 20 mm, reduce inventory by half



HIS-3 can fit highly variable cable dimensions.



Also available with transparent adhesive!



More colours and sizes available on request.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+100 °C
Longitudinal Change After Shrinkage	-5 % max.
Dielectric Strength	20 kV/mm
Flammability	UL 224 VW-1 (except transparent)
Insulation Class	B (VDE 0530)



Heat Shrinkable Tubing 3:1

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
HIS-3-1.5/0.5	1.5	0.5	0.45	10 m	Black (BK)	30;32	308-30150
	1.5	0.5	0.45	10 m	Blue (BU)	30;32	308-30156
	1.5	0.5	0.45	10 m	Red (RD)	30;32	308-30152
HIS-3-3/1	3.0	1.0	0.55	10 m	Black (BK)	30;32	308-30300
	3.0	1.0	0.55	10 m	Blue (BU)	30;32	308-30306
	3.0	1.0	0.55	10 m	Green-Yellow (GNYE)	30;32	308-30307
	3.0	1.0	0.55	10 m	Red (RD)	30;32	308-30302

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

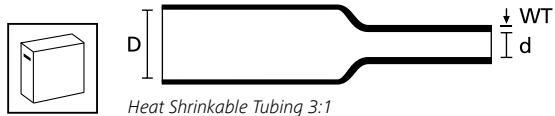


Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.



Heat shrinkable tubing 3:1 on a reel

HIS-3



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
HIS-3-6/2	6.0	2.0	0.65	5 m	Black (BK)	30;32	308-30600
	6.0	2.0	0.65	5 m	Blue (BU)	30;32	308-30606
	6.0	2.0	0.65	5 m	Green-Yellow (GNYE)	30;32	308-30607
	6.0	2.0	0.65	5 m	Red (RD)	30;32	308-30602
HIS-3-9/3	9.0	3.0	0.75	5 m	Black (BK)	30;32	308-30900
	9.0	3.0	0.75	5 m	Blue (BU)	30;32	308-30906
	9.0	3.0	0.75	5 m	Green-Yellow (GNYE)	30;32	308-30907
	9.0	3.0	0.75	5 m	Red (RD)	30;32	308-30902
HIS-3-12/4	12.0	4.0	0.80	5 m	Black (BK)	30;32	308-31200
	12.0	4.0	0.80	5 m	Blue (BU)	30;32	308-31206
	12.0	4.0	0.80	5 m	Green-Yellow (GNYE)	30;32	308-31207
	12.0	4.0	0.80	5 m	Red (RD)	30;32	308-31202
HIS-3-18/6	18.0	6.0	0.90	4 m	Black (BK)	30;32	308-31800
	18.0	6.0	0.90	4 m	Blue (BU)	30;32	308-31806
	18.0	6.0	0.90	4 m	Green-Yellow (GNYE)	30;32	308-31807
	18.0	6.0	0.90	4 m	Red (RD)	30;32	308-31802
HIS-3-24/8	24.0	8.0	1.20	3 m	Black (BK)	30;32	308-32400
	24.0	8.0	1.20	3 m	Blue (BU)	30;32	308-32406
	24.0	8.0	1.20	3 m	Green-Yellow (GNYE)	30;32	308-32407
	24.0	8.0	1.20	3 m	Red (RD)	30;32	308-32402

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
30	32
H6100	E4500

For detailed information on Application Tooling
please refer to our Main Catalogue or the Internet.



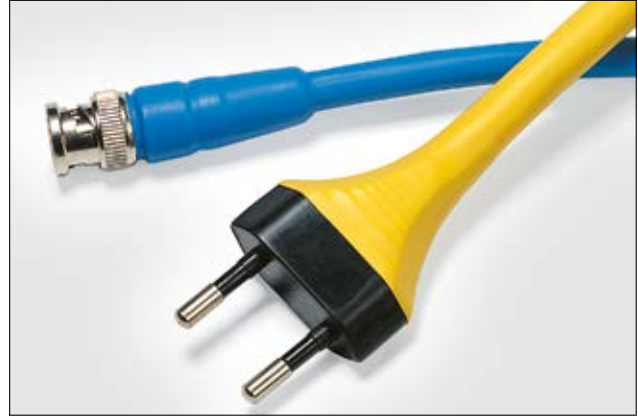
Heat shrinkable tubing 3:1 - flexible and coloured

TF31

If higher fire protection is a requirement heat shrinkable tubing TF31 is a good choice. It is used for protection, insulation and identification wires, cables and light duty harnesses.

Features and benefits

- Thin wall, very flexible polyolefin tubing
- Few sizes cover a wide range of diameters allowing reduced inventory
- Fast shrinking and low shrink temperature
- Flame-retardant, UL224 VW1 listed



TF31 with 3:1 shrink ratio allowing for a wider range of application.



Cut lengths available on request. Please contact us!



More colours and sizes available on request.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+90 °C
Longitudinal Change After Shrinkage	+5 %/-15 %
Dielectric Strength	≥30 kV/mm
Flammability	self-extinguishing, UL 224 VW-1, ASTM D876



Heat Shrinkable Tubing 3:1

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TF31-1.5/0.5	1.5	0.5	0.50	30 m	Black (BK)	30;32	333-30150
TF31-3/1	3.0	1.0	0.60	30 m	Black (BK)	30;32	333-30300
TF31-6/2	6.0	2.0	0.70	30 m	Black (BK)	30;32	333-30600
TF31-9/3	9.0	3.0	0.80	30 m	Black (BK)	30;32	333-30900
TF31-12/4	12.0	4.0	0.85	30 m	Black (BK)	30;32	333-31200
TF31-18/6	18.0	6.0	1.00	30 m	Black (BK)	30;32	333-31800
TF31-24/8	24.0	8.0	1.20	30 m	Black (BK)	30;32	333-32400

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
30	32
H6100	E4500

For detailed information on Application Tooling please refer to our Main Catalogue or the Internet.



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Electrical Hot Air Tool

HellermannTyton H6100

H6100 Electrical Hot Air Tool is designed for shrinking thin to medium wall heat shrink tubing, end caps and molded shapes.

Features and benefits

- Ergonomic and light weight hand tool
- Fatigue-free working due to low weight less than 1 kg
- Powerful 1600W motor
- Non-slip rubber ring for safe work bench application
- Infinitely variable temperature setting up to +700°C
- Ceramic heating element
- Integrated easy to clean air filter
- Heavy duty H07RN-F power cord
- Sturdy tool case incl. 3 push-on nozzles for precise heat shrink applications



H6100 Electrical Hot Air Gun.



Adjusting H6100 operation temperature.

TYPE	Air Flow l/min	Operating Temperature	Standby Temp. °C	Wattage	Operational Voltage	Weight	Article-No.
H6100	240 l/min	+40 °C to +700 °C	40 °C	1,600 W	230 V	0.99 kg	391-00110

All dimensions in mm. Subject to technical changes.

The secret of getting ahead is getting started.

Doing what nobody else can. Having ideas for new products is one thing – making them is HellermannTyton's other great strength. As a manufacturer, we have the expertise to put progress into series production. We develop and make our own manufacturing tools so that everything is perfect – and stays that way.

MADE FOR REAL 



Product Approvals and Specifications

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Notes

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Numerical Index

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Alphanumerical Index

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Standards for HellermannTyton Cable Protection

Type	Specifications	UL File Number
HelaDuct HTWD-PN Narrow Finger PVC Wiring ducts	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E357929
HelaDuct HTWD-PW Wide 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 746B, CAN/CSA-C22.2 no. 18.5, DIN EN 45545-2 (02/2016)	
Helawrap HWPP 25 m + 20 m for EU Cat.	ECE R 118-03 Abschnitt 6, 2017-06	
Braided Sleeving Helagaine HEGP	DIN EN 45545-2 (02/2016), DIN EN 45545-2 (08/2013), ECE R 118-03 Abschnitt 6, 2017-06	

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

Standards for HellermannTyton Identification Systems

Type	Specifications
3:1 TCGT	C22.2 no. 198.1-99
3:1 TULT DS	ANSI/UL 224, MIL-STD-202G Method 215K
Helagrip, reel chevron cut	BS-2782-540B, BS-6746C, IEC 757
HGDC1-3	
HGDC2-5	
HGDC4-9	
HODS50	BS-2782-540B, BS-6746C, IEC 304, IEC 757
HODS85	
IT Ties	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, CAN/CSA-C22.2 no. 62275
Ovalgrip, reel straight cut	BS-2782-540B, BS-6746C, IEC 304, IEC 757
TAGPU	MIL-STD-202G Method 215K, SAE - AS81531
Thermal Transfer Ribbons Adhesive Labels	ANSI/UL 969
TT430/TT431 Accessories	CEN
TT431 Printer	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
WIC Accessories	EN 60062, IEC 304

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



April 2020. 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
CTAM1			
PA66	WH	UL	E64139
CTAM2			
PA66	WH	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
CTM0			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	WH		
CTM1			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	WH		
CTM2			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	WH		
CTM3			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	WH		
CTM4			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
	WH		
EVO7			
MET, PL	BK	SAE - AS90387	

Material	Colour	Specifications	UL-File Number
KR6G5			
PA66	NA	NF EN 45545-2	
KR8G5			
PA66	NA	NF EN 45545-2	
MP3M3			
PA66	NA	NF EN 45545-2	
MP4M3			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64963
MSMP5/10			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
MSMP6/6			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
T18R			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B, IEC 62275:2006	E85319
	NA		
T30R			
PA66	BK	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E85319
	NA		

Standards for HellermannTyton Heatshrinkable Tubing

Type	Specifications
HIS-3	CSA C22.2 no. 198.1-06, SAE - AMS - DTL-23053/5 Class 1 and 3, SAE - AMS - DTL-23053/5 Class 2 (clear), UL ANSI/UL 224
TF31	CSA C22.2 no. 198.1-99, CSA CSA-C22.2 No.198.1-99, UL ANSI/UL 224

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

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