



More space for efficient  
electrical panel building

Cable management solutions made by HellermannTyton



The background of the entire page is a photograph of industrial control panels. On the left, a panel is open, revealing a complex internal wiring system with numerous blue, yellow, and red cables connected to various electronic components and terminal blocks. On the right, another panel is shown, also open, displaying a different internal layout with more organized wiring and components. The panels are housed in dark grey metal cabinets. The overall scene is set in an industrial environment, with a blurred background showing what appears to be a factory or warehouse floor with overhead lighting.

MADE FOR REAL<sup>®</sup>

# 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.





MADE FOR REAL<sup>®</sup>

# Innovative space-savers for professionals.



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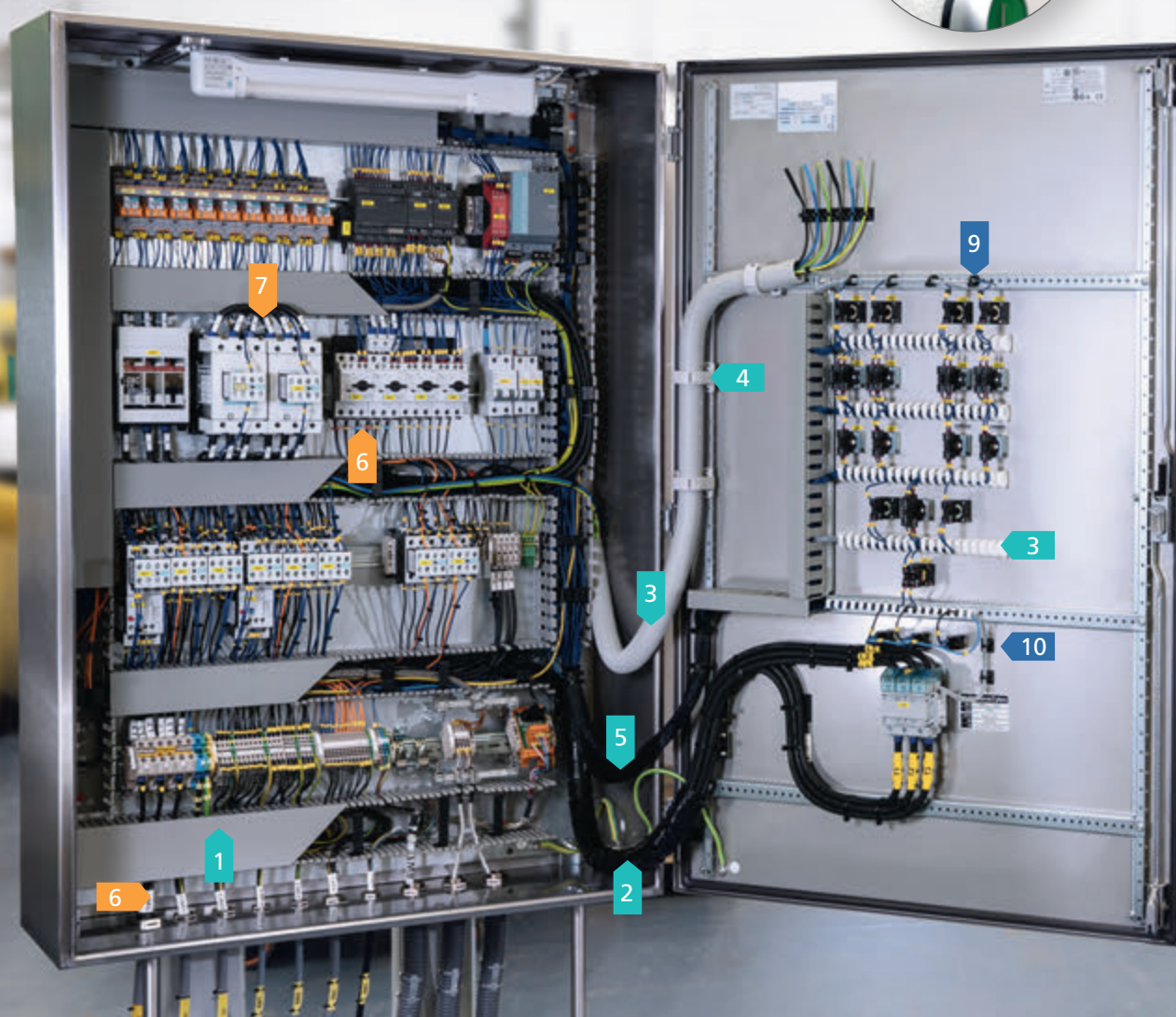
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MADE FOR REAL<sup>®</sup>

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.

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## INSULATION

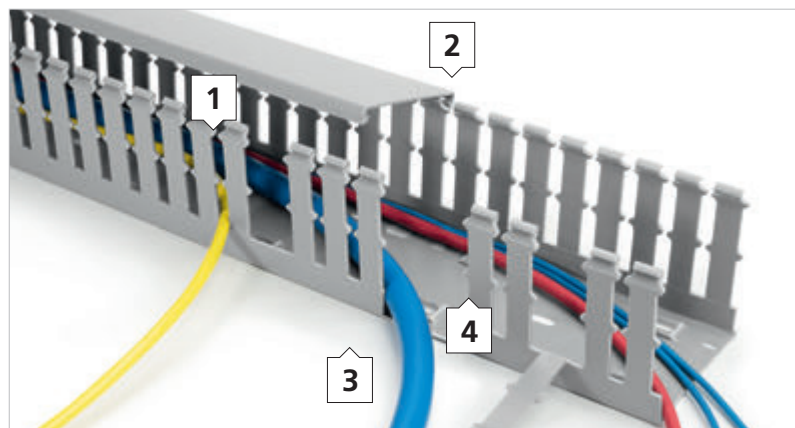
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## Wiring ducts

### 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.

**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.

**3** Burr-free removal of ribs using perforated break points.

**4** Wall segments can also be removed burr-free using perforated break points.



#### Wiring Ducts

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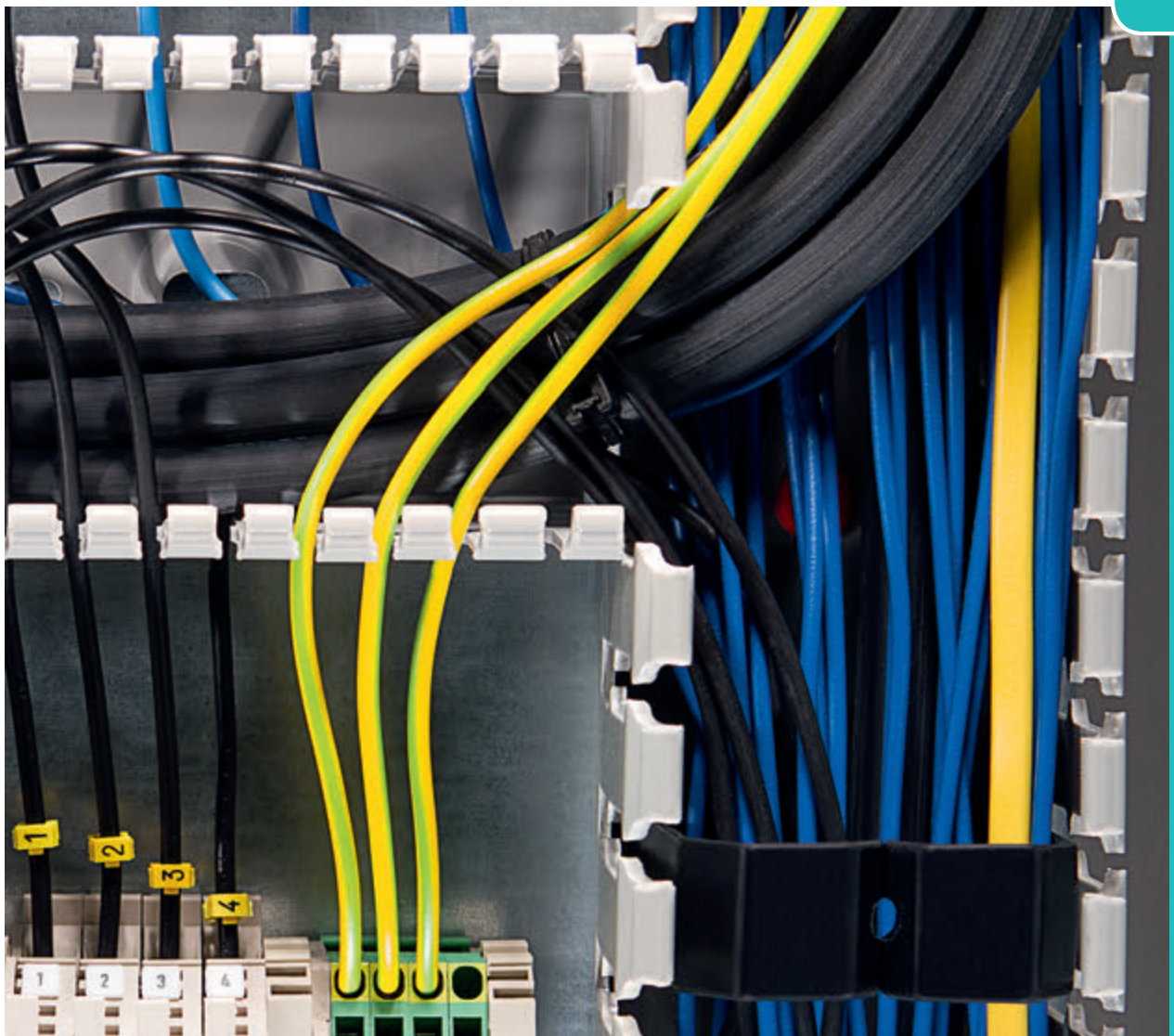
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# Cable Protection Systems

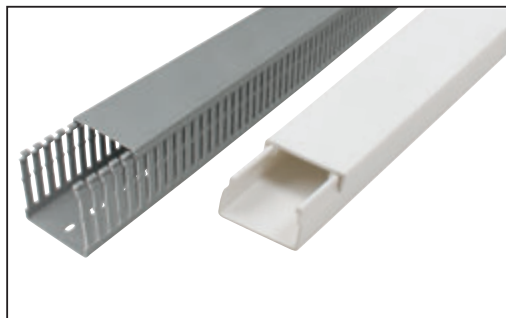
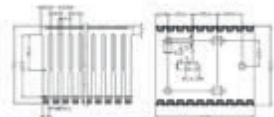
## Wiring Ducts

### Cable Securing

#### Trunking: Slotted (Grey) and Solid (White)

- Tough, rigid material with excellent resistance to chemicals and aging properties
- Material lead and cadmium free
- Self-extinguishing
- SABS IEC 61084:1919

#### Trunking: Slotted (Grey)



Finger trunking and Solid trunking

Type	Slot Width	Width (W)	Height (H)	Material	Colour	Length (m)	Bundle
1530N	10	15	30	RAL700 PVC	Grey (GY) ■	2	50
2540N	10	25	40	RAL700 PVC	Grey (GY) ■	2	56
2560N	10	25	60	RAL700 PVC	Grey (GY) ■	2	40
2580N	10	25	80	RAL700 PVC	Grey (GY) ■	2	28
3030N	10	30	30	RAL700 PVC	Grey (GY) ■	2	60
4040N	10	40	40	RAL700 PVC	Grey (GY) ■	2	38
4060N	10	40	60	RAL700 PVC	Grey (GY) ■	2	28
4080N	10	40	80	RAL700 PVC	Grey (GY) ■	2	28
6040N	10	60	40	RAL700 PVC	Grey (GY) ■	2	26
6060N	10	60	60	RAL700 PVC	Grey (GY) ■	2	18
6080N	10	60	80	RAL700 PVC	Grey (GY) ■	2	20
8040N	10	80	40	RAL700 PVC	Grey (GY) ■	2	28
8060N	10	80	60	RAL700 PVC	Grey (GY) ■	2	20
8080N	10	80	80	RAL700 PVC	Grey (GY) ■	2	16
10060N	10	100	60	RAL700 PVC	Grey (GY) ■	2	16
10080N	10	100	80	RAL700 PVC	Grey (GY) ■	2	12
12080N	10	120	80	RAL700 PVC	Grey (GY) ■	2	12

All dimensions in mm. Subject to technical changes

#### Trunking: Solid (White)

- Snap on lids included
- Available with adhesive backing

Type	Thickness (T)	Width (W)	Height (H)	Material	Colour	Length (m)	Bundle
1616S	1.0	16	16	PVC	White (WT) □	3	20
1616S29	1.0	16	16	PVC	White (WT) □	3	20
2516S	1.0	25	16	PVC	White (WT) □	3	20
2525S	1.0	25	25	PVC	White (WT) □	3	20
4016S	0.9	40	16	PVC	White (WT) □	3	10
4025S	1.0	40	25	PVC	White (WT) □	3	10
4040S	1.02	40	40	PVC	White (WT) □	3	10
7575S*	2.2	75	75	PVC	White (WT) □	3	4
7575SWT*	2.2	75	75	PVC	White (WT) □	3	4
10040S	2.0	100	40	PVC	White (WT) □	3	4
10050S*	2.5	100	50	PVC	White (WT) □	3	2
100100S*	2.5	100	100	PVC	White (WT) □	3	2

All dimensions in mm. Subject to technical changes. \* Minimum Order Quantity (MOQ) maybe required





### 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

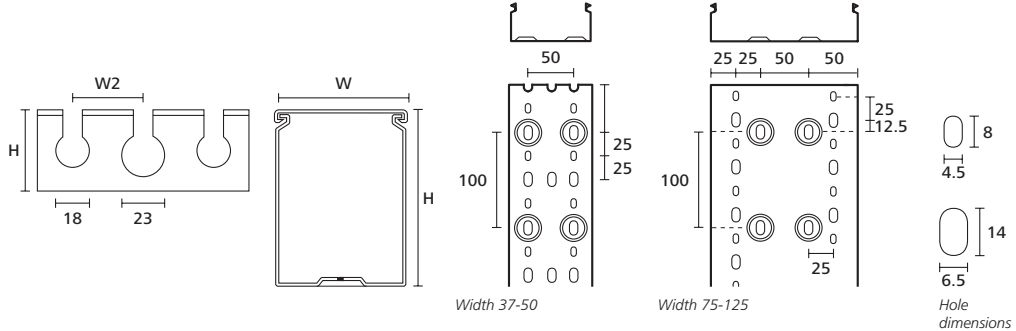
- Circular knockouts of 18 mm and 23 mm diameter
- Duct covers are easy to mount and remove, yet hold securely even in a vertical position and under vibration
- Cover is flush with side of duct
- Base perforation according to DIN EN 50085



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

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

#### 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.



# Cable Protection Systems

## Wiring Ducts

### 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

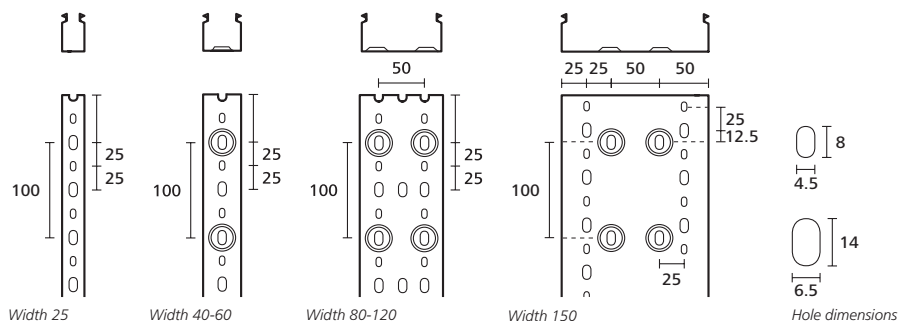


*HelaDuct HTWD-PWB blue ducts to identify intrinsically safe wiring.*

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



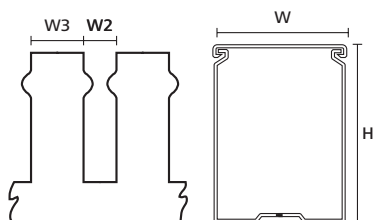
#### Nominal dimensions HTWD-PWB





### Blue PVC Wiring Ducts

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



Wiring duct HTWD-PWI 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.



# 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** 





### 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°.

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



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

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



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

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



# Cable Protection Systems

## Wiring Ducts

### 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

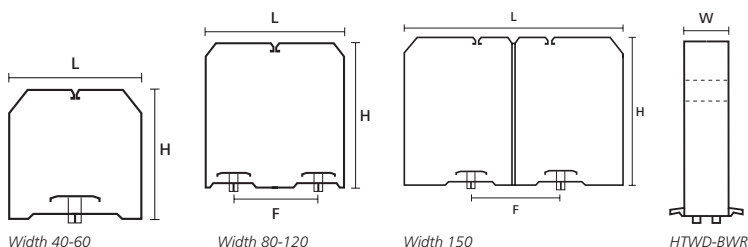
- Quickly and easily fastened on raised mounting points with a 1/4 turn of a screwdriver
- Wires easily inserted and firmly held in place
- Anchor of retainer remains inside raised mounting point and does not protrude below surface of duct base
- Reduces strain on duct fingers especially at corners and 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.

<b>MATERIAL</b>	Acrylonitrile Butadiene Styrene alloyed with Polycarbonate (PC/ABS)
<b>Operating Temperature</b>	-5 °C to +80 °C
<b>Flammability</b>	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.





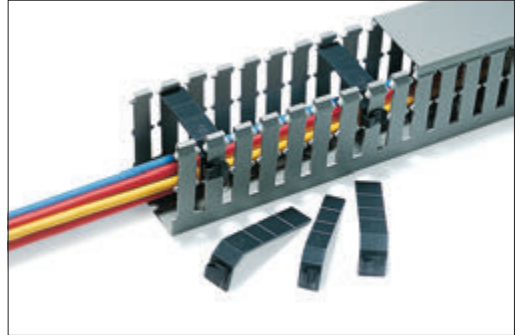
### For mounting to duct fingers

#### 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



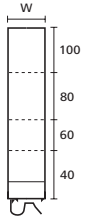
HTWD-NFWR and HTWD-WFWR hold wires in place even when cover is removed.

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

HF ✓

RoHS ✓

#### 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.



# Cable Protection Systems

## Wiring Ducts

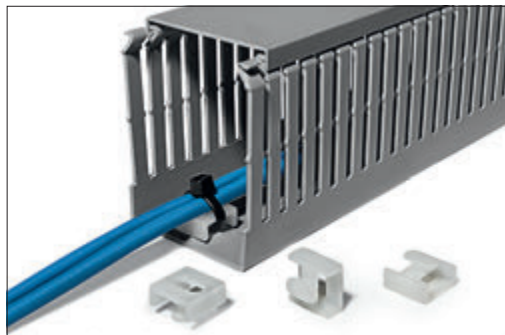
### For fixing cable ties to base of ducts

#### HelaDuct HTWD-CTH cable tie holder

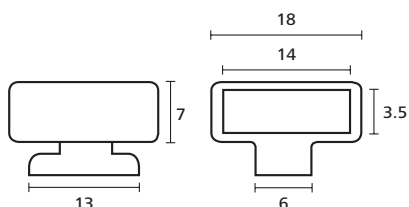
HelaDuct HTWD-CTH is used to anchor a cable tie securely to the base of a duct.

#### 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

<b>MATERIAL</b>	Polyamide 6 (PA6)
<b>Operating Temperature</b>	-40 °C to +80 °C
<b>Flammability</b>	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.

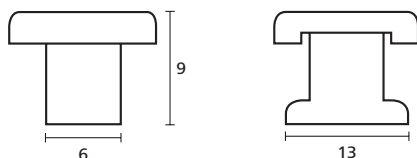
### For fastening mounting blocks to base of ducts

#### 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

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



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

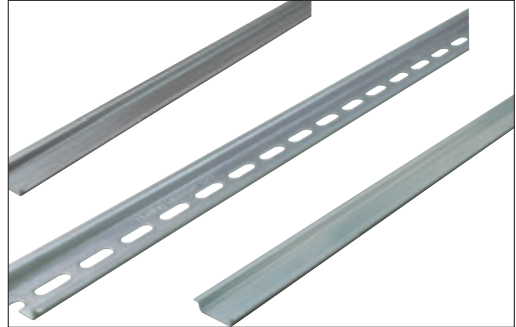
All dimensions in mm. Subject to technical changes.  
Minimum Order Quantity (MOQ) may differ from package content.



### DIN Rail

#### DIN Rail Mounting

- TS32- 46 277, sheet 1
- TS35 - EN 50 022
- TS35SS - EN 10088-2



Type	Drawing	Width (W)	Height (H)	Thickness (T)	Material	Length (m)	Article-No.
TS32		16.5	15	1.5	Steel, zinc plated	2	181-00706
TS35		35	7.5	1	Steel, zinc plated	2	181-00704
TS35S		35	15	1.5	Steel, zinc plated	2m Slotted	181-00701
TS35SSS		35	7.5	1	Stainless Steel	2m	181-00703
TS35AL		35	8	1.5	Aluminium	2m	181-00705
TS35ALS		35	8	1.5	Aluminium	2m Slotted	181-00700

All dimensions in mm. Subject to technical changes.  
T\* in 1.5mm





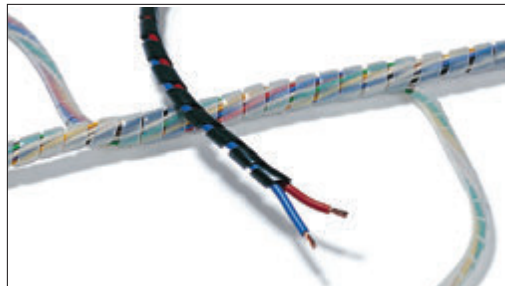
# Cable Protection Systems

## Protective Tubing and Spiral Binding

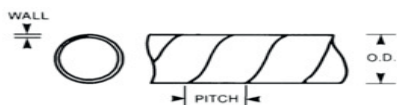
### Spiral Binding

#### NFP-Series, PE (Black and Natural)

- Operating temperature -40°C to +90°C
- Organising and protecting wires, cables and tubes
- Retro-fit
- Wires can branch out at any point, in any direction
- Thin wall available on request
- Wide range of colours and materials available on request
- Materials include flame retardant (RPF), chemical resistant and high temperature



Spiral binding



Type	IØ	Wall (WT)	Bundle Ø max.	Material (p4)	Colour	Length (m)	Article-No.
1NFPBK	1.6	0.8	8	PE	Black (BK) ■	30	161-01001
1NFP	1.6	0.8	8	PE	Natural (NT) ■	30	161-01000
2NFPBK	4.1	1	20	PE	Black (BK) ■	30	161-01003
2NFP	4.1	1	20	PE	Natural (NT) ■	30	161-01002
3NFPBK	9.6	1.2	100	PE	Black (BK) ■	30	161-01005
3NFP	9.6	1.2	100	PE	Natural (NT) ■	30	161-01004
4NFPBK	20	1.2	158	PE	Black (BK) ■	30	911-01828
4NFP	20	1.2	158	PE	Natural (NT) ■	30	911-01827

All dimensions in mm. Subject to technical changes.  
Also available in thin wall on request.

Suitable for the following industries:





### 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

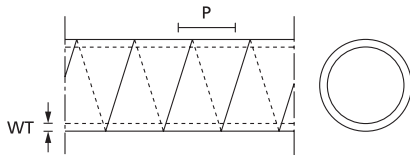
- Organises and protects cables and hoses
- Self-extinguishing according to UL94 V2
- Suitable for retro-fitting
- Cables branch out at any point
- Wide range of diameters and colours



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

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

**RoHS** ✓



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.



# Cable Protection Systems

## Corrugated Tubing

### Convuluted Tubing

#### Medium Duty (High Impact), PVC (Grey)

- Operating temperature -5°C to 60°C
- Compression force 740N
- High impact, flexible, UV stable
- Durable, crush resistant
- Meets requirements of SABS IEC 60614-1:1994 and IEC 60614-2-3:1990 – Pliable conduits for electrical installations
- Authorisations Committee approval number 0211064
- Construction industry requirements for conduits in concrete slabs, columns, beams and decks



RoHS

Type	Nominal Size		Material (p4)	Colour	Length (m)	Article-No.
	IØ	OØ				
V20HT3905	15.5	20	PVC	Grey (GY)	50	911-01831
V25HT3905	20.5	25	PVC	Grey (GY)	50	911-01841

All dimensions in mm. Subject to technical changes.

#### Light Duty (Medium Impact), PVC (White)

- Operating temperature -5°C to 60°C
- Compression force 320N
- Medium impact, flexible, UV stable
- Durable
- Meets requirements of SABS IEC 60614-1:1994 - Pliable conduits for electrical installations
- Tubing dimensions are compatible with standard range of commercially available PVC conduit fittings



RoHS

Type	Nominal Size		Material (p4)	Colour	Length (m)	Article-No.
	IØ	OØ				
V20HT2605	16.0	20	PVC	White (WT)	50	911-01832
V25HT2605	21.0	25	PVC	White (WT)	50	911-01839

All dimensions in mm. Subject to technical changes.





### 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

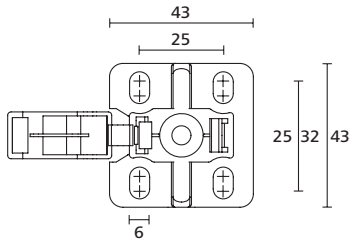


CTCC-IWS corrugated tubing holders.

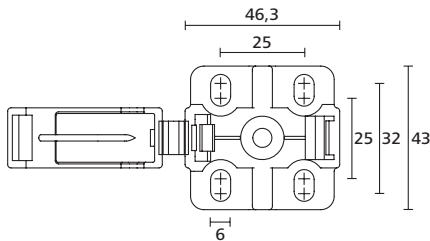
<b>MATERIAL</b>	Polyamide 6.6/6, high impact modified, heat stabilised (PA66/6HIRHS)
<b>Operating Temperature</b>	-40 °C to +105 °C
<b>Flammability</b>	UL 94 HB

HF✓

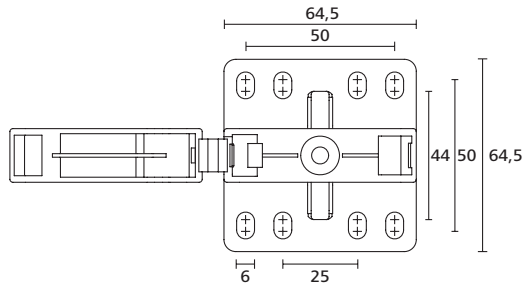
RoHS✓



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.



# Cable Protection Systems

## Spiral-Reinforced Conduit Systems

### FlexiGuard conduits & fittings

#### PVC Conduits with steel wire spiral-reinforcement

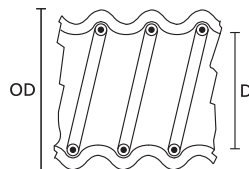
FlexiGuard protective hoses are used to protect cables in machines and plant construction, and robotics as well as leads to switch cabinets.

#### 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.



FlexiGuard

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



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.

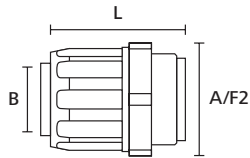
Fulfills IP54 with FlexiGuard FG conduits.

#### 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.



FlexiGuard fitting, straight with swivel thread

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



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.





# Cable Protection Systems

## Spiral-Reinforced Conduit Systems

### Fittings for FlexiGuard spiral-reinforced PVC Conduits

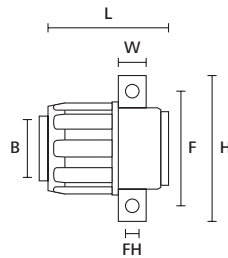
#### FG-UH straight fitting with mounting bracket, IP54

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.

<b>MATERIAL</b>	Polypropylene (PP)
<b>Operating Temperature</b>	-35 °C to +80 °C
<b>Flammability</b>	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.



### Abrasion-Resistant Braided Sleeving

#### Helagaine, HEGPA66 (Black)

- Operating temperature -60°C to +150°C, intermittent +200°C
- Melting point +255 °C
- Flammability UL 94 V2, FMVSS 302
- Excellent abrasion resistance
- Highly flexible
- Easy to apply over irregular shapes
- Recyclable
- Insensitive to condensation and fungus
- Cutting with a hot-knife no fraying of ends



Various types of Helagaine braided sleeving



Type	Bundle Ø min.	Bundle Ø max.	Material (p3)	Colour	Length (m)	Article-No.
MEGA503	2	4	PA66	Black (BK) ■	200	170-40300
MEGA504	3	6	PA66	Black (BK) ■	200	170-40400
MEGA505	3	7	PA66	Black (BK) ■	200	170-40500
MEGA506	4	8	PA66	Black (BK) ■	100	170-40600
MEGA508	5	10	PA66	Black (BK) ■	100	170-40800
MEGA510	7	12	PA66	Black (BK) ■	100	170-41000
MEGA512	8	14	PA66	Black (BK) ■	100	170-41200
MEGA514	10	16	PA66	Black (BK) ■	50	170-41400
MEGA516	12	18	PA66	Black (BK) ■	50	170-41600
MEGA520	15	23	PA66	Black (BK) ■	50	170-42000
MEGA525	18	28	PA66	Black (BK) ■	50	170-42500
MEGA530	25	32	PA66	Black (BK) ■	50	170-43000
MEGA540	30	44	PA66	Black (BK) ■	50	170-44000
MEGA550	40	55	PA66	Black (BK) ■	50	170-45000
MEGA560	50	65	PA66	Black (BK) ■	50	170-46000

All dimensions in mm. Subject to technical changes.  
Grey available on request.

Suitable for the following industries:



#### Recommended Tool: HSGO



The HSGO hot cutting tool prevents the braided sleeving from fraying

EN 45545-2

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assisted decisions**



In cooperation with



## Wire and Cable Markers

<b>Shrinkable markers „Ladder Style“, thermal transfer</b>	
TULT DS – 3:1 Military and Electronics	30
<b>Self-laminating labels, thermal transfer</b>	
Helatag 1209 (White-Transparent)	32
<b>Pre-printed cable markers</b>	
WIC, snap on	34
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Helagrip, slide on, chevron cut	38
Ovalgrip, slide on, straight cut	40
<b>Identification for marking cable bundles</b>	
IT Ties – Identification ties	42



## Control Panel Labelling

<b>Labels for control panel identification, thermal transfer</b>	
Helatag 1211 (Yellow gloss)	43
Helatag 880, removable	43
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<b>Labels for control panel identification, laser printer</b>	
Helatag 1102 (Yellow)	45
Helatag 1101 (White)	46



## Industrial Identification

<b>Panel plate labels, thermal transfer</b>	
Helatag 1220 (White)	47
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## Printers and Software

<b>Thermal transfer printer</b>	
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# Identification Systems

## Wire and Cable Markers

### 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.



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



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

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



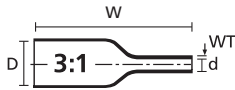
Please note! Not all products listed on this page may have this approval. Please check our website for latest approvals.





### 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.
TULT3-1DS-1x50YE	3.0	1.0	50.0	0.60	1,000 pcs.	Yellow (YE)	553-71007
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.  
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# Identification Systems

## Wire and Cable Markers

### 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

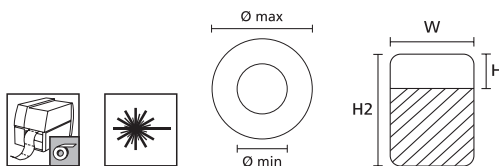
- High-quality self-laminating labels
- Suitable for marking of wires and cables
- Laminating function gives excellent protection against humidity and mechanical abrasion
- Rounded edge design gives additional bonding strength



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.**



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



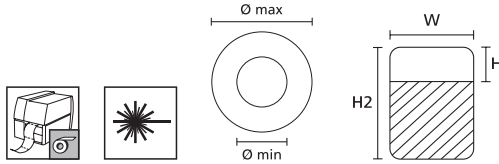
TYPE	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Height (H2)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
TAG51TD3-1209-WHCL	1.4	3.0	25.4	8.8	19.1	85.0	3 pcs.	5,000 pcs.	White (WH), Transparent (CL)	596-12091

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.
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
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.



# Identification Systems

## Wire and Cable Markers

### Pre-printed cable markers

#### WIC, snap on

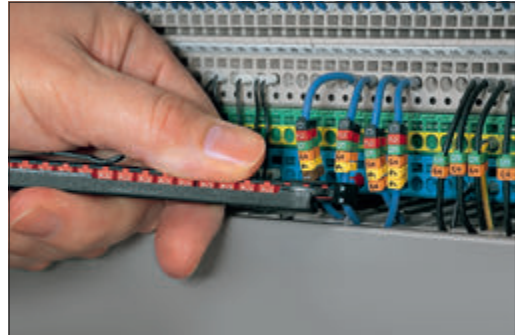
The WIC range of pre-printed cable markers easily snap onto cables and wires. The WIC tool ensures an easy application of the markers – simply insert the markers into the tool, slide down and press the markers onto the wire while twisting. Markers for fibre cables should be applied by hand.

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 mm<sup>2</sup> - 95 mm<sup>2</sup>).

#### 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 mm<sup>2</sup> up to 25 mm<sup>2</sup> (WICA-AC10-25) and up to 95 mm<sup>2</sup> (WICA-ACT-BK)

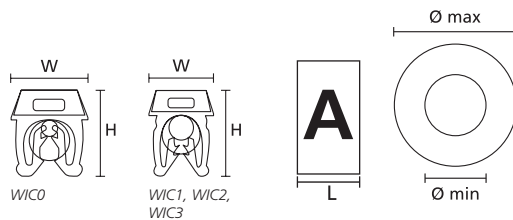


Use the applicator to simply snap the marker onto your cable.

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



#### Customized marking on request



TYPE	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Length (L)	Wire Size Range (mm <sup>2</sup> )	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.	

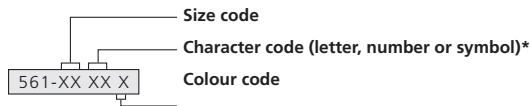
All dimensions in mm. Subject to technical changes.

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

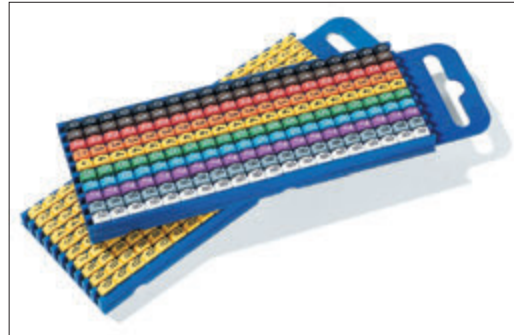
### Pre-printed cable markers

#### 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.

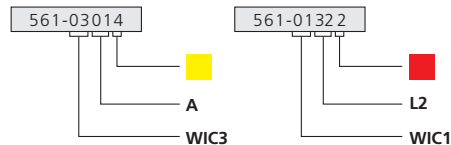


Easy to use pre-printed nylon snap-on WIC markers.

### 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										
ASSORTMENT	A	E	L	N	R	S	T	+	-	
Code										
ASSORTMENT	G	H	Y	Z	O	Q	J	K	X	L
Code										
ASSORTMENT	L1	L1	L2	L2	L3	L3	N	N	↓	↓
Code										
ASSORTMENT	L1	L1	L2	L2	L3	L3	N	N	↓	↓
Code										

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

### Step 3: Choose your colour.

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



Customized marking  
on request





# Identification Systems

## Wire and Cable Markers

### Pre-printed cable markers

#### WIC Tool and accessories

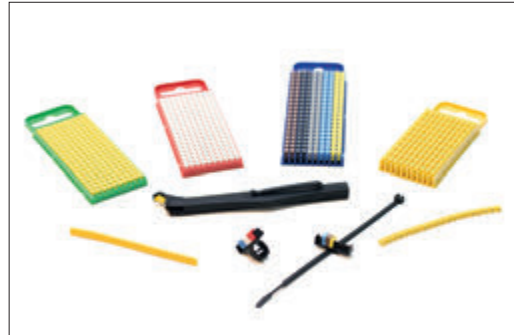
The WIC range of pre-printed cable markers easily snap onto cables and wires. The WIC tool ensures an easy application of the markers – simply insert the markers into the tool, slide down and press the markers onto the wire while twisting. Markers for fibre cables should be applied by hand.

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 mm<sup>2</sup> - 95 mm<sup>2</sup>).

#### 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 mm<sup>2</sup> to 95 mm<sup>2</sup> (WICA-AC10-25 and WICA-ACT-BK)

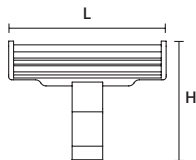


WIC cable markers and accessories.

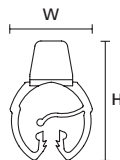
<b>MATERIAL</b>	Polyamide 6.6, high impact modified, heat stabilised (PA66HIRHS)	Polyamide 6, glass-fibre reinforced (PA6GF15%)
<b>Operating Temperature</b>	-40 °C to +85 °C, (+105 °C, 500 h)	-40 °C to +85 °C
<b>Flammability</b>	UL 94 HB	UL 94 V0

HF✓

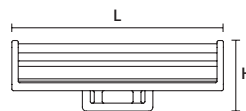
RoHS✓



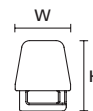
WICA-AC (front view)



WICA-AC (side view)



WICA-ACT (front view)

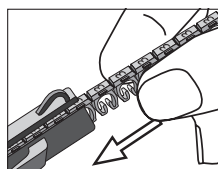


WICA-ACT (side view)

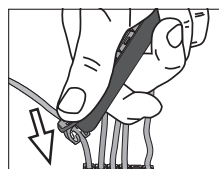
TYPE	Description	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Length (L)	Material	Marker tiles per carrier	Pack Cont.	Article-No.
<b>WICA-AC10-25</b>	Snap-on accessory	5.5	9.5	13.5	19.4	25.8	PA66HIRHS	8	100 pcs.	561-06001
<b>WICA-ACT-BK</b>	WIC adapter set for fixing with cable ties	3.0	38.0	7.0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

All dimensions in mm. Subject to technical changes.

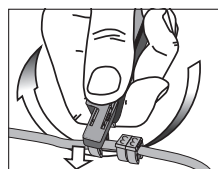
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



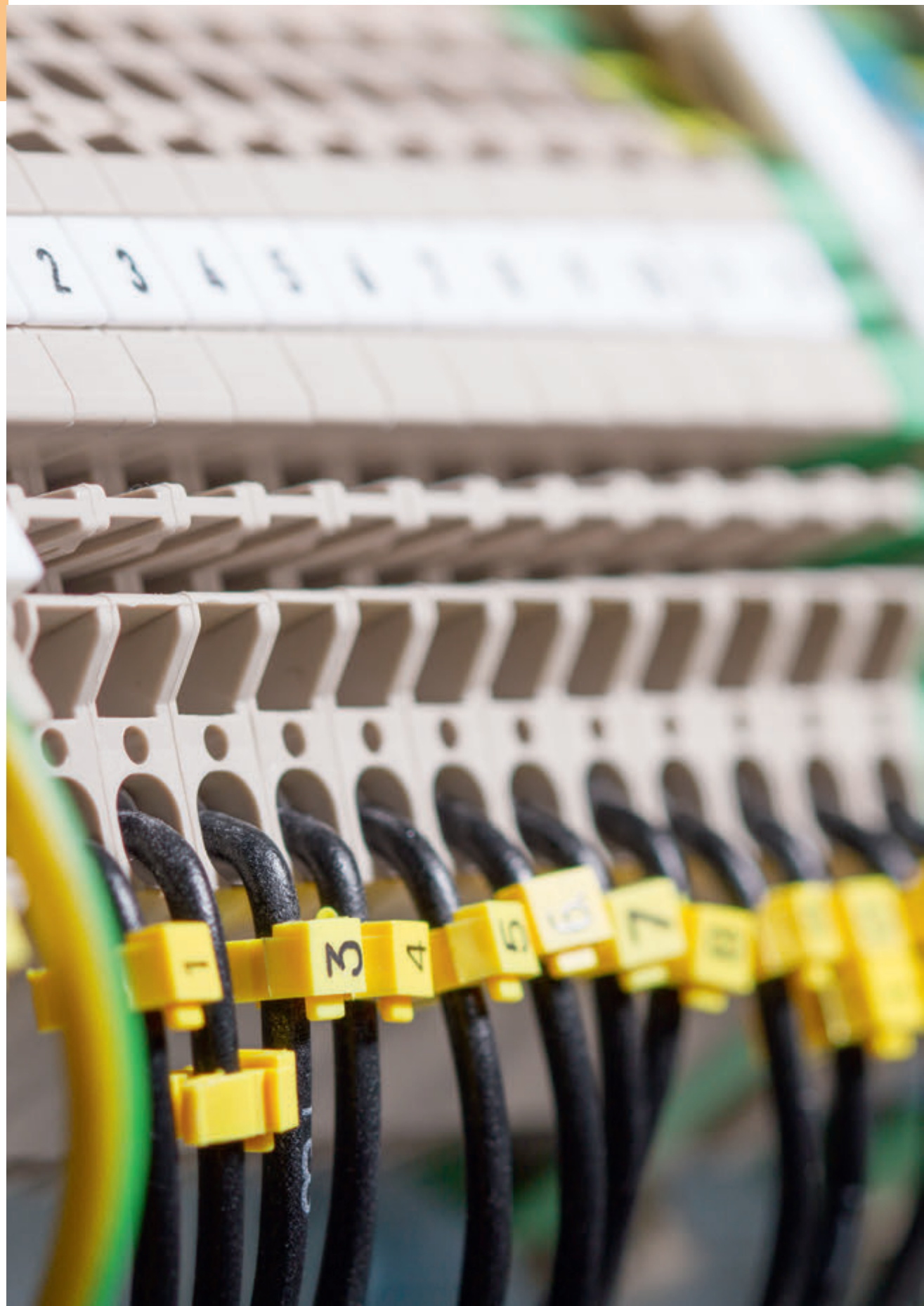
Step 1



Step 2



Step 3





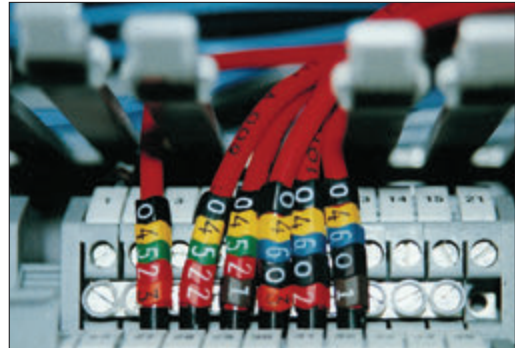
# Identification Systems

## Wire and Cable Markers

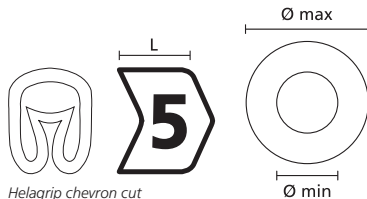
### Pre-Printed Cable Markers

#### HELAGRIP, Slide-on, Chevron-cut

- Operating temperature -65°C to +105°C, intermittent temperature +135°C
- Flammability UL 94 V0 (3mm)
- 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
- Flexible cadmium free material fits securely on wire
- Characters are 0-9, A-Z and standard electrical symbols
- HG25 markers (international colour coding) available on request, MOQ required



Clearly a better way to identify in confined spaces.



Helagrip chevron cut



Locally manufactured



Products have been tested in-house according to UL 224

Type	Cable Ø min.	Cable Ø max.	Length (L)	Material	Colour	Qty
HG13	1	3	3.5	Flexible PVC	Black on Yellow	500
HG25	2	5	3.5	Flexible PVC	Black on Yellow	500

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.

### Recommended Tools

Type	Image	Size	Article-No.
TJC1-3		Helagrip 1-3	518-00113
TJC2-5		Helagrip 2-5	518-00125

Suitable for the following industries:





### Helagrip, Slide-on, Chevron-cut



#### HG13

Letter	Type
A	HG13MAYL
B	HG13M8YL
C	HG13MCYL
D	HG13MDYL
E	HG13MEYL
F	HG13MFYL
G	HG13MGYL
H	HG13MHYL
I	HG13MIYL
J	HG13MJYL
K	HG13MKYL
L	HG13MLYL
M	HG13MMYL
N	HG13MNYL
P	HG13MPYL
Q	HG13MQYL
R	HG13MRYL
S	HG13MSYL
T	HG13MTYL
U	HG13MUYL
V	HG13MVYL
W	HG13MWYL
X	HG13MXYL
Y	HG13MYYL
Z	HG13MZYL

Numbers & Symbols	Type
0	HG13M0YL
1	HG13M1YL
2	HG13M2YL
3	HG13M3YL
4	HG13M4YL
5	HG13M5YL
6	HG13M6YL
7	HG13M7YL
8	HG13M8YL
9	HG13M9YL

#### HG25

Letter	Type
A	HG25MAYL
B	HG25M8YL
C	HG25MCYL
D	HG25MDYL
E	HG25MEYL
F	HG25MFYL
G	HG25MGYL
H	HG25MHYL
I	HG25MIYL
J	HG25MJYL
K	HG25MKYL
L	HG25MLYL
M	HG25MMYL
N	HG25MNYL
P	HG25MPYL
Q	HG25MQYL
R	HG25MRYL
S	HG25MSYL
T	HG25MTYL
U	HG25MUYL
V	HG25MVYL
W	HG25MWYL
X	HG25MXYL
Y	HG25MYYL
Z	HG25MZYL

Numbers & Symbols	Type
•	HG25MF5YL
+	HG25MPLYL
!	HG25MSLYL
»	HG25M-YL
0	HG25M0YL
1	HG25M1YL
2	HG25M2YL
3	HG25M3YL
4	HG25M4YL
5	HG25M5YL
6	HG25M6YL
7	HG25M7YL
8	HG25M8YL
9	HG25M9YL
»	HG25MYLB

#### HG13 Kits

Type	Description
HG13MYL09	Yellow Marker Kit 0-9
HG13MYLAZ	Yellow Marker Kit A-Z

#### HG25 Kits

Type	Description
HG25MYL09	Yellow Marker Kit 0-9
HG25MYLAZ	Yellow Marker Kit A-Z



# Identification Systems

## Wire and Cable Markers

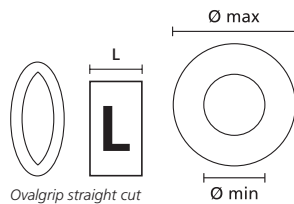
### Pre-Printed Cable Markers

#### OVALGRIP, Slide-on, Straight-cut

- Operating temperature -65°C to +105°C, intermittent temperature +135°C
- Flammability UL94 V0 (3mm)
- Pre-printed markers easily slide onto cables and wires
- Characters 0-9, A-Z and standard electrical symbols
- Oval shaped markers designed to fit AT2 or AT3
- Ideal for maintenance and repair and fixed with cable ties
- Direct application to wire and cable before termination is recommended
- Fits onto new CAT6 cable
- Colour, white with black text available on request, MOQ required



A simple idea for complex marking needs



Ovalgrip straight cut



Locally manufactured

Type	Cable Ø min.	Cable Ø max.	Material	Colour	Qty	Arrow tag	Length (L)	Characters
HO85	2.5	5.9	PVC	Black on yellow	100	AT2	63	11

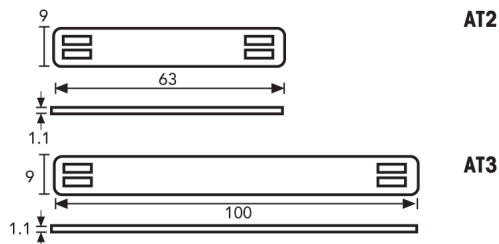
All dimensions in mm. Subject to technical changes.  
Minimum Order Quantity (MOQ) may differ from package content.

### Arrowtags

AT2 Arrowtags will fit 9 size 85 markers

AT3 Arrowtags will fit 17 size 85 markers

Uses cable ties from 2.5 - 5mm (T18 - T50 Series)



Suitable for the following industries:







### Ovalgrip, Slide-on, Straight-cut

Type	Type
<b>A</b> HO854MAYL	<b>0</b> HO854MOYL
<b>B</b> HO854MBYL	<b>1</b> HO854M1YL
<b>C</b> HO854MCYL	<b>2</b> HO854M2YL
<b>D</b> HO854MDYL	<b>3</b> HO854M3YL
<b>E</b> HO854MEYL	<b>4</b> HO854M4YL
<b>F</b> HO854MFYL	<b>5</b> HO854M5YL
<b>G</b> HO854MGYL	<b>6</b> HO854M6YL
<b>H</b> HO854MHYL	<b>7</b> HO854M7YL
<b>I</b> HO854MIYL	<b>8</b> HO854M8YL
<b>J</b> HO854MJYL	<b>9</b> HO854M9YL
<b>K</b> HO854MKYL	
<b>L</b> HO854MLYL	
<b>M</b> HO854MMYL	
<b>N</b> HO854MNYL	
<b>O</b> HO854MOYL	
<b>P</b> HO854MPYL	
<b>Q</b> HO854MQYL	
<b>R</b> HO854MRYL	
<b>S</b> HO854MSYL	
<b>T</b> HO854MTYL	
<b>U</b> HO854MUYL	
<b>V</b> HO854MVYL	
<b>W</b> HO854MWYL	
<b>X</b> HO854MXYL	
<b>Y</b> HO854MYYL	
<b>Z</b> HO854MZYL	



# Identification Systems

## Wire and Cable Markers

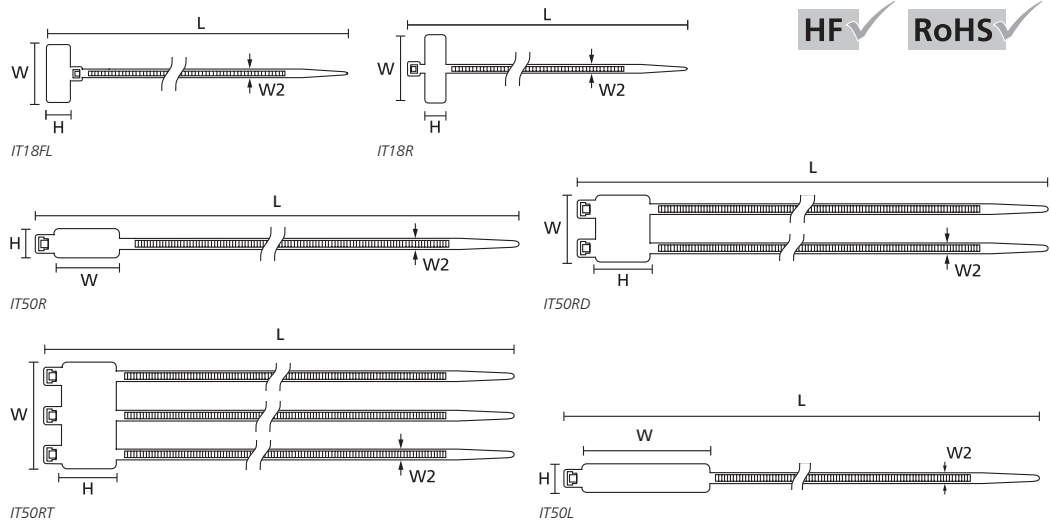
### Identification ties and plates for marking cable bundles

#### IT-Ties (Natural)

- Operating temperature -40°C to +85°C
- Flammability UL 94 V2
- 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 marking pen
- Ability to both secure and identify cable bundles at different times



One operation with two user benefits



HF✓

RoHS✓

Type	Bundle Ø min.	Bundle Ø max.	Width (W)	Height (H)	Length (L)	Width (W2)	N	Material (p3)	Qty	Colour	Article-No.
IT18FL	1.5	19	20.5	9	110	2.5	80		100	Natural (NT)	111-81919
IT18R	6	22	25	8	100	2.3	80	PA66	100	Natural (NT)	111-81821
IT50R	9.5	44.5	28	12.9	203	4.6	225	PA66	100	Natural (NT)	111-85019
IT50RD	10	44	29	26.3	205	4.7	225	PA66	50	Natural (NT)	111-85219
IT50RT	10	44	46	26.3	205	4.7	225	PA66	50	Natural (NT)	111-85119
IT50L	19	100	56	12.8	390	4.7	225	PA66	100	Natural (NT)	111-85319

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 available on request.

#### Recommended Labels

Type	IT18FL	IT18R	IT50R	IT50RD	IT50RT	IT50L
Page	196	196	196	196	196	196
Recommended Label	TAG18-07TD1	TAG23-06TD1	TAG23-10TD1	TAG26-21TD1	TAG43-21TD1	TAG52-10TD1

Suitable for the following industries:





### Labels for control panel identification, thermal transfer

**Helatag 880, removable**

**Helatag 1211 (Yellow gloss)**

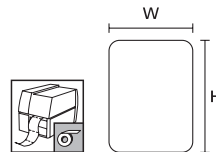
These labels are suitable for the permanent identification of components and preassembled units within electrical industry as well as asset identification. Print with HellermannTyton's premium range of thermal transfer printers and ribbons for optimum print results. They can also be used in the design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



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

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



# Identification Systems

## Control Panel Labelling

### Labels for control panel identification, thermal transfer

#### Helatag 1216 (White) for rough surfaces

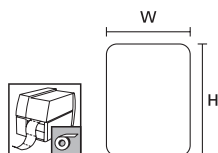
These labels are suitable for the permanent identification of components and preassembled units within electrical industry as well as asset identification. Print with HellermannTyton's premium range of thermal transfer printers and ribbons for optimum print results. They can also be used in the design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



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

HF✓

RoHS✓

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

#### 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.

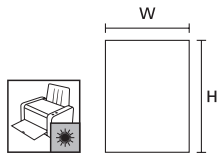
#### Features and benefits

- 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](http://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.

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



HF✓

RoHS✓

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.

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





# Identification Systems

## Control Panel Labelling

### Labels for control panel identification, laser

#### Helatag 1101 (White)

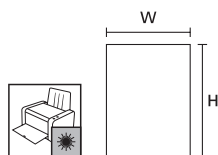
These white labels come in various sizes and are ideal for marking flat surfaces inside control panels to ensure easy wire and cable management. The labels can be easily printed with office laser printers. All label templates are already stored in HellermannTyton's Tagprint Pro 3.0 software so label 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](http://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.



<b>MATERIAL</b>	Type 1101, Polyester, white (1101)
<b>Operating Temperature</b>	-40 °C to +150 °C
<b>Curing Temperature</b>	from 0 °C
<b>Adhesive</b>	Acrylic
<b>Thickness of Foil</b>	55 µm
<b>Chem. Material Properties</b>	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.



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



### 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.

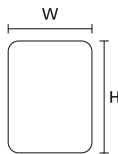
#### Features and benefits

- 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 TT1220OUT



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

<b>MATERIAL</b>	Type 1220, Polyester, white (1220)
<b>Operating Temperature</b>	-40 °C to +90 °C
<b>Curing Temperature</b>	+10 °C
<b>Adhesive</b>	Acrylic
<b>Thickness of Foil</b>	50 µm
<b>Chem. Material Properties</b>	Excellent resistance to ageing, weathering and UV-radiation. Extensive resistance to the influence of chemicals and solvents.
<b>Recommended Ribbon Type</b>	TT1220OUT, TT822OUT
<b>Thermal Transfer Printer</b>	TT431, TT4030



**RoHS** ✓

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.



# Identification Systems

## Industrial Identification

### 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.

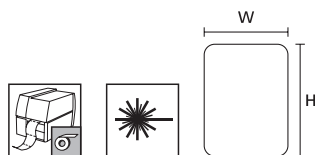
#### Features and benefits

- 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.

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



HF✓

RoHS✓

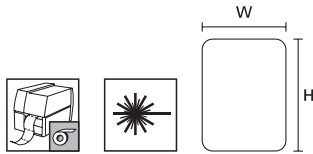
TYPE	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.	Colour	Article-No.
<b>TAG71TD6-1204-SR</b>	12.7	11.1	101.6	6 pcs.	15,000 pcs.	Silver-matt (MTSR)	596-12071
<b>TAG13TD4-1204-SR</b>	19.1	6.4	101.6	4 pcs.	10,000 pcs.	Silver-matt (MTSR)	596-12043
<b>TAG34TD3-1204-SR</b>	25.4	9.5	85.1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

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.
TAG17TD2-1204-SR	38.1	6.4	85.1	2 pcs.	5,000 pcs.	Silver-matt (MTSR)	596-12047
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.



# Identification Systems

## Printers and Software

### Thermal Transfer Printer

#### TT431, Small to Medium Print Volumes

- Standard applications e.g. barcodes (2D), warning symbols, graphics and alphanumeric characters
- Thermal Transfer material:
  - TIPTAG cable markets
  - Shrinkable markers
  - Labels
- Colour touch display with clear menu tree structure
- Windows compatible

#### Technical Overview

Article-No.(order Code)	556-00400
Print Method	Thermal transfer
Print Resolution (dpi)	300
Max Print Speed (mm/s)	150
Max Print Width (mm)	105.7
Interface	3x USB ports – all support 500mA
Storage	RAM up to 256MB Flash 50MB
Software	TagPrint Pro 3.0
Dimensions (mm)	243(W) x 189(H) x 322(L)
Weight (kg)	4



Colour touch screen with menu based on smartphone functionality



### Labelling Software

#### TagPrint Pro 4.0

- Easy to use label/marker design and printing software
- Print automation allows labels to be printed at multiple printers simultaneously
- Visual preview allows users to view label designs
- Connect or import directly from other databases including Excel, Access, text files
- Text, graphics and barcode functionalities
- Advance security feature



The easy to use software speeds up production of markers, labels and identification tags

#### Technical Overview

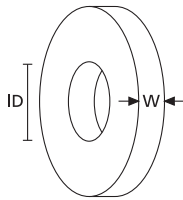
Article-No.	556-00059
System Requirements	Windows compatible NET Framework 4 1.0 GB RAM/ 500 MB HDD



## Thermal Printer Ribbons

### Heatshrink and TIPTAGS

- High quality print
- Ribbons specifically designed to maximize print performance for recommended material
- Standard inside core diameter is 25.4mm



Ribbons for printing on tubes and Tiptags

RoHS



Thermal transfer print technology heats up certain dots in print head. Transfers ink very precisely from ribbon onto print material surface.

### Ordering Information

Type	Recommended Material	Colour	Width (W)	Length (m)	Article-No.
TT822OUT8 110MM	TCGT/TULT	Silver (SR)	110	300	556-00161
TTRW 30MM	TCGT/TULT(DS)	White (WT)	30	300	556-00125
TTRW 60MM	TCGT/TULT(DS)	White (WT)	60	300	556-00137
TTDTHOUT 40MM	TCGT/TULT(DS)/TLFX(DS)/TDRT(DS)/TLFD DS/TIPTAG	Black (BK)	40	300	556-00139
TTDTHOUT 60MM	TCGT/TULT(DS)/TLFX(DS)/TDRT(DS)/TLFD DS/TIPTAG	Black (BK)	60	300	556-00140
TTDTHOUT 100MM	TCGT/TULT(DS)/TLFX(DS)/TDRT(DS)/TLFD DS/TIPTAG	Black (BK)	100	300	556-00141
TTRHTBK 70MM	THTT/THTT DS/TAGHT	Black (BK)	70	300	556-00204
TTRHTBK 100mm	THTT/THTT DS/TAGHT	Black (BK)	100	300	556-00210
TTRHTWH 70mm	THTT/THTT DS/TAGHT	White (WT)	70	300	556-00209
TTRHTWH 100mm	THTT/THTT DS/TAGHT	White (WT)	100	300	556-00211
TTRC+ 30MM	TIPTAG PU/TCGT/TULT	Black (BK)	30	300	556-00114
TTRC+ 60MM	TIPTAG PU/TCGT/TULT	Black (BK)	60	300	556-00115
TTRC+ 100MM	TIPTAG PU/TCGT/TULT	Black (BK)	100	300	556-00103

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



**HellermannTyton**

# 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

<b>T-Series</b>		
standard, natural and black	PA66	54



## Fixing products for holes

<b>For round holes</b>		
with fir tree and disc	FT5	56



## Fixing products for edges

<b>For edges</b>		
1.0 - 3.0 mm	top fixing	57
	side fixing	57



## Application Tooling for Cable Ties

<b>Manual tensioning tool plastic housing</b>		
EVO7, EVO7SP		58



## Fixing products for self-adhesive fixing

<b>Technical Information</b>	
Installation of self-adhesive mounts	59
<b>Cable tie mounts with high performance adhesive</b>	
FlexTack-Series FMB for round and angled surfaces	60
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# Cable Ties and Fixings

## Technical Information

MATERIAL	Material Shortcut	Operating Temperature	Colour**	Flammability	Material Properties*	Material Specifications
<b>Polyamide 6.6</b>	PA66	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK), Natural (NA)	UL 94 V2	• High yield strength	HF RoHS
<b>Polyamide 6.6, heat stabilised</b>	PA66HS	-40 °C to +105 °C	Black (BK), Natural (NA)	UL 94 V2	• High yield strength • Modified elevated maximum temperature	HF RoHS
<b>Polyamide 6.6, high impact modified, heat stabilised</b>	PA66HIRHS	-40 °C to +105 °C	Black (BK)	UL 94 HB	• Limited brittleness sensitivity • Higher flexibility at low temperature • Modified elevated maximum temperature	RoHS
<b>Polyamide 6.6, UV-resistant</b>	PA66W	-40 °C to +85 °C, (+105 °C, 500 h)	Black (BK)	UL 94 V2	• High yield strength • UV resistant	HF RoHS
<b>Stainless Steel, Stainless Steel</b>	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 a exhaustive material specification and are no substitute for suitability tests. Please see our datasheets for further details.

HF = Halogenfree

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances

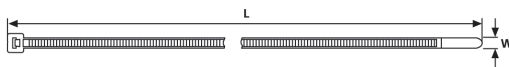
 = Minimum Loop Tensile Strength for Cable Ties (newton)



## General Purpose Cable Ties

### T-Series, PA66 (Black and Natural)

- Operating temperature -40°C to +85°C
- Flammability UL94 V2
- Inside serration for a strong hold onto bundles
- High tensile strength with low insertion force
- Easily installed either by hand or with a tensioning tool
- Made from 100% high quality plastic, allows for good recycling



T18S - LK5

T-Series cable ties for almost any type of indoor or outdoor (black only) application






Locally manufactured

Type	Width (W)	Length (L)	Bundle Ø max.	N	Material (p3)	Colour	Qty	Article-No.
T18RNT	2.5	100	22	80	PA66	Natural (NT) ■	100	111-02074
T18RBK	2.5	100	22	80	PA66	Black (BK) ■	100	111-02064
T30RNT	3.5	150	35	135	PA66	Natural (NT) ■	100	111-02092
T30RBK	3.5	150	35	135	PA66	Black (BK) ■	100	111-02066
T50RNT	4.6	200	50	225	PA66	Natural (NT) ■	100	111-02109
T50RBK	4.6	200	50	225	PA66	Black (BK) ■	100	111-02067
T50INT	4.6	300	85	225	PA66	Natural (NT) ■	100	111-02157
T50IBK	4.6	300	85	225	PA66	Black (BK) ■	100	111-02128
T50LNT	4.6	390	110	225	PA66	Natural (NT) ■	100	111-02171
T50LBK	4.6	390	110	225	PA66	Black (BK) ■	100	111-02132
T120SNT	7.6	278	55	535	PA66	Natural (NT) ■	50	111-02146
T120SBK	7.6	278	55	535	PA66	Black (BK) ■	50	111-02126
T120RNT	7.6	390	105	535	PA66	Natural (NT) ■	50	111-02137
T120RBK	7.6	390	105	535	PA66	Black (BK) ■	50	111-02120
LK5NT	13.2	535	150	1115	PA66	Natural (NT) ■	50	111-60519
LK5BK	13.2	535	150	1115	PA66	Black (BK) ■	50	111-02117

All dimensions are in mm. Subject to technical changes

## Recommended Tools

Type				
	TG008	MK10TEN	EVO7i	EV0CUT
Page	57	57	57	57



# Cable Ties and Fixings

Fixing products for holes

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

### Fir Tree Parts FT5

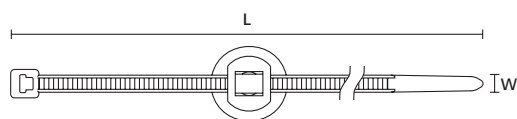
Primarily designed for fixing cable harnesses in the automotive industry their simplicity, and ease of use, has seen these parts used in everything from aircraft, to switch-gear, to washing machines.

#### Features and benefits

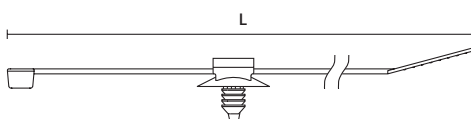
- Pre-assembled 2-piece fixing tie with fir tree foot part
- Cable tie head can be moved after bundling
- Easy to assemble without the need for a tool
- Disc adjusts tie for pressure from various directions and minimises ingress of dust and dirt
- Fir tree foot part can be used for a variety of panel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

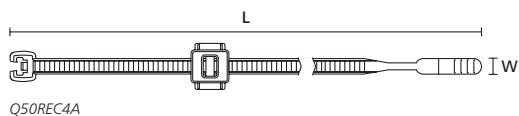
These cable ties and EdgeClip assemblies are ideal for use where holes are not acceptable or where due to temperature problems adhesives will fail. These assemblies are widely used for fixing and bundling cables, pipes and hoses within the automotive industry, harness making, panel building and electrical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





# Application Tooling

## Application Tooling for Cable Ties

### 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

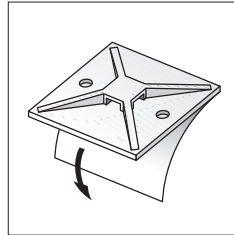
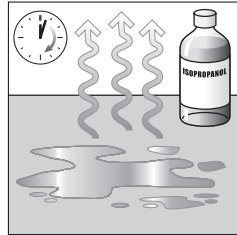
HellermannTyton uses different types of adhesives for self-adhesive bases: acrylate and synthetic rubber. These differ in the operating temperature range and the 'pull off' force of the adhesive. Synthetic rubber has an excellent initial grip, allowing for almost immediate use.

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.

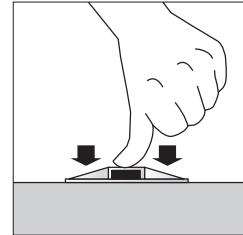
#### Instructions for use



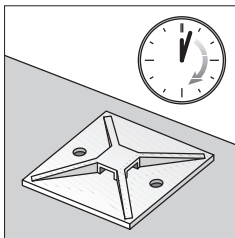
1. The surface must be dry, free from dust, oil, oxides, parting agents and other impurities. The surface to be glued should be cleaned using a clean cloth and isopropanol/water (50/50). When using other appropriate cleaning agents, ensure that they do not attack the surface nor leave any residues. After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

Fixing products for self-adhesive fixing

## 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.

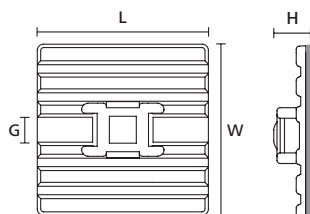


Flexible cable tie mount, FlexTack in use on a concave surface.

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

HF ✓

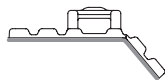
RoHS ✓



Flexible Adhesive Mount FMB4APT-A (plan view)



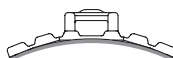
Flexible Adhesive Mount FMB4APT-A (side view)



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.

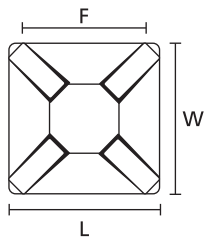
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



## Self-Adhesive Cable Tie Mounts

### TY-Series, PA66 (Black and Natural)

- Operating temperature -40°C to +85°C
- Screwable or self-adhesive versions
- Concave design to support larger diameter cables and bundles
- 2-way mounting base for safe guiding of cables and conduits
- Applications with minimal space
- Mounted before cable installation
- Used with standard cable ties



TY-Series: front view



TY-Series: side view



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



Locally manufactured

Type	Length (L)	Width (W)	Height (H)	Fixing Hole Ø (FH)	Strap Width max. (G)	Material (p3)	Colour	Adhesive	Article-No.
TY3BK	20	20	3.6	3	4	PA66	Black (BK) ■	Acrylic	151-01684
TY3NT	20	20	3.6	3	4	PA66	Natural (NT) ■	Acrylic	151-01686
TY8BK	30	30	4.4	4	8	PA66	Black (BK) ■	Acrylic	151-01688
TY8NT	30	30	4.4	4	8	PA66	Natural (NT) ■	Acrylic	151-01690

All dimensions in mm. Subject to technical changes.

### Recommended Cable Ties

Cable Tie Series	Cable Tie Mount
T18-T30	TY3
T50-T120	TY8

Suitable for the following industries:





# Cable Ties and Fixings

Fixing products for screws

## 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

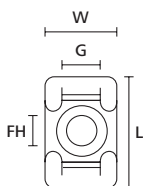
- Curved design for additional cable support
- Simple to install with a screw or bolt
- Excellent security, particularly in areas of high vibration
- Mounts are available in various sizes and materials



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.

EN 45545-2



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



### Screw fixing mounts

#### CTAM-Series for applications where space is limited

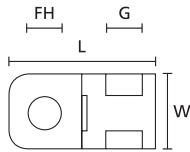
Each of these products offers particular benefits, but all are designed for simple yet robust installation in a wide variety of applications. Particularly used in telecoms equipment, switchgear and control cabinets these cable tie mounts are also used within the aerospace and railway industry.

#### Features and benefits

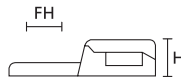
- Suitable for applications with minimal space
- Mounted before cable installation and in line with cable
- CTAM has 4-way entry design for use in line or at 90° angle to cable run
- CTAM mounts are available in different sizes and materials



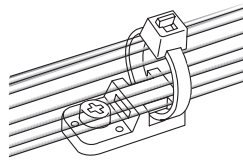
CTAM mounts for applications with limited space.



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.





# Cable Ties and Fixings

Fixing products for screws

## 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

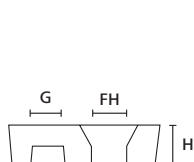


**Material specification**  
please see page 72.

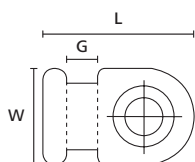


TY- (l) and MB-Series (r) with curved design, screwable.

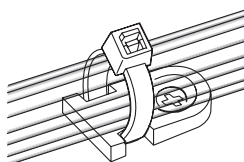
### MB-Series Curved Design, screwable



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

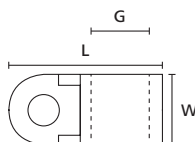
All dimensions in mm. Subject to technical changes.

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

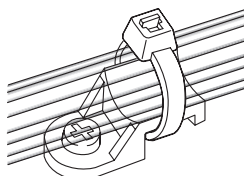
### TY-Series Curved Design, screwable



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.



## Screw fixing mounts

### Stainless Steel 316 mounts

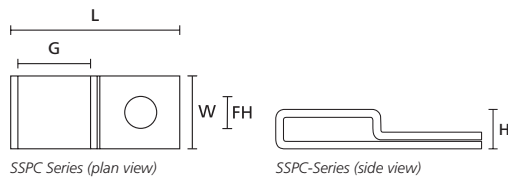
Suitable for the secure fixing of cables, tubing, conduits and pipes within the most arduous of environments. Providing a complete fastening and fixing solution when used in conjunction with stainless steel ties up to 10.0 mm width. SSPC metal cable tie mounts are ideal for use within shipbuilding, oil 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.

# 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 ...

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## Heat Shrinkable Tubing

### Flame Retardant Heat Shrink Tubing 2:1

SGP, PO-X (Black and Colour)

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## Application Tooling for Heat Shrinkable Tubing

### Steinel Heat Guns

HG2120E

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HL1920E

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HL1821S

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### Gas Heat Gun

CHG900

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# Insulation

## Heat Shrinkable Tubing

### Flame Retardant Heat Shrink Tubing 2:1

#### SGP, PO-X (Black and Colour)

- Shrink ratio 2:1
- Operating temperature -55°C to 125°C
- Tensile strength test method ASTM-D-638 14N/mm<sup>2</sup>
- Specific gravity test method ASTM-D-792 1.30 max.
- Longitudinal change test method ASTM-D-638% -10% max.
- Dielectric strength test method ASTM-D-2671kV/mm 20kV/mm
- Dielectric constant test method ASTM-D-150 3.0 max.
- Thermal stability
- Higher resistance to physical abuse
- Cost effective
- Effective electrical insulation and protection for in-line components, disconnect terminals and splices
- Bundles wires and cables for very flexible light-duty harnesses
- Strain-relief for electrical wire connections and colour-code wires, cables, terminals and components



Heatshrink tubing


































HF ✓

RoHS ✓

Type	Supplied IØ(D)	Recovery IØ(d)	Wall (WT) nom.	Material (p4)	Colour	Length (m)	Article-No.
SGP16TBK	1.6	0.8	0.43	PO-X	Black (BK) ■	200	911-01397
SGP16TBL	1.6	0.8	0.43	PO-X	Blue (BL) ■	200	911-01398
SGP16TGYS	1.6	0.8	0.43	PO-X	Green-Yellow Stripe ■	200	911-01399
SGP16TRD	1.6	0.8	0.43	PO-X	Red (RD) ■	200	911-01400
SGP16TYL	1.6	0.8	0.43	PO-X	Yellow (YL) ■	200	911-01401
SGP24TBK	2.4	1.2	0.508	PO-X	Black ■	200	911-01402
SGP24TBL	2.4	1.2	0.508	PO-X	Blue ■	200	911-01404
SGP24TGYS	2.4	1.2	0.508	PO-X	Green-Yellow Stripe ■	200	911-01406
SGP24TRD	2.4	1.2	0.508	PO-X	Red ■	200	911-01407
SGP24TWT	2.4	1.2	0.508	PO-X	White □	200	911-01409
SGP24TYL	2.4	1.2	0.508	PO-X	Yellow ■	200	911-01411
SGP32TBK	3.2	1.6	0.508	PO-X	Black ■	200	911-01413
SGP32TBL	3.2	1.6	0.508	PO-X	Blue ■	200	911-01415
SGP32TGYS	3.2	1.6	0.508	PO-X	Green -Yellow Stripe ■	200	911-01417
SGP32TRD	3.2	1.6	0.508	PO-X	Red ■	200	911-01418
SGP32TWT	3.2	1.6	0.508	PO-X	White □	200	911-01420
SGP32TYL	3.2	1.6	0.508	PO-X	Yellow ■	200	911-01422
SGP48TBK	4.8	2.4	0.508	PO-X	Black ■	100	911-01425
SGP48TBL	4.8	2.4	0.508	PO-X	Blue ■	100	911-01427
SGP48TGYS	4.8	2.4	0.508	PO-X	Green / Yellow Stripe ■	100	911-01429
SGP48TRD	4.8	2.4	0.508	PO-X	Red ■	100	911-01430
SGP48TWT	4.8	2.4	0.508	PO-X	White □	100	911-01432
SGP48TYL	4.8	2.4	0.508	PO-X	Yellow ■	100	911-01434
SGP64TBK	6.4	3.2	0.635	PO-X	Black ■	100	911-01436
SGP64TBL	6.4	3.2	0.635	PO-X	Blue ■	100	911-01438
SGP64TGYS	6.4	3.2	0.635	PO-X	Green / Yellow Stripe ■	100	911-01440
SGP64TRD	6.4	3.2	0.635	PO-X	Red ■	100	911-01441



### SGP, PO-X (Black and Colour)

Type	Supplied IØ(D)	Recovery IØ(d)	Wall (WT) nom.	Material (p4)	Colour	Length (m)	Article-No.
SGP64TWT	6.4	3.2	0.635	PO-X	White 	100	911-01443
SGP64TYL	6.4	3.2	0.635	PO-X	Yellow 	100	911-01445
SGP95TBK	9.5	4.8	0.635	PO-X	Black 	100	911-01447
SGP95TBL	9.5	4.8	0.635	PO-X	Blue 	100	911-01449
SGP95TBN	9.5	4.8	0.635	PO-X	Brown 	100	911-01451
SGP95TGR	9.5	4.8	0.635	PO-X	Green 	100	911-01452
SGP95TGYS	9.5	4.8	0.635	PO-X	Green / Yellow Stripe 	100	911-01453
SGP95TRD	9.5	4.8	0.635	PO-X	Red 	100	911-01454
SGP95TWT	9.5	4.8	0.635	PO-X	White 	100	911-01456
SGP95TYL	9.5	4.8	0.635	PO-X	Yellow 	100	911-01458
SGP127TBK	12.7	6.4	0.635	PO-X	Black 	100	911-01460
SGP127TBL	12.7	6.4	0.635	PO-X	Blue 	100	911-01462
SGP127TBN	12.7	6.4	0.635	PO-X	Brown 	100	911-01464
SGP127TGYS	12.7	6.4	0.635	PO-X	Green / Yellow Stripe 	100	911-01465
SGP127TRD	12.7	6.4	0.635	PO-X	Red 	100	911-01466
SGP127TWT	12.7	6.4	0.635	PO-X	White 	100	911-01468
SGP127TYL	12.7	6.4	0.635	PO-X	Yellow 	100	911-01470
SGP190TBK	19	9.5	0.762	PO-X	Black 	100	911-01472
SGP190TBL	19	9.5	0.762	PO-X	Blue 	100	911-01474
SGP190TGYS	19	9.5	0.762	PO-X	Green / Yellow Stripe 	100	911-01476
SGP190TRD	19	9.5	0.762	PO-X	Red 	100	911-01477
SGP190TWT	19	9.5	0.762	PO-X	White 	100	911-01479
SGP190TYL	19	9.5	0.762	PO-X	Yellow 	100	911-01481
SGP254TBK	25.4	12.7	0.889	PO-X	Black 	50	911-01483
SGP254TBL	25.4	12.7	0.889	PO-X	Blue 	50	911-01486
SGP254TGYS	25.4	12.7	0.889	PO-X	Green / Yellow Stripe 	50	911-01489
SGP254TRD	25.4	12.7	0.889	PO-X	Red 	50	911-01490
SGP254TWT	25.4	12.7	0.889	PO-X	White 	50	911-01493
SGP254TYL	25.4	12.7	0.889	PO-X	Yellow 	50	911-01496
SGP381TGYS	38.1	19.1	1.020	PO-X	Green / Yellow Stripe 	100	911-01503
SGP508GYS	50.8	25.4	1.140	PO-X	Green / Yellow Stripe 	100	911-01504
SGP508TBK	50.8	25.4	1.140	PO-X	Black 50m 	100	911-01505
SGP508TBL	50.8	25.4	1.140	PO-X	Blue 50m 	100	911-01506
SGP508TGYS	50.8	25.4	1.140	PO-X	Green / Yellow Stripe 	100	911-01507
SGP508TRD	50.8	25.4	1.140	PO-X	Red 50m 	100	911-01508
SGP508TWT	50.8	25.4	1.140	PO-X	White 50m 	100	911-01509
SGP508TYL	50.8	25.4	1.140	PO-X	Yellow 50m 	100	911-01510
SGP762TBK	76.2	38.1	1.27	PO-X	Black 	50	911-01512
SGP762TBL	76.2	38.1	1.27	PO-X	Blue 	50	911-01513
SGP762TCL	76.2	38.1	1.27	PO-X	Clear 	50	911-01514
SGP762TRD	76.2	38.1	1.27	PO-X	Red 	50	911-01515
SGP762TWT	76.2	38.1	1.27	PO-X	White 	50	911-01516
SGP762TYL	76.2	38.1	1.27	PO-X	Yellow 	50	911-01517

All dimensions in mm. Subject to technical changes.





# Application Tooling

Application Tooling for Heat Shrinkable Tubing

## HG2120E - Steinel Heat Gun (Professional)

- Thermal cut-out
- Temperature indication by thumb wheel in 9 steps



### Technical Overview

Output	2200W
Operation hours	750
Temperature (°C)	80 – 630°C
Airflow rate (3 steps)	150-500l/min
Heating element	Ceramic
Protection class (without earth terminal)	II
Weight (g)	670

### Model Specification

Optional Accessories	NOZREF Reflector Nozzle, NOZSUR50 50mm Surface Nozzle, NOZRED9 9mm Reduction Nozzle, NOZRED14 Nozzle Reducer 14mm, NOZREF10 Nozzle Solder Reflector 10mm, NOZSUR75 Nozzle Shaping Surface 75mm, NOZWIDE14 Nozzle Welding Wide-Slit 14mm (P142)
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## HL1920E – Steinel Heat Gun

- 9 Step thumb wheel temperature adjustment
- Thermal fuse



### Technical Overview

Output	2000W
Operation hours	600
Temperature (°C)	80 – 600°C
Airflow rate (3 steps)	150-500l/min
Heating element	Ceramic
Protection class (without earth terminal)	II
Weight (g)	840

### Model Specification

Optional Accessories	NOZREF Reflector Nozzle, NOZSUR50 50mm Surface Nozzle, NOZRED9 9mm Reduction Nozzle, NOZSUR75 Nozzle Shaping Surface 75mm (P142)
----------------------	--



## HL1821S - DIY Steinel Heat Gun

- Thermal fuse
- Two step heating setting



### Technical Overview

Output	1800W
Operation hours	600
Temperature (°C)	300 or 550
Airflow rate	350 or 450l/min
Heating element	Micanite
Protection class (without earth terminal)	II
Weight (g)	717

### Model Specification

Optional Accessories	NOZREF Reflector Nozzle, NOZSUR50 50mm Surface Nozzle, NOZRED9 9mm Reduction Nozzle (P142)
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### CHG900 - Gas Heat Gun - Heavy Duty

The HellerMannTyton CHG900 Cordless Heat Gun is powered by P445 gas cartridges, providing autonomous working of 90 minutes in one go. The tool is designed to produce flameless heat which makes it the ideal hot-air gun to apply a huge variety of heat shrink tubing and heat shrink wire markers as well as molded shapes or heat shrink boots, transition shapes, end caps and cable repair sleeves especially in harsh outdoor conditions covering freezing temperatures as low as -8°. CHG900 replaces the obsolete E4500 hot-air tool which will be discontinued upon CHG900 launch.








#### Technical Overview

Operating temperature	+190 °C to +900 °C
Ambient operation temperature	-8°C to +50°C
Operating time	90 minutes per cartridge (60min continuously)
Power	520 W / 1700 BTU
Weight	440g (555g incl Cartridge)

#### Model Specification

Optional Accessories	P444 gas cartridge 1 x Reduction Nozzle 1 x Reflection Nozzle
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CODE PAGE	DESCRIPTION	HG2120E	HL1920E	HL1821S
	<b>NOZRED14</b> Nozzle Reducer 14mm Suggested Use: Concentrated air flow, adapter for wide slit nozzle	151	151	151
	<b>NOZRED9</b> Nozzle Reducer 9mm Suggested Use Delivers hot air with pinpoint precision for de-soldering and welding plastics with welding nozzle	O	O	O
	<b>NOZREF</b> Nozzle Reflector Suggested Use Soldering pipes, fitting heatshrink tubing, thawing frozen pipes and bending pipes.	O	O	O
	<b>NOZREF10</b> Nozzle Solder Reflector 10mm Suggested Use Soldering and heatshrink-fitting soldering sleeves and shrink-on tubing in cable harnesses		O	O
	<b>NOZSUR50</b> Nozzle Surface 50mm Suggested Use Evenly drying, stripping paint and removing films	O	O	O
	<b>NOZSUR75</b> Nozzle Shaping Surface 75mm Suggested Use Evenly drying repair filler, stripping paint and removing films		O	O
	<b>NOZWIDE14</b> Nozzle Welding Wide-Slit 14mm Suggested Use Welding plastic sheeting and tarpaulins		O	O

O Optional

## 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.

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## Product Approvals and Specifications

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## Notes

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# Appendix

## Product Approvals and Specifications

### 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		
HelaDuct HTWD-HF Halogen-Free Wiring Ducts (metric sizes)		
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	

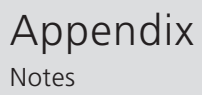
Material	Colour	Specifications	UL-File Number
KR6G5			
PA66	NA	NF EN 45545-2	
KR8G5			
PA66	NA	NF EN 45545-2	
MP3M3			
PA66	NA	NF EN 45545-2	
MP4M3			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64963
MSMP5/10			
PA66	NA	ANSI/UL 1565, ANSI/UL 62275, ANSI/UL 746B	E64139
MSMP6/6			
PA66	NA	ANSI/UL 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
<b>HIS-3</b>	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
<b>TF31</b>	CSA   C22.2 no. 198.1-99, CSA   CSA-C22.2 No.198.1-99, UL   ANSI/UL 224

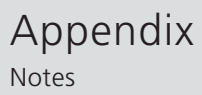
Specifications apply to limited article numbers. Please contact our sales desk for further information.





## Notes





## Notes

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needs**

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



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