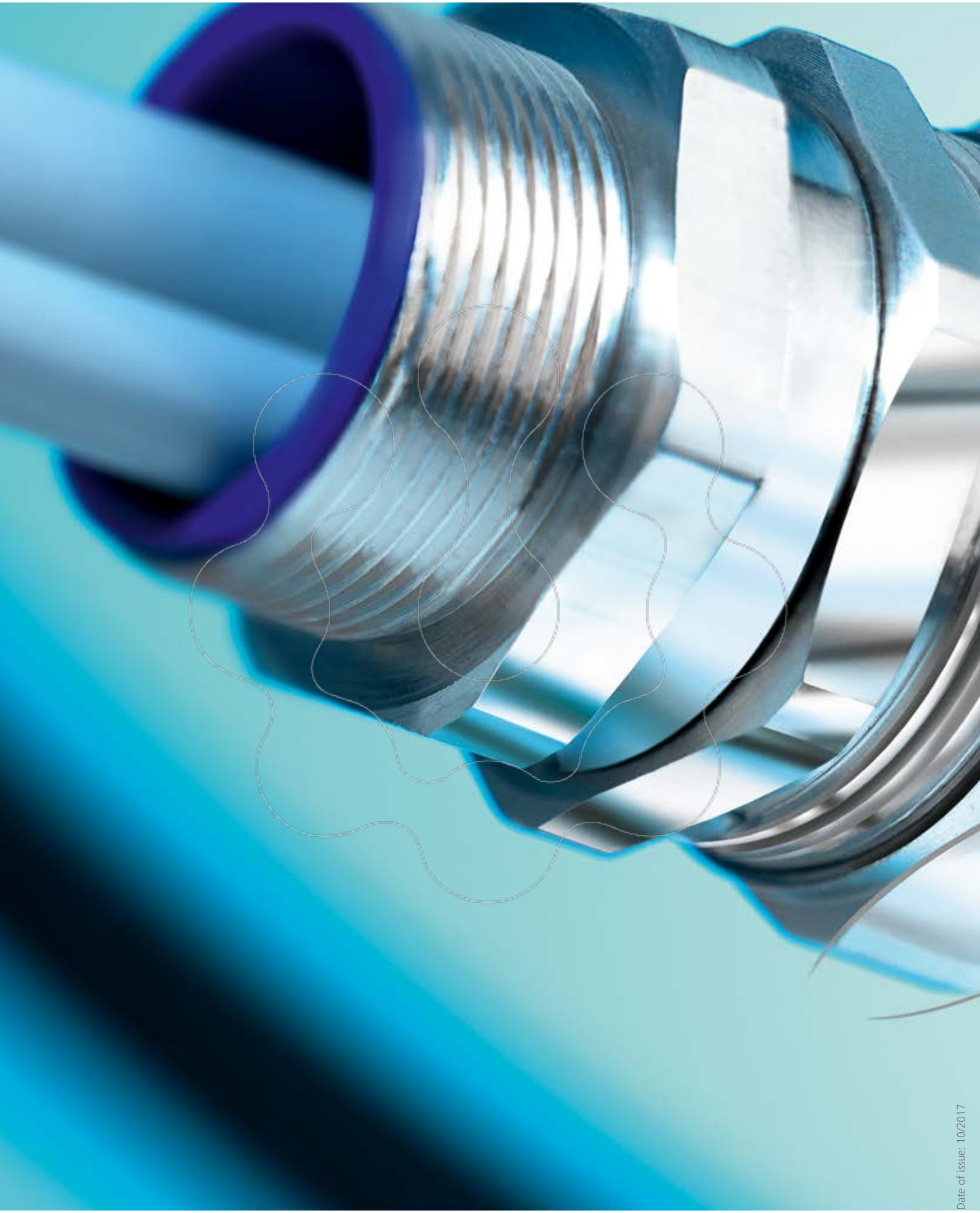

Date of issue: 10/2017

HellermannTyton

Inspired by elemental power

Our HelaGuard conduits and fittings are made to protect cables even in the toughest conditions. Yet our offshore customers challenged us with a whole new dimension: lightening.
We developed a liquid-tight system, resistant to immense pressure and impact as well as intense UV radiation, which withstands and safely diverts powerful and repeated lightning strikes. We simulated such conditions in a special laboratory to prove our solution.
Our technically highly-advanced conduit and fitting not only emerged intact, but are now reliably fulfilling their exacting function in countless off-shore installations across the globe.

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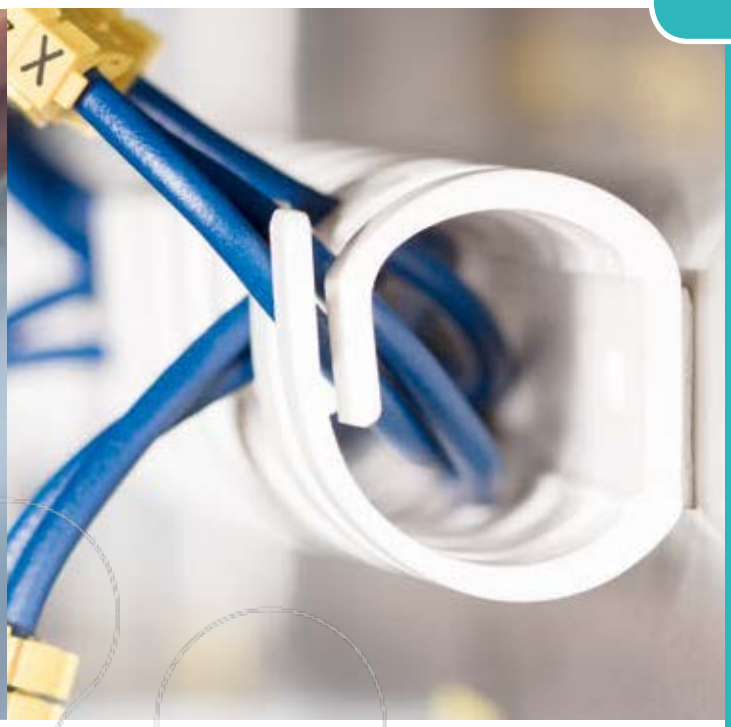

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HellermannTyton
www.HellermannTyton.com

HelaGuard Flexible Conduits and Fittings

For more information on our complete HelaGuard range of non-metallic and metallic conduits and fittings, please see our new HelaGuard catalogue.

Order your HelaGuard catalogue today!

Date of issue: 10/2017

Non-Metallic Conduits

HG-SW PA6 Standard Weight

Standard weight corrugated flexible conduit for industrial applications, including machine building, plant construction, control panels, public buildings.

Features and benefits

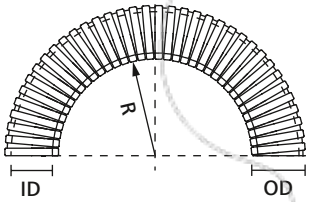
- Very flexible and high fatigue life
- Very abrasion resistant
- High impact strength, recovers if crushed
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Low smoke and low toxicity
- Self-extinguishing according to UL94 V2
- Colour: black (UV resistant); grey on request

HelaGuard HG-SW for industrial applications.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +120 °C
Operating Temperature Moving	-20 °C to +100 °C
Flammability	UL94 V2

HF ✓ RoHS ✓

One Step to the Web!



HelaGuard non-metallic conduit

CAD

CAD download

TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
HG-SW10	10	7.5	10.0	6.3	15	19 g/m	50 m	Black (BK)	166-11100
HG-SW11	11	8.5	11.5	8.2	20	22 g/m	50 m	Black (BK)	166-11101
HG-SW13	13	10	13.0	9.8	25	28 g/m	50 m	Black (BK)	166-11102
HG-SW16	16	12	15.8	11.8	35	38 g/m	25 m	Black (BK)	166-11110
	16	12	15.8	11.8	35	38 g/m	50 m	Black (BK)	166-11103
HG-SW21	21	17	21.2	16.7	45	60 g/m	25 m	Black (BK)	166-11111
	21	17	21.2	16.7	45	60 g/m	50 m	Black (BK)	166-11104
HG-SW28	28	23	28.5	22.8	50	100 g/m	25 m	Black (BK)	166-11105
	28	23	28.5	22.8	50	100 g/m	50 m	Black (BK)	166-11112
HG-SW34	34	29	34.5	28.1	60	135 g/m	25 m	Black (BK)	166-11106
	34	29	34.5	28.1	60	135 g/m	50 m	Black (BK)	166-11118
HG-SW42	42	36	42.5	35.5	70	165 g/m	25 m	Black (BK)	166-11113
HG-SW54	54	48	54.5	47.2	80	235 g/m	25 m	Black (BK)	166-11114
HG-SW67	67	56	67.2	56.3	130	365 g/m	10 m	Black (BK)	166-11109

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

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

Date of issue: 10/2017

Non-Metallic Conduits

HG-LW PA6 Light Weight

Light weight corrugated flexible conduit for machine building, plant construction, control panels and public buildings.

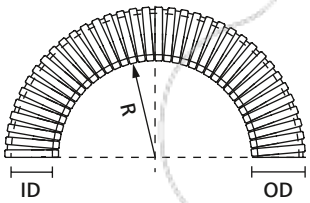
Features and benefits

- Light weight
- Very flexible and high fatigue life
- Small bending radius
- High impact strength and recovers if crushed
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Colour: black; grey (RAL 7031) on request

HelaGuard HG-LW is very light and flexibel.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +120 °C
Operating Temperature Moving	-20 °C to +100 °C
Flammability	self-extinguishing according to EN IEC 61386

HF ✓ RoHS ✓



HelaGuard non-metallic conduit

TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
HG-LW10	10	7.5	10.0	6.5	15	18 g/m	50 m	Black (BK)	166-11200
HG-LW11	11	8.5	11.5	8.3	20	22 g/m	50 m	Black (BK)	166-11201
HG-LW13	13	10	13.0	10.0	25	24 g/m	50 m	Black (BK)	166-11202
HG-LW16	16	12	15.8	12.0	35	36 g/m	50 m	Black (BK)	166-11203
HG-LW21	21	17	21.2	16.9	40	56 g/m	50 m	Black (BK)	166-11204
HG-LW28	28	23	28.5	23.0	45	90 g/m	50 m	Black (BK)	166-11205
HG-LW34	34	29	34.5	28.3	55	110 g/m	50 m	Black (BK)	166-11206
HG-LW42	42	36	42.5	35.7	65	150 g/m	25 m	Black (BK)	166-11207
HG-LW54	54	48	54.5	47.4	80	200 g/m	25 m	Black (BK)	166-11208
HG-LW67	67	56	67.2	56.5	110	310 g/m	10 m	Black (BK)	166-11209

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

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

Date of issue: 10/2017

Non-Metallic Conduits

HG-FR PA6 Flame Retardant

Flame-retardant standard weight corrugated flexible conduit is used where high fire-protection is required, including railway vehicles, tunnels and underground stations as well as public buildings.

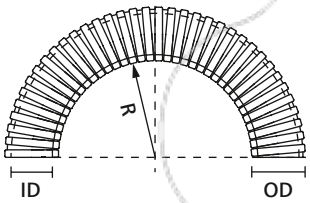
Features and benefits

- Highly flame retardant (UL94 V0)
- Low smoke, low toxicity
- Very flexible and high fatigue life
- High impact strength, recovers if crushed
- Abrasion resistant
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Colour: black (UV resistant)

HelaGuard HG-FR offers excellent fire protection properties.

MATERIAL	Polyamide 6, flame retardant (PA6-FR)
Operating Temperature	-40 °C to +120 °C
Operating Temperature Moving	-20 °C to +100 °C
Flammability	UL94 V0

HF ✓ RoHS ✓



HelaGuard non-metallic conduit

TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
HG-FR10	10	7.5	10.0	6.3	15	19 g/m	50 m	Black (BK)	166-11400
HG-FR13	13	10	13.0	9.8	25	28 g/m	50 m	Black (BK)	166-11401
HG-FR16	16	12	15.8	11.8	35	38 g/m	50 m	Black (BK)	166-11402
HG-FR21	21	17	21.2	16.7	45	60 g/m	50 m	Black (BK)	166-11403
HG-FR28	28	23	28.5	21.7	50	100 g/m	50 m	Black (BK)	166-11404
HG-FR34	34	29	34.5	28.1	60	135 g/m	50 m	Black (BK)	166-11405
HG-FR42	42	36	42.5	35.5	70	165 g/m	25 m	Black (BK)	166-11406
HG-FR54	54	48	54.5	47.2	80	235 g/m	25 m	Black (BK)	166-11407

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

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

Date of issue: 10/2017

Non-Metallic Conduits

HG-DC Double Slit

Double slit corrugated conduit for retrofitting is used in control panels, machine building, plant construction.

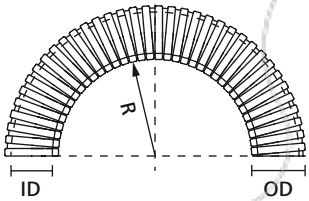
Features and benefits

- Can be opened and closed repeatedly
- Cables can be inserted laterally
- Abrasion resistant
- Free of halogen, sulphur and phosphorus
- Self-extinguishing to IEC 61386
- Colour: black

HelaGuard HG-DC double slit conduit is ideal for retrofitting.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +120 °C
Flammability	UL94 V2

HF ✓ RoHS ✓



HelaGuard non-metallic conduit

TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
HG-DC11	11	8.5	11.5	6.2	45	37 g/m	50 m	Black (BK)	166-11800
HG-DC13	13	10	12.9	7.9	55	46 g/m	50 m	Black (BK)	166-11801
HG-DC16	16	12	16.2	10.3	60	72 g/m	50 m	Black (BK)	166-11802
HG-DC21	21	17	21.0	13.7	90	110 g/m	50 m	Black (BK)	166-11803
HG-DC28	28	23	28.4	19.8	105	166 g/m	50 m	Black (BK)	166-11804
HG-DC34	34	29	34.2	26.6	150	180 g/m	25 m	Black (BK)	166-11805
HG-DC42	42	36	43.5	32.3	170	293 g/m	25 m	Black (BK)	166-11806
HG-DC54	54	48	53.3	44.0	170	378 g/m	25 m	Black (BK)	166-11807

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

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Fittings with fixed external thread

HG-S Straight fitting, IP66

Straight external thread.

Features and benefits

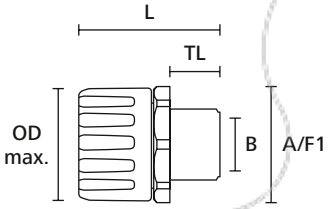
- One piece, fast fit
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Metric threads supplied with locknuts

Fittings with PG and swivel threads are also available. For our complete range of conduits and fittings, please see our HelaGuard catalogue.

HelaGuard HG-S Straight, IP66.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2

HF ✓ RoHS ✓



HelaGuard fitting, straight with fixed external thread

TYPE	Nominal Ø	Thread Size	Min. Bore Size (B)	Outside Ø max (OD max.)	Length (L)	A/F Body (A/F1)	Thread Length (TL)	Pack Cont.	Colour	Article-No.
HG10-S-M12	10	M12	7.5	19	33	19	9	10 pcs.	Black (BK)	166-21000
HG10-S-M16	10	M16	9.5	19	35	19	11	10 pcs.	Black (BK)	166-21020
HG11-S-M12	11	M12	7.5	19	33	19	9	10 pcs.	Black (BK)	166-21021
HG13-S-M12	13	M12	7.5	24	35	23	9	10 pcs.	Black (BK)	166-21022
HG13-S-M16	13	M16	11.0	24	37	23	11	10 pcs.	Black (BK)	166-21001
HG13-S-M20	13	M20	12.5	24	40	23	14	10 pcs.	Black (BK)	166-21023
HG16-S-M16	16	M16	11.0	29	41	28	11	10 pcs.	Black (BK)	166-21002
HG16-S-M20	16	M20	14.5	29	34	28	14	10 pcs.	Black (BK)	166-21003
HG20-S-M20	20	M20	14.5	32	44	30	14	10 pcs.	Black (BK)	166-21025
HG21-S-M20	21	M20	14.5	32	44	30	14	10 pcs.	Black (BK)	166-21004
HG25-S-M25	25	M25	19.5	39	49	37	15	10 pcs.	Black (BK)	166-21026
HG28-S-M25	28	M25	19.5	44	49	42	15	10 pcs.	Black (BK)	166-21005
HG28-S-M32	28	M32	26.5	44	50	42	16	10 pcs.	Black (BK)	166-21027
HG34-S-M32	34	M32	26.5	51	53	49	16	10 pcs.	Black (BK)	166-21006
HG34-S-M40	34	M40	32.5	51	53	49	16	10 pcs.	Black (BK)	166-21028
HG42-S-M40	42	M40	32.5	63	60	60	16	2 pcs.	Black (BK)	166-21007
HG42-S-M50	42	M50	40.5	63	60	60	16	2 pcs.	Black (BK)	166-21029
HG54-S-M50	54	M50	42.0	76	65	73	16	2 pcs.	Black (BK)	166-21008
HG54-S-M63	54	M63	53.0	76	65	73	16	2 pcs.	Black (BK)	166-21030
HG67-S-M63	67	M63	56.0	90	70	87	16	1 pc.	Black (BK)	166-21009

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

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

CAD download

Date of issue: 10/2017

Fittings with fixed external thread

HG-90 90° Elbow fitting, IP66

90° elbow external thread.

Features and benefits

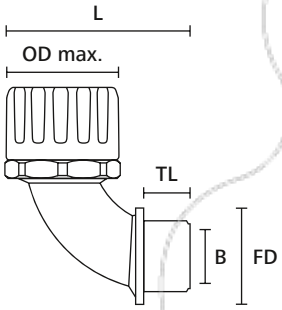
- One piece, fast fit
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Metric threads supplied with locknuts

Fittings with PG and swivel threads are also available. For our complete range of conduits and fittings, please see our HelaGuard catalogue.

HelaGuard HG-90 90° Elbow, IP66.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2

HF ✓ RoHS ✓



HelaGuard fitting, 90° with fixed external thread

TYPE	Nominal Ø	Thread Size	Min. Bore Size (B)	Outside Ø max (OD max.)	Length (L)	Face Diameter (FD)	Thread Length (TL)	Pack Cont.	Colour	Article-No.
HG10-90-M12	10	M12	6.5	19	32	17	8	10 pcs.	Black (BK)	166-22200
HG11-90-M12	11	M12	6.5	19	32	17	8	10 pcs.	Black (BK)	166-22220
HG13-90-M16	13	M16	10.5	24	46	22	11	10 pcs.	Black (BK)	166-22201
HG16-90-M16	16	M16	10.5	29	49	22	11	10 pcs.	Black (BK)	166-22202
HG16-90-M20	16	M20	14.0	29	51	27	13	10 pcs.	Black (BK)	166-22203
HG21-90-M20	21	M20	14.0	32	53	27	13	10 pcs.	Black (BK)	166-22204
HG25-90-M25	25	M25	19.0	39	63	32	15	10 pcs.	Black (BK)	166-22222
HG28-90-M25	28	M25	19.0	44	66	32	15	10 pcs.	Black (BK)	166-22205
HG34-90-M32	34	M32	24.5	51	75	40	16	10 pcs.	Black (BK)	166-22206
HG42-90-M40	42	M40	32.5	63	98	50	16	2 pcs.	Black (BK)	166-22207
HG42-90-M50	42	M50	39.0	63	99	60	16	2 pcs.	Black (BK)	166-22223
HG54-90-M50	54	M50	39.0	76	104	60	16	2 pcs.	Black (BK)	166-22208
HG54-90-M63	54	M63	49.5	76	104	72	16	2 pcs.	Black (BK)	166-22224
HG67-90-M63	67	M63	49.5	90	120	72	16	1 pc.	Black (BK)	166-22209

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

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

Date of issue: 10/2017

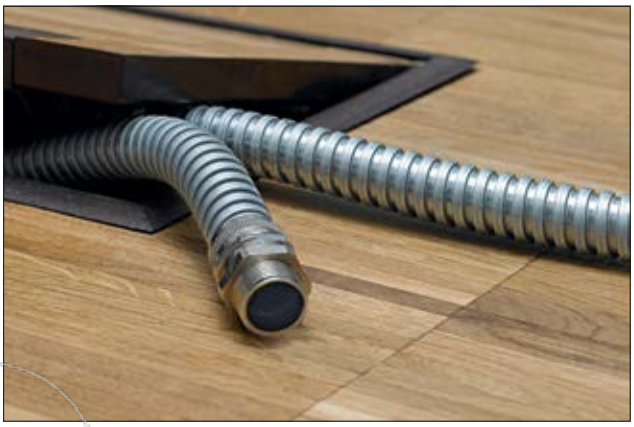
Metallic conduits

SC Galvanised steel conduit

General purpose flexible steel conduit offers high mechanical protection and is typically used in machines, plants, underfloor wiring, data cabling and protection of hydraulic or pneumatic hoses.

Features and benefits

- High compression, tensile and impact strength
- Very flexible

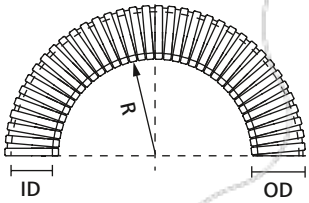


HelaGuard SC Galvanised Steel Conduit.

One Step to the Web!

MATERIAL	Galvanised Steel (GS)
Operating Temperature	-100 °C to +300 °C

HF ✓ RoHS ✓



HelaGuard metallic conduit

TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
SC10	10	9.1	6.8	25	110 g/m	10 m	Metal (ML)	166-30110
	10	9.1	6.8	25	110 g/m	50 m	Metal (ML)	166-30100
SC12	12	13.2	10.0	30	113 g/m	10 m	Metal (ML)	166-30111
	12	13.2	10.0	30	113 g/m	50 m	Metal (ML)	166-30101
SC16	16	16.4	12.9	40	152 g/m	10 m	Metal (ML)	166-30112
	16	16.4	12.9	40	152 g/m	25 m	Metal (ML)	166-30102
SC20	20	20.6	16.9	45	295 g/m	10 m	Metal (ML)	166-30113
	20	20.6	16.9	45	295 g/m	25 m	Metal (ML)	166-30103
SC25	25	24.6	21.1	55	321 g/m	10 m	Metal (ML)	166-30114
	25	24.6	21.1	55	321 g/m	25 m	Metal (ML)	166-30104
SC32	32	32.0	28.1	70	450 g/m	10 m	Metal (ML)	166-30115
	32	32.0	28.1	70	450 g/m	25 m	Metal (ML)	166-30105
SC40	40	42.5	37.6	80	519 g/m	10 m	Metal (ML)	166-30116
	40	42.5	37.6	80	519 g/m	25 m	Metal (ML)	166-30106
SC50	50	53.2	48.4	90	802 g/m	10 m	Metal (ML)	166-30117
	50	53.2	48.4	90	802 g/m	25 m	Metal (ML)	166-30107
SC63	63	62.5	57.5	115	836 g/m	10 m	Metal (ML)	166-30108
SC75	75	77.0	70.0	150	1,137 g/m	10 m	Metal (ML)	166-30109

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

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Date of issue: 10/2017

Metallic conduits

SSC Stainless steel conduit

Stainless steel, corrosion-resistant flexible conduit used for protection of sensor cables, instrumentation tubing, as well as hydraulic and pneumatic hoses, particularly in corrosive environments. Commonly used in hospitals and clinics.

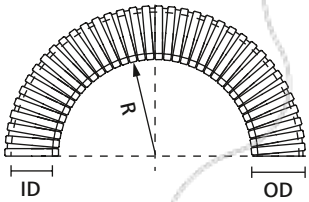
Features and benefits

- Highly resistant to rust and corrosion
- High compression, tensile and impact strength
- Very flexible

The HelaGuard SSC stainless steel conduit offers superior mechanical protection in corrosive environments.

MATERIAL	Stainless Steel (SS316)
Operating Temperature	-100 °C to +400 °C

HF ✓ RoHS ✓



HelaGuard metallic conduit

TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
SSC10	10	9.1	6.8	25	110 g/m	25 m	Metal (ML)	166-30200
SSC12	12	12.3	10.0	40	126 g/m	25 m	Metal (ML)	166-30201
SSC16	16	16.4	13.0	40	162 g/m	25 m	Metal (ML)	166-30202
SSC20	20	20.4	16.9	45	202 g/m	25 m	Metal (ML)	166-30203
SSC25	25	24.3	21.1	55	300 g/m	25 m	Metal (ML)	166-30204
SSC32	32	31.7	28.1	70	340 g/m	25 m	Metal (ML)	166-30205
SSC40	40	42.1	37.6	80	410 g/m	10 m	Metal (ML)	166-30206
SSC50	50	52.8	48.4	90	516 g/m	10 m	Metal (ML)	166-30207

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

Date of issue: 10/2017

Fittings for metallic conduits

SC-FM Fixed external thread

Fixed external thread, nickel plated brass.

Features and benefits

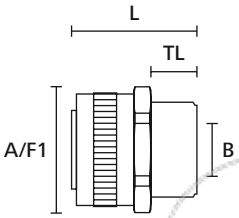
- Two-part fitting of shell and body with external thread
- Provides tight, reliable hold of conduit
- Can be secured with locknut

Fittings with PG and swivel threads are also available. For our complete range of conduits and fittings, please see our HelaGuard catalogue.

HelaGuard SC-FM Fixed External Thread.

MATERIAL	Nickel Plated Brass (NPB)
Operating Temperature	-100 °C to +300 °C

HF ✓ RoHS ✓



HelaGuard fitting, straight with fixed external thread

TYPE	Nominal Ø	Thread Size	Min. Bore Size (B)	Length (L)	A/F Body (A/F1)	Thread Length (TL)	Pack Cont.	Colour	Article-No.
SC10-FM-M12	10	M12	5.6	21.0	13	7.0	10 pcs.	Metal (ML)	166-30300
SC12-FM-M16	12	M16	8.5	23.0	17	10.0	10 pcs.	Metal (ML)	166-30301
SC16-FM-M16	16	M16	11.5	25.0	20	10.0	10 pcs.	Metal (ML)	166-30302
SC16-FM-M20	16	M20	11.5	25.0	22	10.0	10 pcs.	Metal (ML)	166-30303
SC20-FM-M20	20	M20	15.3	26.3	24	10.0	10 pcs.	Metal (ML)	166-30304
SC25-FM-M25	25	M25	19.1	29.5	29	10.0	10 pcs.	Metal (ML)	166-30305
SC32-FM-M32	32	M32	26.2	36.8	36	13.0	2 pcs.	Metal (ML)	166-30306
SC40-FM-M40	40	M40	34.6	39.0	48	14.0	2 pcs.	Metal (ML)	166-30307
SC50-FM-M50	50	M50	44.7	42.0	58	15.0	1 pc.	Metal (ML)	166-30308
SC63-FM-M63	63	M63	54.1	50.0	70	18.0	1 pc.	Metal (ML)	166-30309
SC75-FM-M75	75	M75	66.4	60.0	84	20.0	1 pc.	Metal (ML)	166-30310

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

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Date of issue: 10/2017

Metallic conduits with plastic coating

PCS Galvanised metallic conduit, PVC coating

Flexible galvanised steel conduit with PVC coating, typically used in machine and plant construction and electrical installations.

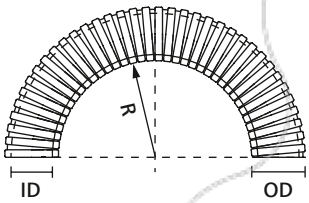
Features and benefits

- High compression, tensile and impact strength
- Very flexible
- Good resistance to alkalis and acids
- Good resistance to chemicals

HelaGuard PCS Galvanised Steel Conduit with PVC Coating.

MATERIAL	Galvanised Steel (GS), Polyvinylchloride (PVC)
Operating Temperature	-15 °C to +70 °C

RoHS



HelaGuard metallic conduit, plastic coating

TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
PCS10	10	10.1	6.8	25	140 g/m	10 m	Grey (GY)	166-30722
	10	10.1	6.8	25	140 g/m	50 m	Black (BK)	166-30700
PCS12	12	14.2	10.2	30	143 g/m	10 m	Grey (GY)	166-30723
	12	14.2	10.2	30	143 g/m	50 m	Black (BK)	166-30701
PCS16	16	17.0	13.0	40	196 g/m	10 m	Grey (GY)	166-30724
	16	17.1	13.0	40	196 g/m	25 m	Black (BK)	166-30702
PCS20	20	21.6	16.9	45	345 g/m	10 m	Grey (GY)	166-30725
	20	21.6	16.9	45	345 g/m	25 m	Black (BK)	166-30703
PCS25	25	26.0	21.1	55	411 g/m	10 m	Grey (GY)	166-30726
	25	26.0	21.1	55	411 g/m	25 m	Black (BK)	166-30704
PCS32	32	34.0	28.1	60	560 g/m	10 m	Grey (GY)	166-30727
	32	34.0	28.1	60	560 g/m	25 m	Black (BK)	166-30705
PCS40	40	44.2	37.6	80	719 g/m	10 m	Grey (GY)	166-30728
	40	44.2	37.6	80	719 g/m	25 m	Black (BK)	166-30706
PCS50	50	55.0	48.4	90	1,052 g/m	10 m	Grey (GY)	166-30729
	50	55.0	48.4	90	1,052 g/m	25 m	Black (BK)	166-30707
PCS63	63	64.5	57.5	115	1,091 g/m	10 m	Black (BK)	166-30708
	63	64.5	57.5	115	1,091 g/m	10 m	Grey (GY)	166-30730
PCS75	75	79.2	70.0	150	1,459 g/m	10 m	Black (BK)	166-30709
	75	79.2	70.0	150	1,459 g/m	10 m	Grey (GY)	166-30731

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

Date of issue: 10/2017

Fittings for metallic conduits with plastic coating

PCS-FM Fixed external thread, IP54

Fixed external thread, nickel plated brass.

Features and benefits

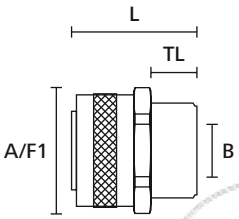
- Two-part fitting of shell and body with external thread
- Provides tight, reliable hold of conduit
- Can be secured with locknut

Fittings with PG and swivel threads are also available. For our complete range of conduits and fittings, please see our HelaGuard catalogue.

HelaGuard PCS-FM Fixed External Thread.

MATERIAL	Nickel Plated Brass (NPB)
Operating Temperature	-100 °C to +300 °C

HF ✓ RoHS ✓



HelaGuard fitting, straight with fixed external thread

TYPE	Nominal Ø	Thread Size	Min. Bore Size (B)	Length (L)	A/F Body (A/F1)	Thread Length (TL)	Pack Cont.	Colour	Article-No.
PCS10-FM-M12	10	M12	5.6	21.0	13	8.0	10 pcs.	Metal (ML)	166-31000
PCS12-FM-M16	12	M16	8.5	23.0	17	8.0	10 pcs.	Metal (ML)	166-31001
PCS16-FM-M16	16	M16	11.5	25.0	20	10.0	10 pcs.	Metal (ML)	166-31002
PCS16-FM-M20	16	M20	11.5	25.0	22	10.0	10 pcs.	Metal (ML)	166-31003
PCS20-FM-M20	20	M20	15.3	26.3	24	10.0	10 pcs.	Metal (ML)	166-31004
PCS25-FM-M25	25	M25	19.1	32.5	29	10.0	10 pcs.	Metal (ML)	166-31005
PCS32-FM-M32	32	M32	26.2	36.8	36	13.0	2 pcs.	Metal (ML)	166-31006
PCS40-FM-M40	40	M40	34.6	39.0	48	14.0	2 pcs.	Metal (ML)	166-31007
PCS50-FM-M50	50	M50	44.7	42.0	58	15.0	1 pc.	Metal (ML)	166-31008
PCS63-FM-M63	63	M63	54.5	50.0	70	18.0	1 pc.	Metal (ML)	166-31009
PCS75-FM-M75	75	M75	66.5	60.0	84	20.0	1 pc.	Metal (ML)	166-31019

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

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Date of issue: 10/2017

Fittings for metallic conduits with plastic coating

PCS-FMC Fixed thread compression fitting, IP65

External thread, nickel plated brass.

Fulfils IP65.

Features and benefits

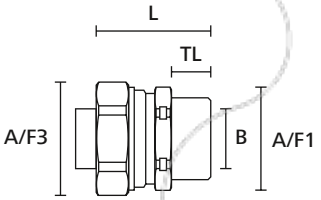
- Multipart compression fitting including elastomeric seal
- Provides excellent tensile strength
- Can be used for knockouts or threaded entries as fitting rotates until tightened

HelaGuard PCS-FMC Compression Fitting.

Fittings with PG and swivel threads are also available. For our complete range of conduits and fittings, please see our HelaGuard catalogue.

MATERIAL	Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)	Nickel Plated Brass (NPB), Polyamide 6 (PA6)
Operating Temperature	-40 °C to +135 °C	

HF ✓ RoHS ✓



HelaGuard compression fitting, straight with fixed external thread

TYPE	Nominal Ø	Thread Size	Min. Bore Size (B)	Length (L)	A/F Body (A/F1)	A/F Nut (A/F3)	Thread Length (TL)	Pack Cont.	Colour	Article-No.
PCS10-FMC-M12	10	M12	5.6	29.8	20	20	10.0	10 pcs.	Metal (ML)	166-31400
PCS12-FMC-M16	12	M16	8.6	29.8	20	22	10.0	10 pcs.	Metal (ML)	166-31401
PCS16-FMC-M16	16	M16	11.5	33.0	24	26	12.0	10 pcs.	Metal (ML)	166-31402
PCS16-FMC-M20	16	M20	11.5	33.0	24	26	12.0	10 pcs.	Metal (ML)	166-31403
PCS20-FMC-M20	20	M20	15.3	33.5	26	29	12.0	10 pcs.	Metal (ML)	166-31404
PCS25-FMC-M25	25	M25	19.1	40.5	33	35	14.0	10 pcs.	Metal (ML)	166-31405
PCS32-FMC-M32	32	M32	26.0	45.8	40	42	15.0	2 pcs.	Metal (ML)	166-31406
PCS40-FMC-M40	40	M40	34.6	47.5	56	58	16.0	2 pcs.	Metal (ML)	166-31407
PCS50-FMC-M50	50	M50	44.7	51.0	70	70	16.0	1 pc.	Metal (ML)	166-31408

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

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Date of issue: 10/2017

Metallic conduits with liquid-tight cover

LTS Galvanised steel conduit, PVC cover

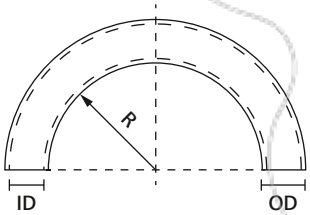
Flexible galvanised steel conduit with smooth, liquid-tight PVC cover. Fulfills IP66, IP67, IP68 and IP69k with LTS-fittings. LTS is used in machine tools and outdoor installations, wherever liquid-tight is a requirement.

Features and benefits

- Liquid-tight (IP68 and IP69k with LTS fittings)
- High compression, tensile and impact strength
- Good flexibility
- Smooth outer cover does not wrinkle when bent
- Good resistance to acids, petrol, oils and greases
- UV-resistant, suitable for outdoor use

HelaGuard LTS.

HelaGuard LTS galvanised steel conduit with a smooth, liquid-tight PVC cover is ideal for outdoor installations.



HelaGuard liquid-tight metallic conduit, plastic coating

MATERIAL	Galvanised Steel (GS), Polyvinylchloride (PVC)
Operating Temperature	-20 °C to +105 °C

RoHS

TYPE	Nominal Ø	US Trade Size	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
LTS10	10	1/4 "	11.8	7.0	35	185 g/m	50 m	Black (BK)	166-31900
LTS12	12	5/16 "	14.2	10.0	40	203 g/m	25 m	Black (BK)	166-31901
LTS16	16	3/8 "	17.8	12.6	45	311 g/m	25 m	Black (BK)	166-31902
LTS20	20	1/2 "	21.1	16.0	65	407 g/m	25 m	Black (BK)	166-31903
LTS25	25	3/4 "	26.4	21.1	100	503 g/m	25 m	Black (BK)	166-31904
LTS32	32	1 "	33.1	26.5	135	732 g/m	25 m	Black (BK)	166-31905
LTS40	40	1 1/4 "	41.8	35.4	175	885 g/m	25 m	Black (BK)	166-31906
LTS50	50	1 1/2 "	47.9	40.4	230	1,240 g/m	25 m	Black (BK)	166-31907
LTS63	63	2 "	59.7	51.6	280	1,470 g/m	10 m	Black (BK)	166-31908

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

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

Date of issue: 10/2017

Fittings for metallic conduits with liquid-tight cover

LTS-FMC Fixed thread compression fitting, IP68

External thread, nickel plated brass.

Fulfils IP66, IP67, IP68 and IP69k.

Features and benefits

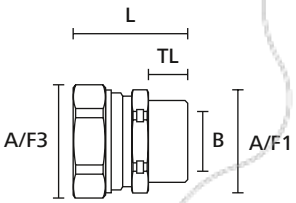
- Multipart compression fitting including elastomeric seal
- Provides excellent tensile strength
- Can be used for knockouts or threaded entries as fitting rotates until tightened

Fittings with PG and swivel threads are also available. For our complete range of conduits and fittings, please see our HelaGuard catalogue.

HelaGuard LTS-FMC Compression Fitting.

MATERIAL	Nickel Plated Brass (NPB), Polyamide 6 (PA6)
Operating Temperature	-40 °C to +135 °C

HF ✓ RoHS ✓



HelaGuard compression fitting, straight with fixed external thread

TYPE	Nominal Ø	Thread Size	Min. Bore Size (B)	Length (L)	A/F Body (A/F1)	A/F Nut (A/F3)	Thread Length (TL)	Pack Cont.	Colour	Article-No.
LTS10-FMC-M12	10	M12	5.6	29.8	20	20	10.0	10 pcs.	Metal (ML)	166-32200
LTS10-FMC-M16	10	M16	5.6	29.8	20	20	10.0	10 pcs.	Metal (ML)	166-32201
LTS12-FMC-M16	12	M16	8.6	29.8	20	22	10.0	10 pcs.	Metal (ML)	166-32203
LTS16-FMC-M16	16	M16	10.7	33.0	24	26	12.0	10 pcs.	Metal (ML)	166-32204
LTS16-FMC-M20	16	M20	10.7	33.0	24	26	12.0	10 pcs.	Metal (ML)	166-32205
LTS20-FMC-M20	20	M20	14.5	33.5	26	29	12.0	10 pcs.	Metal (ML)	166-32206
LTS25-FMC-M25	25	M25	18.0	40.5	33	35	14.0	10 pcs.	Metal (ML)	166-32207
LTS32-FMC-M32	32	M32	24.6	45.8	40	42	15.0	2 pcs.	Metal (ML)	166-32208
LTS40-FMC-M40	40	M40	32.7	47.5	50	52	16.0	1 pc.	Metal (ML)	166-32209
LTS50-FMC-M50	50	M50	37.7	53.0	58	58	18.0	1 pc.	Metal (ML)	166-32210
LTS63-FMC-M63	63	M63	49.0	58.8	70	70	20.0	1 pc.	Metal (ML)	166-32211

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

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Date of issue: 10/2017

Spiral-reinforced PVC conduits

PSR Conduit

Flexible, smooth bore conduit with spiral rigid PVC reinforcement and flexible PVC cover. PSR conduits are typically use in machine building, plant construction, shipbuilding, automation, and electrical installations.

Features and benefits

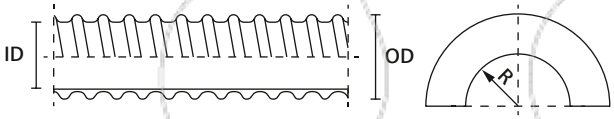
- Extremely flexible
- Withstands torsional movement
- Self-extinguishing
- Easy to feed cables into conduit
- Can be used with PSR PA66 fittings
- Colour: grey; black, green (oil resistant) or blue (high temperature resistant) upon request

PSR is extremely flexible and allows for easy insertion of cables.

MATERIAL	Polyvinylchloride (PVC)
Operating Temperature	-20 °C to +70 °C
Flammability	self-extinguishing according to EN IEC 61386

RoHS

One Step to the Web!



HelaGuard spiral reinforced conduit

PSR conduit with higher resistance to oil (color: green) and temperature (colour: blue) available on request.

TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
PSR12	12	14.5	10	25	71 g/m	30 m	Grey (GY)	166-40001
PSR16	16	16.5	12	25	76 g/m	30 m	Grey (GY)	166-40002
PSR20	20	21.0	16	35	112 g/m	30 m	Grey (GY)	166-40003
PSR25	25	27.5	22	45	153 g/m	30 m	Grey (GY)	166-40004
PSR32	32	33.5	28	60	327 g/m	30 m	Grey (GY)	166-40005
PSR40	40	41.0	35	80	448 g/m	30 m	Grey (GY)	166-40006
PSR50	50	46.4	40	105	725 g/m	30 m	Grey (GY)	166-40007
PSR63	63	57.0	50	120	948 g/m	30 m	Grey (GY)	166-40008

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

Date of issue: 10/2017

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

Fittings for spiral-reinforced PVC conduits

PSR-S Straight fitting

Straight PA66 fitting, fixed external thread.

Fulfils IP65 with PSR conduits.

Fulfils IP66 and IP67 with PSRSC conduits.

Features and benefits

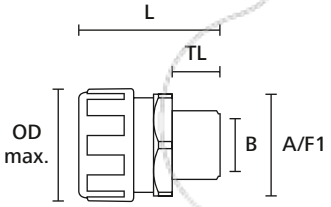
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Metric threads supplied with locknuts
- Fits both PSR and PSRSC conduits

PSR-S Straight.

Fittings with PG-Thread and in 90° and 45° are also available. For our complete range of conduits and fittings, please see our HelaGuard catalogue.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2

HF ✓ RoHS ✓



HelaGuard fitting, straight with fixed external thread

TYPE	Nominal Ø	Thread Size	Min. Bore Size (B)	Outside Ø max (OD max.)	Length (L)	A/F Body (A/F1)	Thread Length (TL)	Pack Cont.	Colour	Article-No.
PSR12-S-M16	12	M16	9.0	24	38	23	11	10 pcs.	Grey (GY)	166-40701
PSR16-S-M16	16	M16	10.5	28	40	25	11	10 pcs.	Grey (GY)	166-40702
PSR16-S-M20	16	M20	10.5	28	41	25	14	10 pcs.	Grey (GY)	166-40703
PSR20-S-M20	20	M20	14.5	33	43	30	14	10 pcs.	Grey (GY)	166-40704
PSR25-S-M25	25	M25	19.0	42	45	37	15	10 pcs.	Grey (GY)	166-40705
PSR32-S-M32	32	M32	24.5	48	48	45	16	10 pcs.	Grey (GY)	166-40706
PSR40-S-M40	40	M40	33.0	60	59	60	16	2 pcs.	Grey (GY)	166-40707
PSR50-S-M50	50	M50	39.0	64	55	60	16	2 pcs.	Grey (GY)	166-40708
PSR63-S-M63	63	M63	48.0	76	56	73	16	1 pc.	Grey (GY)	166-40709

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

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

Date of issue: 10/2017

Fittings for spiral-reinforced PVC conduits

PSR-90 90° elbow fitting

90° PA66 fitting, fixed external thread.

Fulfils IP65 with PSR conduits.

Fulfils IP66 and IP67 with PSRSC conduits.

Features and benefits

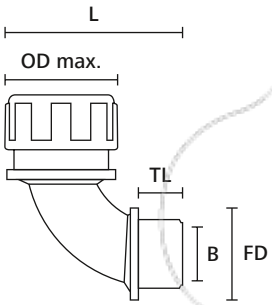
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Metric threads supplied with locknuts
- Fits both PSR and PSRSC conduits

Fittings with PG-Thread and in 90° and 45° are also available. For our complete range of conduits and fittings, please see our HelaGuard catalogue.

PSR-90 90° Elbow.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2

HF ✓ RoHS ✓



HelaGuard fitting, 90° with fixed external thread

TYPE	Nominal Ø	Thread Size	Min. Bore Size (B)	Outside Ø max (OD max.)	Length (L)	Face Diameter (FD)	Thread Length (TL)	Pack Cont.	Article-No.
PSR16-90-M16	16	M16	10.5	28	49	22	11	10 pcs.	166-40801
PSR16-90-M20	16	M20	10.5	28	51	27	13	10 pcs.	166-40802
PSR20-90-M20	20	M20	14.5	33	52	27	13	10 pcs.	166-40803
PSR25-90-M25	25	M25	19.0	42	63	33	15	10 pcs.	166-40804
PSR32-90-M32	32	M32	24.5	48	74	40	16	2 pcs.	166-40805
PSR40-90-M40	40	M40	33.0	60	113	50	16	2 pcs.	166-40806

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

CAD

CAD download

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

Date of issue: 10/2017

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.

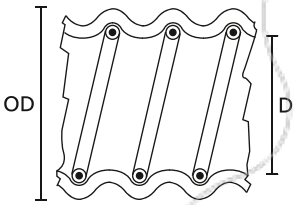
Features and benefits

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

FlexiGuard FG with FG-UH fitting.

MATERIAL	Flexible Polyvinyl Chloride, cadmium free (PVC), Steel (ST)
Operating Temperature	-20 °C to +70 °C, (+80 °C, 200 h)
Flammability	UL94 HB

RoHS



FlexiGuard

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

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

Date of issue: 10/2017

Fittings for FlexiGuard spiral-reinforced PVC Conduits

FG straight fitting with swivel thread, IP54

Straight swivel external thread.

Fulfils IP54 with FlexiGuard FG conduits.

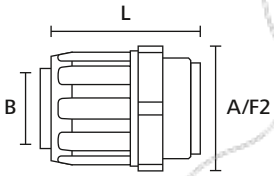
Features and benefits

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

FG conduit fitting.

MATERIAL	Polypropylene (PP)
Operating Temperature	-35 °C to +80 °C
Flammability	UL94 V2

HF ✓ RoHS ✓



FlexiGuard fitting, straight with swivel thread

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

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

Date of issue: 10/2017

Fittings for FlexiGuard spiral-reinforced PVC Conduits

FG-UH straight fitting with mounting bracket, IP54

Straight swivel bracket.

Fulfils IP54 with FlexiGuard FG conduits.

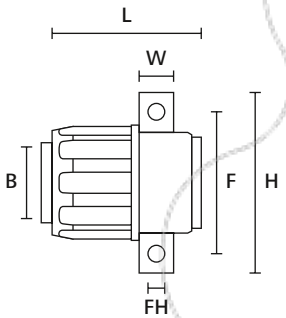
Features and benefits

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

FG-UH fitting with bracket.

MATERIAL	Polypropylene (PP)
Operating Temperature	-35 °C to +80 °C
Flammability	UL94 V2

HF ✓ RoHS ✓



FlexiGuard fitting, straight with bracket

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.

Date of issue: 10/2017

HellermannTyton
www.HellermannTyton.com

HelaGuard Flexible Conduits and Fittings

For more information on our complete HelaGuard range of non-metallic and metallic conduits and fittings, please see our new HelaGuard catalogue.

Order your HelaGuard catalogue today!

Date of issue: 10/2017

HelaGuard accessories

PACC Clip for corrugated conduits

Features and benefits

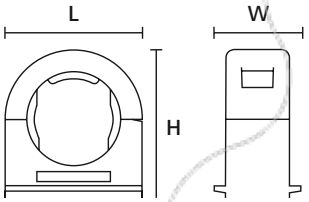
- Easy and quick assembly with non-metallic conduits
- Lid is integrated
- Hole for fastening with screw
- Inner rib prevents conduit from slipping
- Can be used in C-shaped DIN rails

HelaGuard PACC Conduit Clip.

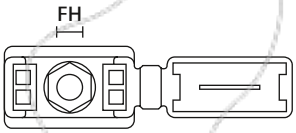
One Step to the Web!

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2

HF ✓ RoHS ✓



HelaGuard conduit clip, side views



HelaGuard conduit clip, top view

TYPE	Nominal Ø	Height (H)	Width (W)	Length (L)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
PACC10	10	26	12	23	M5	10 pcs.	Black (BK)	166-25707
PACC13	13	26	12	23	M5	10 pcs.	Black (BK)	166-25700
PACC16	16	30	12	26	M5	10 pcs.	Black (BK)	166-25701
PACC21	21	36	15	32	M6	10 pcs.	Black (BK)	166-25702
PACC28	28	45	15	41	M6	10 pcs.	Black (BK)	166-25703
PACC34	34	51	15	48	M6	10 pcs.	Black (BK)	166-25704
PACC42	42	60	15	57	M6	5 pcs.	Black (BK)	166-25705
PACC54	54	72	15	70	M6	5 pcs.	Black (BK)	166-25706

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

Date of issue: 10/2017

HelaGuard accessories

AFCS Fixing clip, plated steel and PVC liner

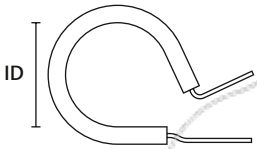
Features and benefits

- Simple, secure fixing of metallic conduits
- Liner prevents damage due to abrasion

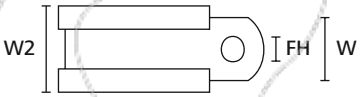
HelaGuard AFCS Fixing Clip, Stainless Steel and PVC Liner.

MATERIAL	Galvanised Steel (GS), Polyvinylchloride (PVC)
Operating Temperature	-20 °C to +105 °C

RoHS



HelaGuard fixing clip, side view



HelaGuard fixing clip, top view

TYPE	Nominal Ø	Inside Ø (ID)	Width (W)	Width (W2)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
AFCS10	10	11.0	12.7	17.4	5.1	10 pcs.	Metal (ML), Black (BK)	166-50600
AFCS12	12	14.0	12.7	17.4	5.1	10 pcs.	Metal (ML), Black (BK)	166-50601
AFCS16	16	17.0	12.7	17.4	5.1	10 pcs.	Metal (ML), Black (BK)	166-50602
AFCS20	20	21.0	12.7	17.4	5.1	10 pcs.	Metal (ML), Black (BK)	166-50603
AFCS25	25	25.0	12.7	17.4	5.1	10 pcs.	Metal (ML), Black (BK)	166-50604
AFCS32	32	34.0	12.7	17.4	5.1	10 pcs.	Metal (ML), Black (BK)	166-50605
AFCS40	40	44.0	25.4	30.5	14.2 x 17.5	5 pcs.	Metal (ML), Black (BK)	166-50606
AFCS50	50	54.0	25.4	30.5	14.2 x 17.5	5 pcs.	Metal (ML), Black (BK)	166-50607
AFCS63	63	70.0	25.4	30.5	14.2 x 17.5	1 pc.	Metal (ML), Black (BK)	166-50608
AFCS75	75	76.2	25.4	30.5	14.2 x 17.5	1 pc.	Metal (ML), Black (BK)	166-50609

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

CAD

CAD download

Date of issue: 10/2017

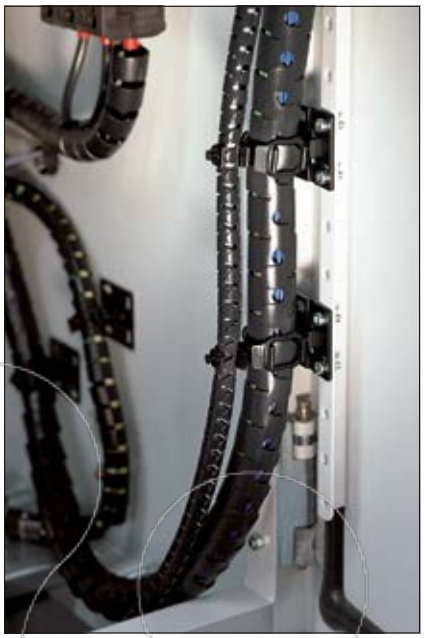
Helawrap Cable Cover

HWPP for industrial applications

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

Features and benefits

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



HWPP is commonly used wherever high flexibility is required, such as in the door area of wiring panels.

Application video: Helawrap

MATERIAL	Polypropylene (PP)
Operating Temperature	-60 °C to +110 °C, intermittent +140 °C
Flammability	UL94 HB

HF ✓ RoHS ✓

TYPE	Bundle Ø max.	Colour	Reel Length	Application Tool	Article-No.
HWPP8	9	Black (BK)	25 m	HAT8	161-64101
	9	Grey (GY)	25 m	HAT8	161-64102
	9	Silver (SR)	25 m	HAT8	161-64103
	9	White (WH)	25 m	HAT8	161-64104
HWPP16	16	Black (BK)	25 m	HAT16	161-64201
	16	Grey (GY)	25 m	HAT16	161-64202
	16	Silver (SR)	25 m	HAT16	161-64203
	16	White (WH)	25 m	HAT16	161-64207
HWPP20	21	Black (BK)	25 m	HAT20	161-64301
	21	Grey (GY)	25 m	HAT20	161-64302
	21	Silver (SR)	25 m	HAT20	161-64303
	21	White (WH)	25 m	HAT20	161-64304
HWPP25	27	Black (BK)	25 m	HAT25	161-64401
	27	Grey (GY)	25 m	HAT25	161-64402
	27	Silver (SR)	25 m	HAT25	161-64403
	27	White (WH)	25 m	HAT25	161-64407
HWPP30	32	Black (BK)	25 m	HAT30	161-64501
	32	Grey (GY)	25 m	HAT30	161-64502
	32	Silver (SR)	25 m	HAT30	161-64503
	32	White (WH)	25 m	HAT30	161-64504
HWPP40	42	Black (BK)	20 m	HAT40	161-64601

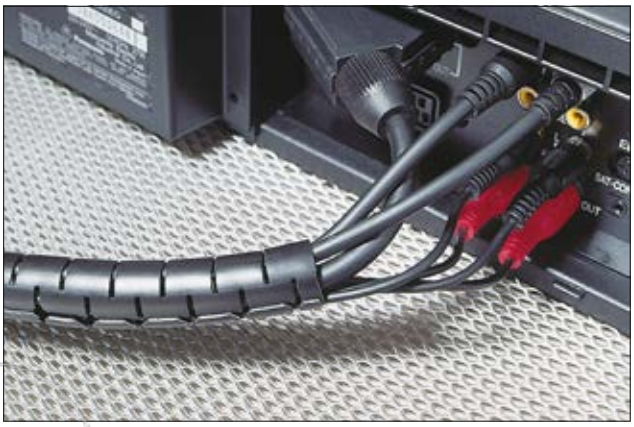
All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Date of issue: 10/2017

Helawrap Cable Cover

HWPP for home and office use

Helawrap HWPP in practical 2 metre lengths is designed for home and office use. It puts an end to the cable chaos of PCs, TVs and Hi-Fi systems.



Complete cable management for home and office.

To order additional HAT application tools, see page 327.

Helawrap HWPP, in practical 2m lengths, is available in 2 sizes and 4 colours.

Insert one or more cables into the insertion slot of the HAT applicator tool.

Place the HAT applicator tool in one end of the Helawrap cable cover.

Simply slide the HAT applicator tool through the Helawrap cover.

TYPE	Bundle Ø max.	Colour	Length (L)	Application Tool	Article-No.
HWPP16L2	16	Black (BK)	2 m	HAT16	161-64204
	16	Grey (GY)	2 m	HAT16	161-64205
	16	Silver (SR)	2 m	HAT16	161-64206
	16	White (WH)	2 m	HAT16	161-64215
HWPP25L2	27	Black (BK)	2 m	HAT25	161-64404
	27	Grey (GY)	2 m	HAT25	161-64405
	27	Silver (SR)	2 m	HAT25	161-64406
	27	White (WH)	2 m	HAT25	161-64415

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

Date of issue: 10/2017

Helawrap Cable Cover

HWPAV0 flame-retardant and abrasion-resistant

Helawrap HWPAV0 is used to bundle and protect cable and wires, especially there is vibration and abrasion. HWPAV0 has excellent flame-retardant properties and is halogen-free.

Features and benefits

- Ideal solution for bundling, protecting and fixing cables
- Quick and effortless to apply
- Self-extinguishing according to UL94 V0
- Very good abrasion protection
- Special profile enables branching off cable at any point
- Can be removed and reapplied often
- Handy applicator tool included

Cables can be branched off at any point for better, more flexible protection.

To order additional HAT application tools, see page 327.

MATERIAL	Polyamide 6 V0 (PA6V0)
Operating Temperature	-40 °C to +90 °C, intermittent +120 °C
Flammability	UL94 V0

HF ✓ RoHS ✓

TYPE	Bundle Ø max.	Colour	Reel Length	Application Tool	Article-No.
HWPAV08	9	Black (BK)	25 m	HAT8	161-63101
HWPAV016	16	Black (BK)	25 m	HAT16	161-63201
HWPAV020	21	Black (BK)	25 m	HAT20	161-63301
HWPAV025	27	Black (BK)	25 m	HAT25	161-63401
HWPAV030	32	Black (BK)	25 m	HAT30	161-63501

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

EN 45545-2

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

Date of issue: 10/2017

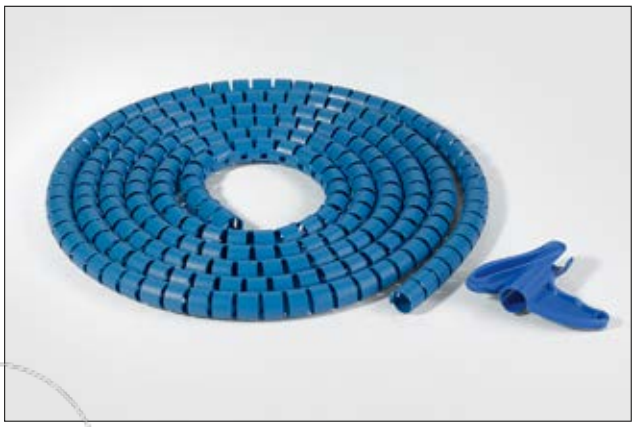
Metal-Content Cable Cover

Helawrap HWPPMC

HWPPMC is particularly suitable for installation and maintenance for food-processing machines and in food-processing plants.

Features and benefits

- High metal-content for reliable detection with standard detection equipment
- Quick and effortless to apply
- Stainless steel preserves resistance to corrosion
- Blue colour for enhanced visibility
- Ideal solution for bundling and protecting cables and hoses
- Highly flexible
- Very good abrasion protection
- Special profile enables branching off cable at any point
- Can be removed and reused
- Handy applicator tool included



HWPPMC metal-content cable cover.

MATERIAL	Polypropylene (PP), Stainless Steel (SS)
Operating Temperature	-60 °C to +100 °C, intermittent +140 °C
Flammability	UL94 HB

HF ✓ RoHS ✓

Can support quality assurance in the production of food stuffs, for example HACCP.

To order additional HAT application tools, see page 327.

One Step to the Web!

TYPE	Bundle Ø max.	Colour	Reel Length	Application Tool	Article-No.
HWPPMC8	9	Blue (BU)	25 m	HAT8	161-66000
HWPPMC16	16	Blue (BU)	25 m	HAT16	161-66100
HWPPMC20	21	Blue (BU)	25 m	HAT20	161-66200
HWPPMC25	27	Blue (BU)	25 m	HAT25	161-66300
HWPPMC30	32	Blue (BU)	25 m	HAT30	161-66400

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

Date of issue: 10/2017

Accessories for Helawrap Cable Cover

HWClips

Helawrap clips and mounting plates can be linked to mount and route Helawrap cable covers in wiring cabinets and machines as well as in the iin the office or home.

Features and benefits

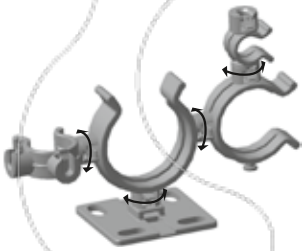
- Mounts and routes Helawrap cable cover flexibly and efficiently
- Fit snugly around the cable cover and holds it tight
- Each clip can be joined to mounting plate or other clips of any size
- Each clip rotates freely
- Easily released and re-used

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

MATERIAL	Polyamide 6.6, high impact modified, heat stabilised (PA66HIRHS)	Flexible Polyvinyl Chloride, cadmium free (PVC)
Operating Temperature	-40 °C to +105 °C	-35 °C to +85 °C
Flammability	UL94 HB	UL94 V2

HF ✓ RoHS ✓

RoHS ✓



Multiple clips can be joined. Clips swivel freely.

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

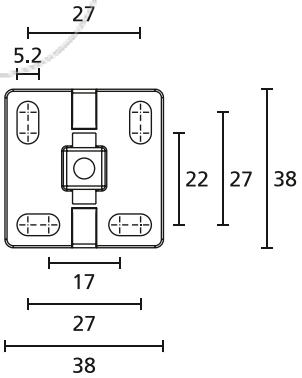
TYPE	for Helawrap size	Material	Colour	Article-No.
HWCLIP08	8	PA66HIRHS	Black (BK)	161-64002
HWCLIP16	16	PA66HIRHS	Black (BK)	161-64004
HWCLIP20	20	PA66HIRHS	Black (BK)	161-64006
HWCLIP25	25	PA66HIRHS	Black (BK)	161-64008
HWCLIP30	30	PA66HIRHS	Black (BK)	161-64010
R1	25, 30	PVC	Black (BK)	201-20010

Subject to technical changes.

HWBase

Features and benefits

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



Helawrap HWBase/HWBaseA

TYPE	Adhesive	Colour	Article-No.
HWBASE	-	Black (BK)	161-64014
HWBASEA	Acrylate with base of polyurethane foam	Black (BK)	161-64012

All dimensions in mm. Subject to technical changes.

Date of issue: 10/2017

Application Tools for Helawrap Cable Cover

HAT Tools

The HAT application tools are used with Helawrap HWPP, HWPAV0 and HWPPMC cable covers to bundle and protect cables rapidly and efficiently. There is a specially designed HAT application tool for each size Helawarp cable cover.

Features and benefits

- Bundles cable rapidly and effortlessly
- Glides smoothly and securely through cover
- Easy insertion of cable

Applicator tools are available for every Helawrap cover size.

TYPE	Colour	Pack Cont.	Article-No.
HAT8	Blue (BU)	10 pcs.	161-60001
HAT16	Blue (BU)	10 pcs.	161-60002
HAT20	Blue (BU)	10 pcs.	161-60003
HAT25	Blue (BU)	10 pcs.	161-60004
HAT30	Blue (BU)	10 pcs.	161-60005
HAT40	Blue (BU)	5 pcs.	161-60006

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

Date of issue: 10/2017

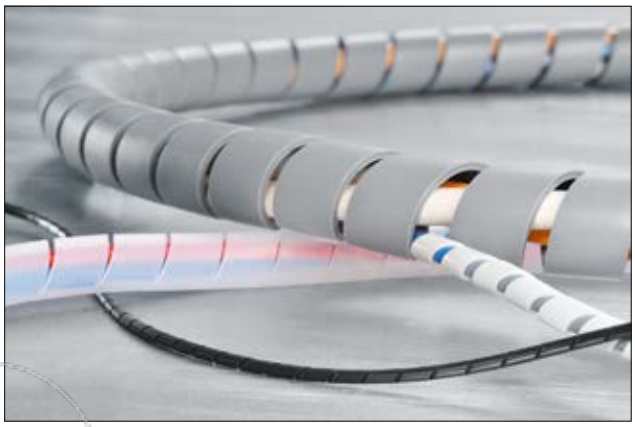
Polyethylene spiral binding

SBPE

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

Features and benefits

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

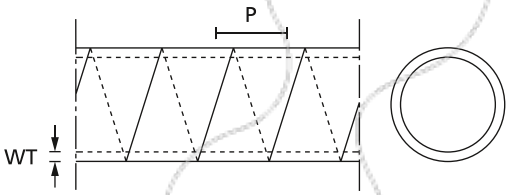


Spiral binding SBPE.

One Step to the Web!

MATERIAL	Polyethylene (PE)
Operating Temperature	-60 °C to +80 °C, intermittent +120 °C
Flammability	UL94 HB

HF ✓ RoHS ✓



Spiral binding

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

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

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

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

Date of issue: 10/2017

Flame-retardant polyethylene spiral binding

SBPEFR

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

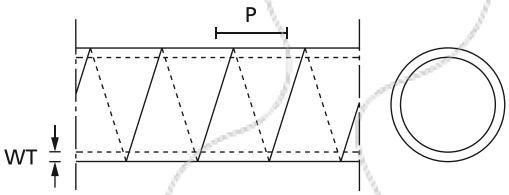
Features and benefits

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

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

MATERIAL	Polyethylene, flame retardant (PE-FR)
Operating Temperature	-60 °C to +80 °C, intermittent +120 °C
Flammability	UL94 V2, FMVSS 302, Type B

RoHS



Spiral binding

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.

Date of issue: 10/2017

Polyamide spiral binding

SBPA

SBPA spiral binding is used for cable harnesses in the automobile industry and for many demanding industrial applications.

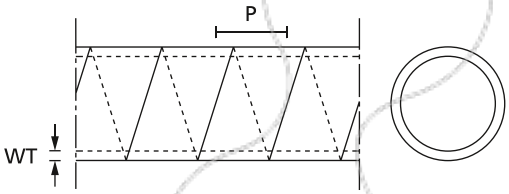
Features and benefits

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

SBPA spiral binding made of polyamide offers excellent protection against abrasion.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-60 °C to +95 °C, intermittent +130 °C
Flammability	UL94 HB

HF ✓ RoHS ✓



Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPA1.5	1.5	0.4	6.0	1.6	8	Natural (NA)	30 m	161-42000
SBPA4	4	0.6	7.8	5	20	Natural (NA)	30 m	161-42100
SBPA9	9	1.0	12.5	10	100	Natural (NA)	30 m	161-42200
SBPA16	16	1.2	16.0	20	150	Natural (NA)	30 m	161-42300

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

Date of issue: 10/2017

Flame-retardant polyamide spiral binding

SBPAV0

Due to its excellent flame protection properties, SBPAV0 spiral binding is particularly suitable for the rail and aviation industries as well as public buildings.

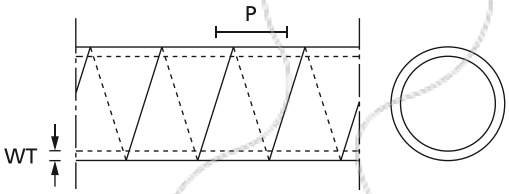
Features and benefits

- Organises and protects cables and hoses
- Self-extinguishing according to UL94 V0
- Very good protection against abrasion
- Suitable for retro-fitting
- Cables branch out at any point
- Wide range of diameters

Spiral binding SBPAV0.

MATERIAL	Polyamide 6 V0 (PA6V0)
Operating Temperature	-40 °C to +90 °C, intermittent +120 °C
Flammability	UL94 V0

HF ✓ RoHS ✓



Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPAV01.5	1.5	0.4	6.0	1.6	8	Black (BK)	30 m	161-44000
SBPAV04	4	0.6	7.8	5	20	Black (BK)	30 m	161-44100
SBPAV09	9	1.0	12.5	10	100	Black (BK)	30 m	161-44200
SBPAV016	16	1.2	16.0	20	150	Black (BK)	30 m	161-44300

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

EN 45545-2

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

Date of issue: 10/2017

PTFE spiral binding

SBPTFE

SBPTFE is recommended wherever superior protection against chemical and extreme temperatures are important.

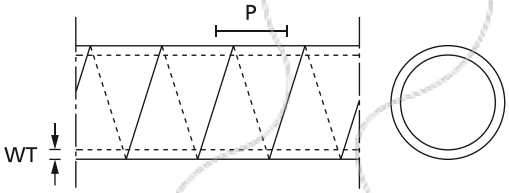
Features and benefits

- Organises and protects cables and hoses
- Excellent fire protection
- Self-extinguishing according to UL94 V0
- Suitable for retro-fitting
- Cables branch out at any point
- Wide range of diameters and colours

Spiral binding SBTFE is ideal for extreme conditions.

MATERIAL	Polytetrafluoroethylene (PTFE)
Operating Temperature	-60 °C to +260 °C, intermittent +350 °C
Flammability	UL94 V0

RoHS



Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPTFE1.5	1.5	0.5	6.0	1.6	8	Natural (NA)	5 m	161-45000
SBPTFE4	4	0.7	7.8	5	20	Natural (NA)	5 m	161-45100
SBPTFE9	9	1.0	12.5	10	100	Natural (NA)	5 m	161-45200

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

Date of issue: 10/2017

Metal-Content Spiral Binding

SBPEMC

SBPEMC is designed for applications in food-processing plants and machines.

Features and benefits

- High metal-content for reliable detection with standard detection equipment
- Stainless steel preserves resistance to corrosion
- Blue colour for enhanced visibility
- Ideal solution for bundling and protecting cables and hoses
- Highly flexible
- Suitable for retro-fitting
- Branching off cable at any point

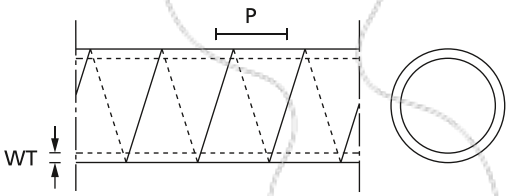
Detectable, metal-content spiral binding protects cables on food-processing machines.

MATERIAL	Polyethylene (PE), Stainless Steel (SS)
Operating Temperature	-60 °C to +80 °C, intermittent +120 °C
Flammability	UL94 HB

HF ✓ RoHS ✓

One Step to the Web!

Can support quality assurance in the production of food stuffs, for example HACCP.



Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPEMC1.5	1.5	0.8	6.0	1.6	8	Blue (BU)	30 m	161-46000
SBPEMC4	4	1.0	7.8	5	20	Blue (BU)	30 m	161-46100
SBPEMC9	9	1.4	12.5	10	100	Blue (BU)	30 m	161-46200
SBPEMC16	16	1.6	16.0	20	150	Blue (BU)	30 m	161-46300

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

Date of issue: 10/2017

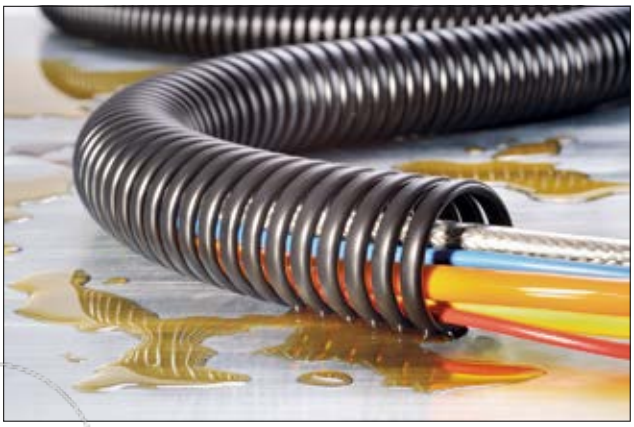
High abrasion-resistant polypropylene spiral binding, narrow pitch

SPS

SPS spiral binding is especially suitable wherever high abrasion resistance and much larger cable diameters are needed, for example in the petrochemical industry and in plant construction.

Features and benefits

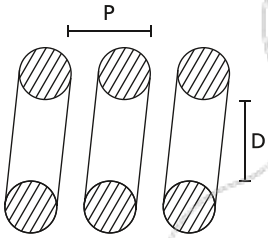
- Heavy-walled and very robust
- Excellent protection from mechanical stress
- Very high abrasion resistance
- Very good resistance to oils
- Available in diameters up to 50 mm
- Ideal for larger cable bundles



Spiral binding SPS is very robust and provides good protection against oil.

MATERIAL	Polypropylene (PP)
Operating Temperature	-30 °C to +100 °C
Flammability	UL94 HB

HF ✓ RoHS ✓



SPS spiral binding (narrow pitch)

TYPE	Ø (D)	Pitch (P)	Bundle Ø max.	Length (L)	Colour	Article-No.
SPS10	10.0	5.0	14	1.0 m	Black (BK)	162-10100
SPS15	15.0	5.0	20	1.0 m	Black (BK)	162-10150
SPS20	20.0	5.5	25	1.0 m	Black (BK)	162-10200
SPS25	25.0	6.0	30	1.0 m	Black (BK)	162-10250
SPS30	30.0	6.5	37	1.0 m	Black (BK)	162-10300
SPS35	35.0	6.5	42	1.0 m	Black (BK)	162-10350
SPS40	40.0	7.0	48	1.0 m	Black (BK)	162-10400
SPS50	50.0	8.0	59	1.0 m	Black (BK)	162-10500

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

Date of issue: 10/2017

High abrasion-resistant polypropylene spiral binding, wide pitch

SPF

SPF spiral binding is especially suitable wherever high abrasion resistance and much larger cable diameters are needed, for example in the petrochemical industry and in plant construction.

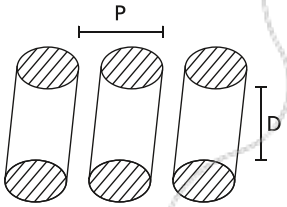
Features and benefits

- Heavy-walled and very robust
- Excellent protection from mechanical stress
- Very high abrasion resistance
- Very good resistance to oils
- Available in diameters up to 50 mm
- Ideal for larger cable bundles

SPF spiral binding is extremely robust and abrasion resistant.

MATERIAL	Polypropylene (PP)
Operating Temperature	-30 °C to +100 °C
Flammability	UL94 HB

HF ✓ RoHS ✓



SPF spiral binding (wide pitch)

TYPE	Ø (D)	Pitch (P)	Bundle Ø max.	Length (L)	Colour	Article-No.
SPF10	10.0	10	13	1.0 m	Black (BK)	162-20100
SPF15	15.0	13	18	1.0 m	Black (BK)	162-20150
SPF20	20.0	18	23	1.0 m	Black (BK)	162-20200
SPF25	25.0	19	29	1.0 m	Black (BK)	162-20250
SPF30	30.0	20	34	1.0 m	Black (BK)	162-20300
SPF35	35.0	20	39	1.0 m	Black (BK)	162-20350
SPF40	40.0	20	45	1.0 m	Black (BK)	162-20400
SPF50	50.0	22	56	1.0 m	Black (BK)	162-20500

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

Date of issue: 10/2017

Standard polyester braided sleeving

Helagaine HEGP

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

Features and benefits

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

Helagaine HEGP braided sleeving.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C, intermittent +220 °C
Melting Point	+250 °C
Flammability	UL94 V2, FMVSS 302

HF ✓ RoHS ✓

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

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

Recommended Tools	
	45 HSG0
	572

For more information on toolings please refer to the Application Tooling chapter.

EN 45545-2

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

Date of issue: 10/2017

High-expansion polyester braided sleeving

Helagaine HEGPX

Helagaine HEGPX is used whenever a higher expansion rate is required. HEGPX is particularly suitable for use in the automotive industry and in electrical appliances.

Features and benefits

- Made of sturdy polyester
- Highly flexible
- Expands to 3x nominal diameter
- Easy to apply over irregular shapes
- Good abrasion resistance

Helagaine HEGPX braided sleeving.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C, intermittent +220 °C
Melting Point	+250 °C
Flammability	UL94 V2, FMVSS 302

HF ✓ RoHS ✓

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGPX06	3	10	Black (BK)	200 m	45	170-00060
HEGPX09	5	16	Black (BK)	100 m	45	170-00090
HEGPX12	6	19	Black (BK)	100 m	45	170-00120
HEGPX20	13	32	Black (BK)	100 m	45	170-00200
HEGPX30	19	45	Black (BK)	50 m	45	170-00300
HEGPX40	32	70	Black (BK)	50 m	45	170-00400

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

Recommended Tools	
	45 HSG0
	572

For more information on toolings please refer to the Application Tooling chapter.

EN 45545-2

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

Date of issue: 10/2017

Flame-retardand polyester braided sleeving

Helagaine HEGPV0

HEGPV0 braided sleeving is used wherever fire protection is important such as in railway vehicles, machine tools, robotics and automatic equipment.

Features and benefits

- Made of sturdy polyester
- Self-extinguishing according to UL94 V0 for enhanced fire protection
- Highly flexible
- High abrasion resistance
- High surface coverage

Helagaine HEGPV0 braided sleeving.

MATERIAL	Polyester (PBT)
Operating Temperature	-50 °C to +150 °C, intermittent +200 °C
Melting Point	+225 °C
Flammability	UL94 V0, FMVSS 302

RoHS

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGPV004	3	7	Black with White Identification Yarn (BKIDWH)	100 m	45	170-30400
HEGPV006	5	11	Black with White Identification Yarn (BKIDWH)	100 m	45	170-30600
HEGPV008	7	13	Black with White Identification Yarn (BKIDWH)	100 m	45	170-30800
HEGPV012	11	17	Black with White Identification Yarn (BKIDWH)	50 m	45	170-31200
HEGPV015	13	20	Black with White Identification Yarn (BKIDWH)	50 m	45	170-31500
HEGPV020	18	25	Black with White Identification Yarn (BKIDWH)	50 m	45	170-32000
HEGPV030	27	40	Black with White Identification Yarn (BKIDWH)	50 m	45	170-33000
HEGPV040	35	50	Black with White Identification Yarn (BKIDWH)	50 m	45	170-34000
HEGPV050	40	60	Black with White Identification Yarn (BKIDWH)	50 m	45	170-35000

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

Recommended Tools	
	45 HSG0
	572

For more information on toolings please refer to the Application Tooling chapter.

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

Date of issue: 10/2017

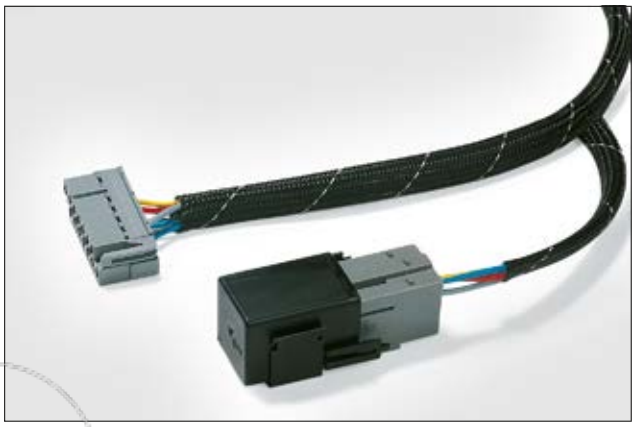
Flame-retardant, high-expansion polyester braided sleeving

Helagaine HEGPV0X

Helagaine HEGPV0X braided sleeving is especially suitable wherever fire protection is important, such as in railway vehicles.

Features and benefits

- Made of sturdy polyester
- Self-extinguishing according to UL94 V0 for enhanced fire protection
- Highly flexible
- Expands to 3x nominal diameter
- Easy to apply over irregular shapes
- Good abrasion resistance



Helagaine HEGPV0X flame-retardant braided sleeving.

MATERIAL	Polyester (PBT)
Operating Temperature	-50 °C to +150 °C, intermittent +200 °C
Melting Point	+225 °C
Flammability	UL94 V0, FMVSS 302

RoHS

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGPV0X03	2	6	Black with White Identification Yarn (BKIDWH)	200 m	45	170-50030
HEGPV0X06	3	10	Black with White Identification Yarn (BKIDWH)	200 m	45	170-50060
HEGPV0X09	5	16	Black with White Identification Yarn (BKIDWH)	100 m	45	170-50090
HEGPV0X12	6	19	Black with White Identification Yarn (BKIDWH)	100 m	45	170-50120
HEGPV0X20	12	32	Black with White Identification Yarn (BKIDWH)	100 m	45	170-50200
HEGPV0X30	19	45	Black with White Identification Yarn (BKIDWH)	50 m	45	170-50300
HEGPV0X40	32	70	Black with White Identification Yarn (BKIDWH)	50 m	45	170-50400
HEGPV0X50	38	76	Black with White Identification Yarn (BKIDWH)	50 m	45	170-50500

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

Recommended Tools	
	45 HSG0
	572

For more information on toolings please refer to the Application Tooling chapter.

NF F

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

Date of issue: 10/2017

Abrasion-resistant polyamide braided sleeving

Helagaine HEGPA66

Helagaine HEGPA66 is particularly suitable for vehicle manufacturing as well as plant construction.

Features and benefits

- Made from heavy-duty polyamide yarn
- Excellent abrasion resistance
- Highly flexible
- Easy to apply over irregular shapes
- Eases application by expanding when compressed
- Very high surface covering

Helagaine HEGPA66 braided sleeving.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-60 °C to +150 °C, intermittent +200 °C
Melting Point	+255 °C
Flammability	UL94 V2, FMVSS 302

HF ✓ RoHS ✓

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGPA6604	3	6	Black (BK)	200 m	45	170-40400
HEGPA6606	4	8	Black (BK)	100 m	45	170-40600
HEGPA6608	5	10	Black (BK)	100 m	45	170-40800
HEGPA6610	7	12	Black (BK)	100 m	45	170-41000
HEGPA6612	8	14	Black (BK)	100 m	45	170-41200
HEGPA6616	12	18	Black (BK)	50 m	45	170-41600
HEGPA6620	15	23	Black (BK)	50 m	45	170-42000
HEGPA6625	18	28	Black (BK)	50 m	45	170-42500
HEGPA6630	25	32	Black (BK)	50 m	45	170-43000
HEGPA6640	30	44	Black (BK)	50 m	45	170-44000
HEGPA6650	40	55	Black (BK)	50 m	45	170-45000
HEGPA6660	50	65	Black (BK)	50 m	45	170-46000

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

Recommended Tools	
	45 HSG0
	572

For more information on toolings please refer to the Application Tooling chapter.

EN 45545-2

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

Date of issue: 10/2017

Light-weight polyester braided sleeving

Helagaine HEGPL

Helagaine HEGPL is used primarily in the automobile interior, motor compartment, car body and chassis.

Features and benefits

- Made of sturdy polyester
- Expands to 3x nominal diameter
- Easier application over irregular shapes
- Highly flexible
- Good abrasion resistance

Helagaine HEGPL braided sleeving.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C, intermittent +220 °C
Melting Point	+250 °C
Flammability	UL94 V2, FMVSS 302, Type B

HF ✓ RoHS ✓

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGPL03	3	8	Black (BK)	1,000 m	45	170-80503
HEGPL06	5	12	Black (BK)	400 m	45	170-80506
HEGPL12	8	21	Black (BK)	300 m	45	170-80512
HEGPL20	12	30	Black (BK)	300 m	45	170-80520
HEGPL30	18	55	Black (BK)	200 m	45	170-80530
HEGPL40	24	66	Black (BK)	150 m	45	170-80540
HEGPL50	30	82	Black (BK)	150 m	45	170-80550

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

Recommended Tools	
	45 HSG0
	572

For more information on toolings please refer to the Application Tooling chapter.

Date of issue: 10/2017

Standard braided sleeving in dispenser boxes

Helagaine HLB

Because Helagaine HLB is supplied in practical dispenser boxes and covers a wide range of applications with only a few sizes, it is ideal for both the professional and the home user. Helagaine HLB bundles and effectively protects cables and wires, for instance in HiFi systems.

Features and benefits

- In practical, space-saving 10 m dispenser boxes
- Expands to 3x nominal diameter
- Bundling diameters from 5 mm to 54 mm
- Three sizes for very wide range of applications
- Extraction of sleeves

Only three sizes of Helagaine HLB cover almost all application diameters and are available in practical dispenser boxes.

One Step to the Web!

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C, intermittent +220 °C
Melting Point	+250 °C
Flammability	UL94 V2

HF ✓ RoHS ✓

TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HLB15	15	5	21	Black (BK)	10 m	45	170-80150
HLB25	25	10	30	Black (BK)	10 m	45	170-80250
HLB35	35	18	54	Black (BK)	10 m	45	170-80350

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

Recommended Tools	
	45 HSG0
	572

For more information on toolings please refer to the Application Tooling chapter.

Date of issue: 10/2017

Noise-protection polyester braided sleeving

Helagaine HEGSAS

Helagaine HEGSAS braided sleeving is used primarily in the automotive sector, where vibration noise must be reduced.

Features and benefits

- Superior noise reduction
- Made of sturdy polyester
- Highly flexible
- Easy to apply over irregular shapes due
- High surface coverage
- Excellent abrasion resistance

Helagaine HEGSAS braided sleeving.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C, intermittent +200 °C
Melting Point	+250 °C
Flammability	FMVSS 302

HF ✓ RoHS ✓

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGSAS04	2	8	Black (BK)	200 m	45	170-60401
HEGSAS06	4	11	Black (BK)	200 m	45	170-60600
HEGSAS09	6	16	Black (BK)	100 m	45	170-60900
HEGSAS12	8	20	Black (BK)	100 m	45	170-61200
HEGSAS15	10	24	Black (BK)	50 m	45	170-61500
HEGSAS20	13	30	Black (BK)	50 m	45	170-62000
HEGSAS30	20	40	Black (BK)	25 m	45	170-63000
HEGSAS40	30	50	Black (BK)	25 m	45	170-64000

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

Recommended Tools	
	45 HSG0
	572

For more information on toolings please refer to the Application Tooling chapter.

Date of issue: 10/2017

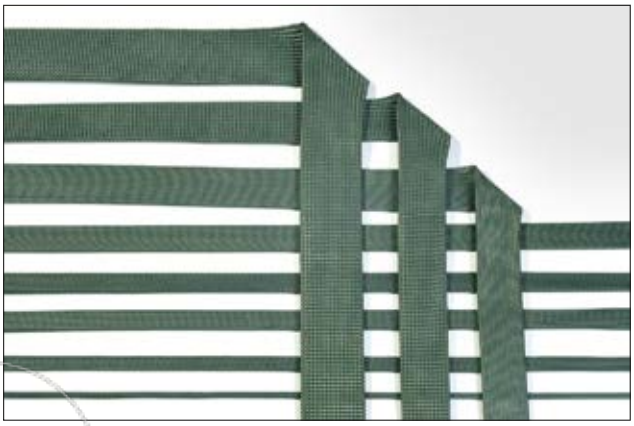
Meta-aramid braided sleeving

Helagaine HEGMAN

Helagaine HEGMAN provides excellent mechanical protection for applications involving high temperatures and fire-protection, particularly in the aerospace, military, railway and ship-building industries.

Features and benefits

- Made of non-flammable meta-aramid
- Extremely flexible
- High expansion for easy installation over long lengths
- Optimal mechanical protection for harnesses
- Able to withstand the most severe environments
- Superior protection against abrasion, flames and high temperatures
- Highly resistant to radiation and fluids



The non-flammable Helagaine HEGMAN and HEGMANWO are available in many different sizes.

MATERIAL	Polyaramid Polymetaphenylene Isophthalamide (NOMEX)
Operating Temperature	+240 °C
Melting Point	Does not melt / Carbonisation above +370 °C
Flammability	UL94 V0 (Raw material), UL224 VW-1

One Step to the Web!

RoHS

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HEGMAN-02	1	2	Green (GN)	100 m	170-02100
HEGMAN-04	2	4	Green (GN)	100 m	170-02101
HEGMAN-06	4	8	Green (GN)	100 m	170-02102
HEGMAN-08	6	12	Green (GN)	50 m	170-02103
HEGMAN-10	8	16	Green (GN)	50 m	170-02104
HEGMAN-15	10	20	Green (GN)	50 m	170-02105
HEGMAN-20	12	24	Green (GN)	50 m	170-02106
HEGMAN-25	15	30	Green (GN)	50 m	170-02107
HEGMAN-30	20	40	Green (GN)	50 m	170-02108

All dimensions in mm. Subject to technical changes.
Cuts in any lengths. NOMEX® is a registered trademark of DuPont. Minimum Order Quantity (MOQ) may differ from package content.

Date of issue: 10/2017

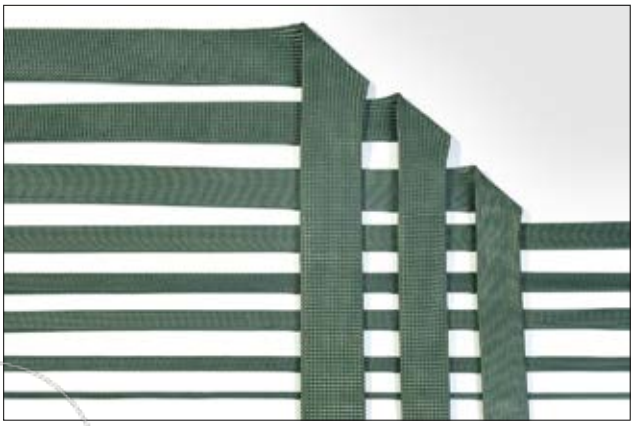
Water and oil repellent meta-aramid braided sleeving

Helagaine HEGMANWO

Helagaine HEGMANWO is especially resistant to water and oil and is designed for applications requiring mechanical protection at high temperatures, particularly in the aerospace, military, railway and ship-building industries.

Features and benefits

- Made of non-flammable meta-aramid
- Water and oil-repellent
- Extremely flexible
- High expansion for easy installation over long lengths
- Optimal mechanical protection for harnesses
- Able to withstand the most severe environments
- Superior protection against abrasion, flames and high temperatures
- Highly resistant to radiation and fluids



The non-flammable Helagaine HEGMAN and HEGMANWO are available in many different sizes.

MATERIAL	Polyaramid Polymetaphenylene Isophthalamide (NOMEX)
Operating Temperature	-60 °C to +240 °C
Melting Point	Does not melt / Carbonisation above +370 °C
Flammability	UL94 V0 (Raw material), UL224 VW-1

RoHS

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HEGMANWO-02	1	2	Green (GN)	100 m	170-02000
HEGMANWO-04	2	4	Green (GN)	100 m	170-02001
HEGMANWO-06	4	8	Green (GN)	100 m	170-02002
HEGMANWO-08	6	12	Green (GN)	50 m	170-02003
HEGMANWO-10	8	16	Green (GN)	50 m	170-02004
HEGMANWO-15	10	20	Green (GN)	50 m	170-02005
HEGMANWO-20	12	24	Green (GN)	50 m	170-02006
HEGMANWO-25	15	30	Green (GN)	50 m	170-02007
HEGMANWO-30	20	40	Green (GN)	50 m	170-02008

All dimensions in mm. Subject to technical changes.
Cuts in any lengths. NOMEX® is a registered trademark of DuPont. Minimum Order Quantity (MOQ) may differ from package content.

Date of issue: 10/2017

Self-closing polyester sleeving

Helagaine Twist-In

Helagaine Twist-In is used to bundle and protect pre-terminated cables in machine-building and automation, electrical installations and automobile and truck manufacturing.

Helagaine Twist-In is also available in practical 2 m and 5 m lengths for use in the home or office.

Features and benefits

- Self-closing sleeve made of sturdy polyester
- Provides very good protection against abrasion
- Ideal for retro-fitting
- Quick and easy installation and removal
- Allows for inspection and maintenance

Helagaine Twist-In enables easy access to cables and wires for assembly, inspection and maintenance.

Application video: Twist-In

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +125 °C
Melting Point	+255 °C
Flammability	self-extinguishing, FMVSS 302

HF ✓ RoHS ✓

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
Twist-In 05	4	5	Black (BK)	150 m	45	170-01000
Twist-In 08	5	8	Black (BK)	100 m	45	170-01001
Twist-In 13	10	13	Black (BK)	50 m	45	170-01002
Twist-In 19	16	19	Black (BK)	25 m	45	170-01004
Twist-In 25	19	25	Black (BK)	25 m	45	170-01005
Twist-In 29	25	29	Black (BK)	15 m	45	170-01006
Twist-In 32	29	32	Black (BK)	15 m	45	170-01007
Twist-In 38	32	38	Black (BK)	15 m	45	170-01008
Twist-In 50	38	50	Black (BK)	15 m	45	170-01010

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

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
Twist-In 05	4	5	Black (BK)	5 m	45	170-01011
Twist-In 08	5	8	Black (BK)	5 m	45	170-01012
Twist-In 13	10	13	Black (BK)	5 m	45	170-01013
Twist-In 19	16	19	Black (BK)	2 m	45	170-01014
Twist-In 25	19	25	Black (BK)	2 m	45	170-01015
Twist-In 29	25	29	Black (BK)	2 m	45	170-01016
Twist-In 32	29	32	Black (BK)	2 m	45	170-01017
Twist-In 38	32	38	Black (BK)	2 m	45	170-01018

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

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

Date of issue: 10/2017

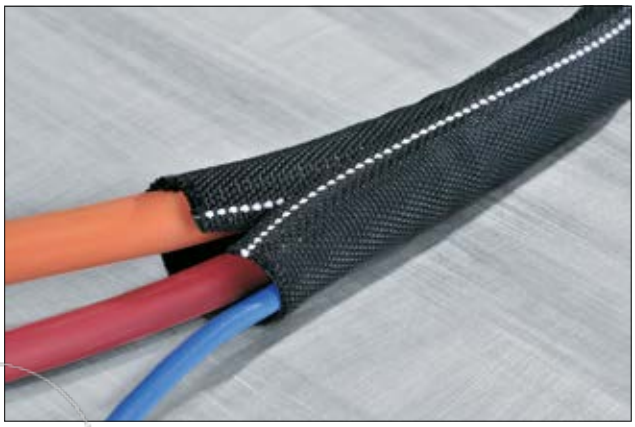
Self-closing, flame-retardent polyester sleeving

Helagaine Twist-In-FR

Helagaine Twist-In-FR is used wherever fire protection is essential, such as in the railway, aerospace and shipbuilding industries.

Features and benefits

- Self-closing sleeve made from polyester
- Optimal fire protection
- Easy and quick installation and removal
- Ideal for retro-fitting
- Allows access to bundle for assembly, inspection and maintenance



Helagaine Twist-In-FR is used wherever fire safety is important.

Application video: Twist-In

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +125 °C
Melting Point	+240 °C
Flammability	FMVSS 302, self-extinguishing

HF ✓ RoHS ✓

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
Twist-In-FR 05	4	5	Black with White Identification Yarn (BKIDWH)	150 m	45	170-01100
Twist-In-FR 08	5	8	Black with White Identification Yarn (BKIDWH)	100 m	45	170-01101
Twist-In-FR 13	10	13	Black with White Identification Yarn (BKIDWH)	50 m	45	170-01102
Twist-In-FR 19	16	19	Black with White Identification Yarn (BKIDWH)	25 m	45	170-01104
Twist-In-FR 25	19	25	Black with White Identification Yarn (BKIDWH)	25 m	45	170-01105
Twist-In-FR 29	25	29	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01106
Twist-In-FR 32	29	32	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01107
Twist-In-FR 38	32	38	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01108
Twist-In-FR 50	38	50	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01109

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

Recommended Tools	
	45 HSG0
	572

For more information on toolings please refer to the Application Tooling chapter.

EN 45545-2 NF F

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

Date of issue: 10/2017

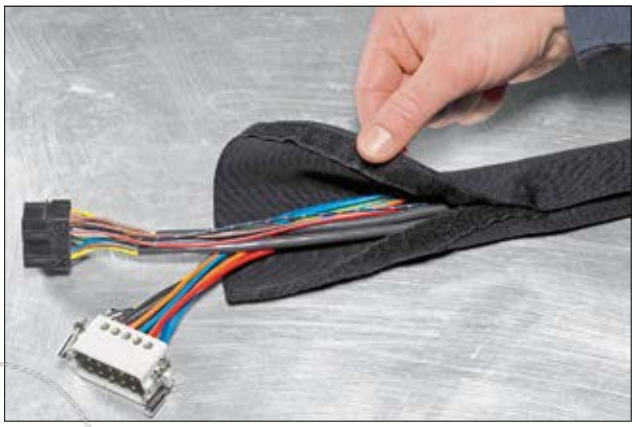
Re-closeable protective sleeving with hook-and-loop seal

HELAHOOK

HELAHOOK is used in automobiles and commercial vehicles as well as industrial machines and railway vehicles. HELAHOOK is especially practical where repeated use is required, for instance in event management.

Features and benefits

- Re-sealable cable protection made of polyester
- Very elastic, fits snugly around the cables
- Hook and loop sealing system can be used for retro-fitting
- High abrasion-resistance



HELAHOOK protective sleeving allows for retro-fitting and repeated use.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C
Flammability	UL94 V2, FMVSS 302

HF ✓ RoHS ✓

One Step to the Web!

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HELAHOOK10	3	15	Black (BK)	25 m	170-05100
HELAHOOK15	10	20	Black (BK)	25 m	170-05150
HELAHOOK20	15	30	Black (BK)	25 m	170-05200
HELAHOOK25	20	40	Black (BK)	25 m	170-05250
HELAHOOK30	25	50	Black (BK)	25 m	170-05300

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

Date of issue: 10/2017

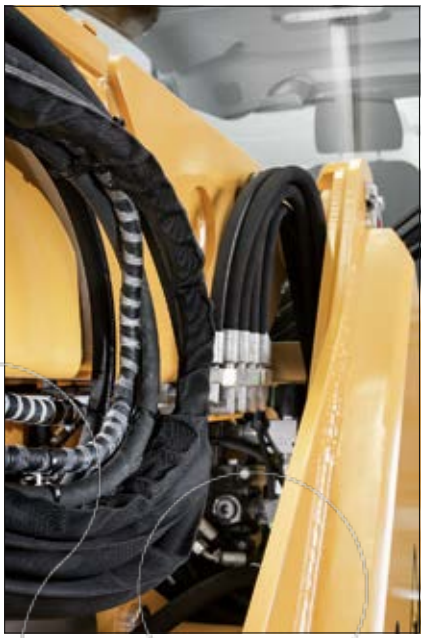
Burst Protection Sleeving for Hydraulic Hoses

Helagaine HEGWS

HEGWS is burst protection sleeve highly resistant to abrasion and tears. HEGWS is used to protect hydraulic hoses and prevent injuries due to leaks emitting high-pressure liquid jets. HEGWS is typically used with earth moving machinery and where the is high mechanical vibration.

Features and benefits

- Exceptional tear-resistance
- Very good protection against abrasion
- Optimal protection of hydraulic hoses
- Reduces risk of liquid-jet injuries
- Fullfils the standards of Earth Moving Machinery EN ISO 3457 and Mechanical Vibration and Shock EN 1299



Helagaine HEGWS: The ideal protective sleeve for hydraulic hoses.

One Step to the Web!

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-60 °C to +125 °C
Melting Point	+220 +/- 10 °C
Flammability	UL94 V2, FMVSS 302, Type B

HF ✓ RoHS ✓

TYPE	Inside Ø (ID)	Wall (WT)	Colour	Reel Length	Tools	Article-No.
HEGWS20	12	1.1	Black (BK)	50 m	45	170-01300
HEGWS25	15	1.1	Black (BK)	50 m	45	170-01301
HEGWS30	19	1.1	Black (BK)	50 m	45	170-01302
HEGWS35	22	1.1	Black (BK)	50 m	45	170-01303
HEGWS40	25	1.1	Black (BK)	50 m	45	170-01304
HEGWS45	28	1.1	Black (BK)	50 m	45	170-01305
HEGWS50	31	1.1	Black (BK)	50 m	45	170-01306
HEGWS60	38	1.1	Black (BK)	50 m	45	170-01307
HEGWS70	44	1.1	Black (BK)	50 m	45	170-01308
HEGWS80	50	1.1	Black (BK)	50 m	45	170-01309
HEGWS90	57	1.1	Black (BK)	50 m	45	170-01310
HEGWS100	60	1.1	Black (BK)	50 m	45	170-01311
HEGWS115	70	1.1	Black (BK)	50 m	45	170-01312
HEGWS145	90	1.1	Black (BK)	50 m	45	170-01313
HEGWS176	110	1.1	Black (BK)	50 m	45	170-01314
HEGWS200	125	1.1	Black (BK)	50 m	45	170-01315

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

Recommended Tools	
	45 HSG0
	572

For more information on toolings please refer to the Application Tooling chapter.

Date of issue: 10/2017

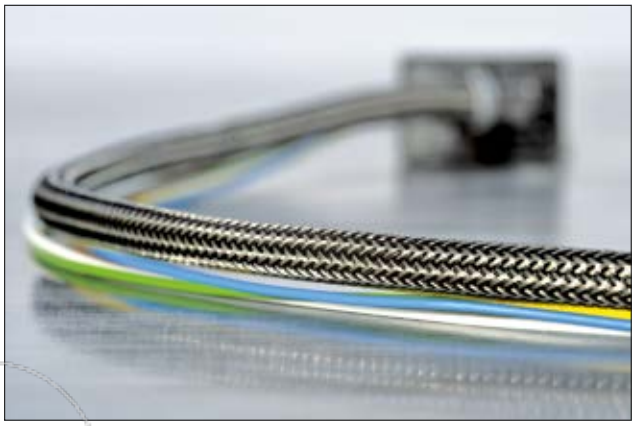
Electromagnetic protection braided sleeving

Helagaine HEGEMIP

Helagaine HEGEMIP braided sleeving is used for highly sensitive electronics, such as in machines, military equipment and automobiles.

Features and benefits

- Excellent electromagnetic protection
- Extremely flexible, expandable and easy to apply
- No kinks or ruptures even when bent at sharp angles
- Superior abrasion protection
- Particularly suitable for applications with restricted space or requiring movement
- Inner disposable tube protects sleeve from deformation and allows for easy insertion of cables
- Fulfils the requirements of IEC CISPR25 for radio disturbances in vehicles, boats and engines



HEGEMIP braided sleeving: reliable protection from electromagnetic radiation.

MATERIAL	Polyester, halogen free (PET), Tin-plated copper (TNCU)
Operating Temperature	-40 °C to +150 °C
EMI requirements	10 kHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)
Flammability	UL94 V2, FMVSS 302

HF ✓ RoHS ✓

TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIP04	4	4	6	Tin-coloured and Black (TCBK)	21.5 g/m	100 m	173-00400
HEGEMIP06	6	5	10	Tin-coloured and Black (TCBK)	28.5 g/m	100 m	173-00600
HEGEMIP08	8	8	11	Tin-coloured and Black (TCBK)	35.7 g/m	100 m	173-00800
HEGEMIP10	10	8	13	Tin-coloured and Black (TCBK)	43.5 g/m	50 m	173-01000
HEGEMIP12	12	10	15	Tin-coloured and Black (TCBK)	48.0 g/m	50 m	173-01200
HEGEMIP14	14	12	18	Tin-coloured and Black (TCBK)	58.0 g/m	100 m	173-01400
HEGEMIP16	16	14	20	Tin-coloured and Black (TCBK)	72.5 g/m	100 m	173-01600
HEGEMIP18	18	16	22	Tin-coloured and Black (TCBK)	78.6 g/m	50 m	173-01800
HEGEMIP20	20	18	25	Tin-coloured and Black (TCBK)	100.0 g/m	50 m	173-02000

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

Date of issue: 10/2017

Electromagnetic protection, flame-retardant protection braided sleeving

Helagaine HEGEMIPV0

Helagaine HEGEMIPV0 braided sleeving is used for sensitive electronics where fire protection is important, such as in the mass transit, aerospace and military industries.

Features and benefits

- Excellent electromagnetic protection
- Extremely flexible, expandable and easy to apply
- No kinks or ruptures, even when bent at sharp angles
- Self-extinguishing according to UL94 V0
- Superior abrasion protection
- Particularly suitable for applications with restricted space or requiring movement
- Inner disposable tube protects sleeve from deformation and allows for easy insertion of cables
- Fulfils the requirements of IEC CISPR25 for radio disturbances in vehicles, boats and engines

HEGEMIPV0 braided sleeve: EMI protection with enhanced flame retardance.

MATERIAL	Polyester (PBT), Tin-plated copper (TNCU)
Operating Temperature	-40 °C to +150 °C
EMI requirements	10 kHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)
Flammability	UL94 V0, FMVSS 302

RoHS

TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIPV004	4	4	6	Tin-coloured and Black (TCBK)	21.5 g/m	100 m	173-60400
HEGEMIPV006	6	5	10	Tin-coloured and Black (TCBK)	28.5 g/m	100 m	173-60600
HEGEMIPV008	8	8	11	Tin-coloured and Black (TCBK)	26.5 g/m	100 m	173-60800
HEGEMIPV010	10	8	13	Tin-coloured and Black (TCBK)	43.5 g/m	50 m	173-61000
HEGEMIPV012	12	10	15	Tin-coloured and Black (TCBK)	48.0 g/m	50 m	173-61200
HEGEMIPV014	14	12	18	Tin-coloured and Black (TCBK)	58.0 g/m	100 m	173-61400
HEGEMIPV016	16	14	20	Tin-coloured and Black (TCBK)	72.5 g/m	100 m	173-61600
HEGEMIPV018	18	16	22	Tin-coloured and Black (TCBK)	78.6 g/m	50 m	173-61800
HEGEMIPV020	20	18	25	Tin-coloured and Black (TCBK)	100.0 g/m	50 m	173-62000

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

Date of issue: 10/2017

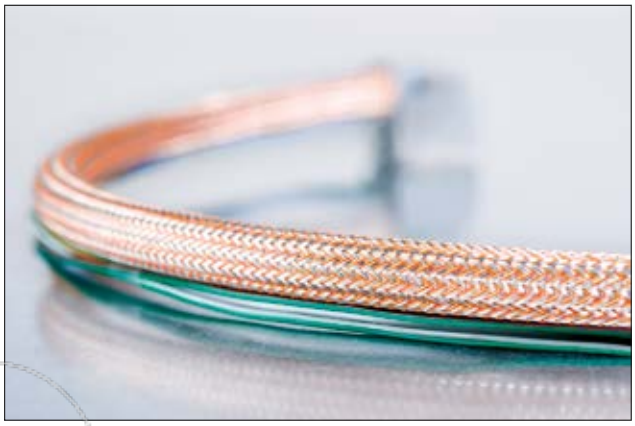
Electromagnetic protection braided sleeving for hybrid automobiles

Helagaine HEGEMIP-HY

Helagaine HEGEMIP-HY provides electromagnetic protection in hybrid automobiles.

Features and benefits

- Excellent electromagnetic protection
- Extremely flexible, expandable and easy to apply
- No kinks or ruptures even when bent at sharp angles
- Superior abrasion protection
- Special copper alloy for enhanced protection against salt spray
- Particularly suitable for applications with restricted space or requiring movement
- Inner disposable tube protects sleeve from deformation and allows for easy insertion of cables
- Fulfils the requirements of IEC CISPR25 for radio disturbances in vehicles, boats and engines



HEGEMIP-HY braided sleeving: EMI protection for hybrid automobiles.

MATERIAL	Polyester (PET), Tin-plated copper (TNCU)
Operating Temperature	-40 °C to +150 °C
EMI requirements	10 kHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)
Flammability	UL94 V2, FMVSS 302

HF ✓ RoHS ✓

TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIP-HY20	20	19	27	Silver (SR), Orange (OG)	72 g/m	50 m	173-02001
HEGEMIP-HY30	30	25	35	Silver (SR), Orange (OG)	101 g/m	50 m	173-03000
HEGEMIP-HY35	35	30	40	Silver (SR), Orange (OG)	120 g/m	50 m	173-03501
HEGEMIP-HY40	40	30	50	Silver (SR), Orange (OG)	180 g/m	50 m	173-04000
HEGEMIP-HY50	50	40	60	Silver (SR), Orange (OG)	193 g/m	50 m	173-05000

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

Date of issue: 10/2017

Electromagnetic protection braided sleeving for defence applications

Helagaine HEGEMIP-VG

Helagaine HEGEMIP-VG provides electromagnetic protection for the defence industry.

Features and benefits

- Excellent electromagnetic protection
- Very flexible, expandable and easy to apply
- Especially suitable for applications in tight areas or requiring movement
- Inner disposable tube protects sleeve from deformation and allows for easy insertion of cables
- Very good abrasion resistance
- Approved to military norm VG 96936-10 / Type A

HEGEMIP-VG braided sleeving with VG approval for defence applications.

MATERIAL	Tin-plated copper (TNCU)
Operating Temperature	-65 °C to +150 °C
Flammability	UL94 V2, FMVSS 302

RoHS

One Step to the Web!

TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIP-VG03	3	3.5	5.0	Metal (ML)	18.5 g/m	500 m	173-00200
HEGEMIP-VG04	4	4.5	7.0	Metal (ML)	30.0 g/m	500 m	173-00201
HEGEMIP-VG06	6	5.5	8.5	Metal (ML)	36.5 g/m	500 m	173-00202
HEGEMIP-VG07,5	7.5	7.5	13.5	Metal (ML)	71.0 g/m	500 m	173-00203
HEGEMIP-VG10	10	13.0	17.5	Metal (ML)	95.5 g/m	250 m	173-00204
HEGEMIP-VG12,5	12.5	15.0	19.5	Metal (ML)	100.0 g/m	200 m	173-00205
HEGEMIP-VG20	20	19.0	30.0	Metal (ML)	264.5 g/m	100 m	173-00206

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

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

Date of issue: 10/2017

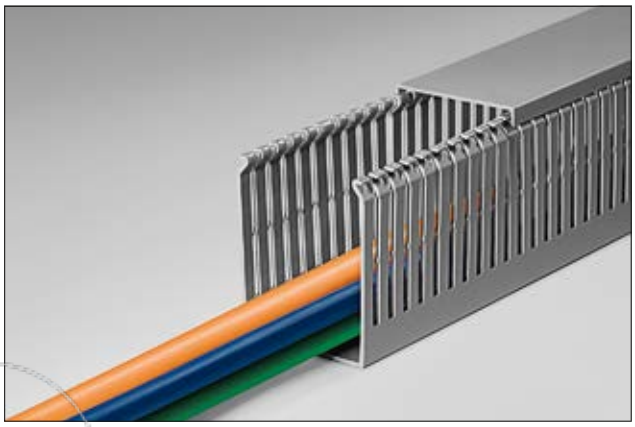
Rigid PVC Wiring Ducts

HelaDuct HTWD-PN for small-diameter wires

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

Features and benefits

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

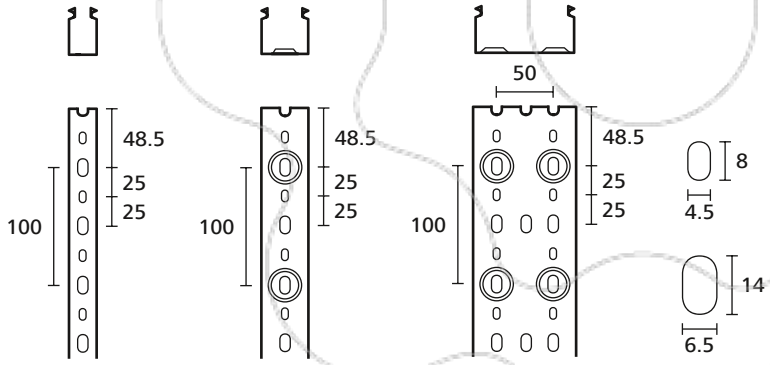


HTWD-PN wiring ducts with narrow fingers and slots for small-diameter wires.

MATERIAL	Polyvinylchloride (PVC)
Colour	Grey (GY)
Length (L)	2 m
Operating Temperature	-5 °C to +65 °C
Flammability	UL94 V0

RoHS

HTWD-PN wiring ducts base perforation according to DIN EN 50085



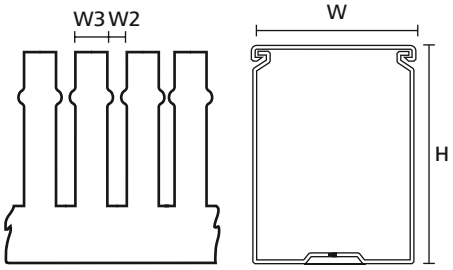
Width 25 *Width 40-60* *Width 80-120* *Hole dimensions*

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

Date of issue: 10/2017

Rigid PVC Wiring Ducts

HelaDuct HTWD-PN for small-diameter wires



Wiring duct HTWD-PN

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

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

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

Date of issue: 10/2017

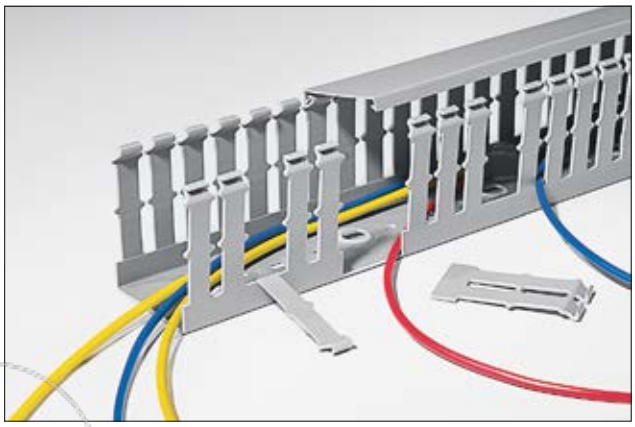
Rigid PVC Wiring Ducts

HelaDuct HTWD-PW for large-diameter wires

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

Features and benefits

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

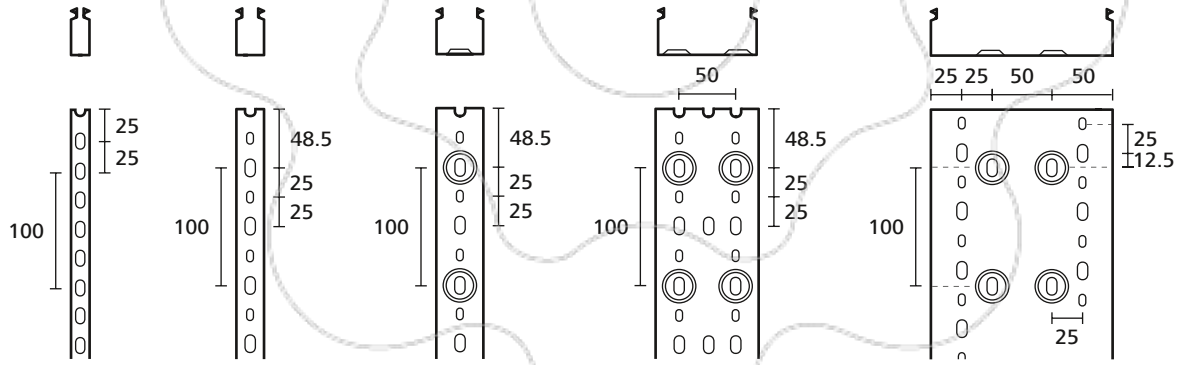


HTWD-PW wiring ducts with wide fingers and slots for large-diameter wires.

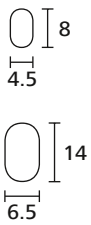
MATERIAL	Polyvinylchloride (PVC)
Colour	Grey (GY)
Length (L)	2 m
Operating Temperature	-5 °C to +65 °C
Flammability	UL94 V0

RoHS

HTWD-PW wiring ducts base perforation according to DIN EN 50085



Width 15 *Width 25* *Width 40-60* *Width 80-120* *Width 150*



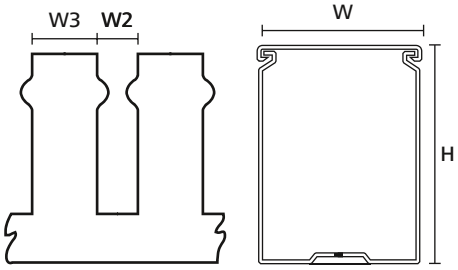
Hole dimensions

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

Date of issue: 10/2017

Rigid PVC Wiring Ducts

HelaDuct HTWD-PW for large-diameter wires



Wiring duct HTWD-PW

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

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

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

Date of issue: 10/2017

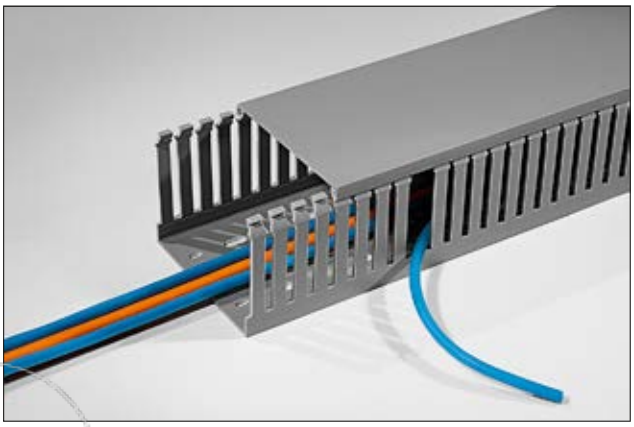
Rigid PVC Wiring Ducts

HelaDuct HTWD-PD DIN-sizes

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

Features and benefits

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

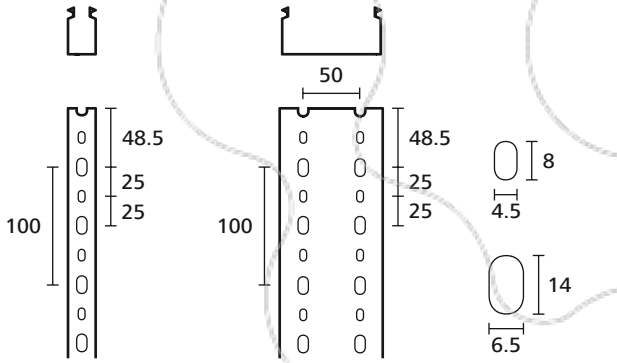


HTWD-PD wiring ducts in DIN sizes.

MATERIAL	Polyvinylchloride (PVC)
Colour	Grey (GY)
Length (L)	2 m
Flammability	UL94 V0
Operating Temperature	-5 °C to +60 °C

RoHS

HTWD-PD wiring ducts base perforation according to DIN EN 50085



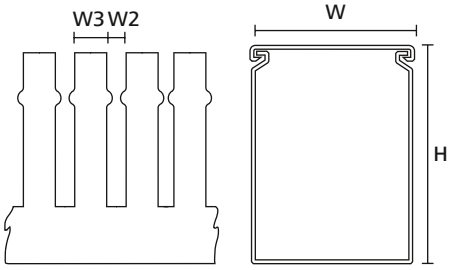
Width 20-50 *Width 75-100* *Hole dimensions*

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

Date of issue: 10/2017

Rigid PVC Wiring Ducts

HelaDuct HTWD-PD DIN-sizes



Wiring duct HTWD-PD

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

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

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

Date of issue: 10/2017

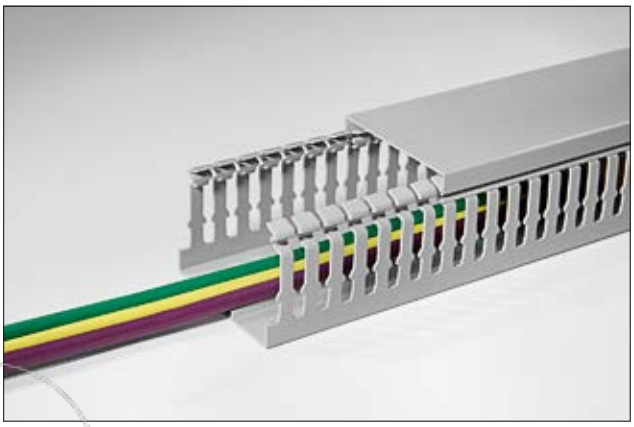
Halogen-Free Wiring Ducts

HelaDuct HTWD-HF

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

Features and benefits

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

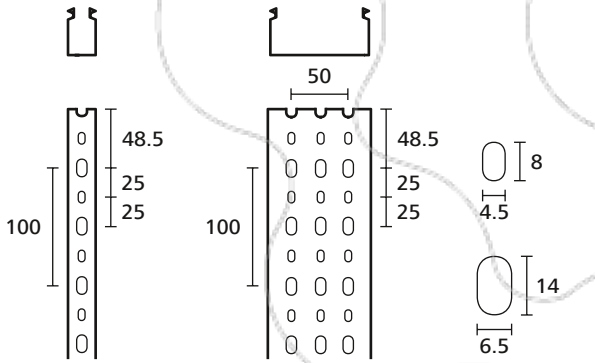


Halogen-Free wiring ducts HelaDuct HTWD-HF for high safety demands.

MATERIAL	Acrylonitrile Butadiene Styrene alloyed with Polycarbonate (PC/ABS)
Colour	Grey (GY)
Length (L)	2 m
Operating Temperature	-25 °C to +90 °C
Flammability	UL94 V0

HF ✓ RoHS ✓

HTWD-HF wiring ducts base perforation according to DIN EN 50085



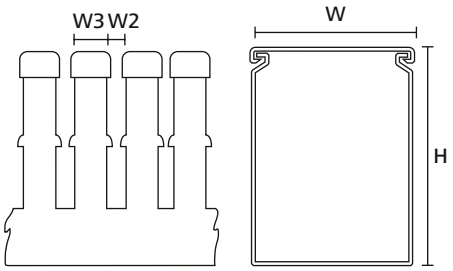
Width 25-60 *Width 80-120* *Hole dimesions*

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

Date of issue: 10/2017

Halogen-Free Wiring Ducts

HelaDuct HTWD-HF



HelaDuct Wiring ducts HTWD-HF

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Article-No.
HTWD-HF-25X25	25	25	6	6.5	50 m	183-22525
HTWD-HF-25X40	25	40	6	6.5	48 m	183-22540
HTWD-HF-25X60	25	60	6	6.5	60 m	183-25060
HTWD-HF-25X80	25	80	6	6.5	20 m	183-22580
HTWD-HF-40X25	40	25	6	6.5	48 m	183-24025
HTWD-HF-40X40	40	40	6	6.5	50 m	183-24040
HTWD-HF-40X60	40	60	6	6.5	40 m	183-24060
HTWD-HF-40X80	40	80	6	6.5	20 m	183-24080
HTWD-HF-60X40	60	40	6	6.5	40 m	183-26040
HTWD-HF-60X60	60	60	6	6.5	24 m	183-26060
HTWD-HF-60X80	60	80	6	6.5	20 m	183-26080
HTWD-HF-60X100	60	100	6	6.5	16 m	183-26010
HTWD-HF-80X40	80	40	6	6.5	30 m	183-28040
HTWD-HF-80X60	80	60	6	6.5	24 m	183-28060
HTWD-HF-80X80	80	80	6	6.5	12 m	183-28080
HTWD-HF-80X100	80	100	6	6.5	16 m	183-28010
HTWD-HF-100X40	100	40	6	6.5	20 m	183-22040
HTWD-HF-100X60	100	60	6	6.5	16 m	183-21060
HTWD-HF-100X80	100	80	6	6.5	12 m	183-21080
HTWD-HF-100X100	100	100	6	6.5	12 m	183-21010
HTWD-HF-120X60	120	60	6	6.5	12 m	183-21260
HTWD-HF-120X80	120	80	6	6.5	16 m	183-21280

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

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

Date of issue: 10/2017

Flexible Cable Support

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

Features and benefits

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

HelaDuct Flex can be installed at angles above 90°.

MATERIAL	Polypropylene (PP)
Operating Temperature	-20 °C to +70 °C
Adhesive	Synthetic rubber with base of polyethylene foam
Flammability	UL94 V0 (excluding adhesive)

HF ✓ RoHS ✓

HelaDuct Flex screwable

TYPE	Nominal Ø	Fixation Method	No. of Wires		Colour	Length (L)	Pack Cont.	Article-No.
HelaDuct Flex10	10	Screw Mounting	6 x 1.50 mm²	4 x 2.50 mm²	White (WH)	500	100 pcs.	164-11008
HelaDuct Flex20	20	Screw Mounting	22 x 1.50 mm²	14 x 2.50 mm²	White (WH)	500	70 pcs.	164-21008
HelaDuct Flex30	30	Screw Mounting	50 x 1.50 mm²	34 x 2.50 mm²	White (WH)	500	40 pcs.	164-31008
HelaDuct Flex40	40	Screw Mounting	81 x 1.50 mm²	60 x 2.50 mm²	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

TYPE	Nominal Ø	Fixation Method	No. of Wires		Colour	Length (L)	Pack Cont.	Article-No.
HelaDuct Flex10SK	10	Screw Mounting and Adhesive	6 x 1.50 mm²	4 x 2.50 mm²	White (WH)	500	100 pcs.	164-11108
HelaDuct Flex20SK	20	Screw Mounting and Adhesive	22 x 1.50 mm²	14 x 2.50 mm²	White (WH)	500	70 pcs.	164-21108
HelaDuct Flex30SK	30	Screw Mounting and Adhesive	50 x 1.50 mm²	34 x 2.50 mm²	White (WH)	500	40 pcs.	164-31108
HelaDuct Flex40SK	40	Screw Mounting and Adhesive	81 x 1.50 mm²	60 x 2.50 mm²	White (WH)	500	24 pcs.	164-41108

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

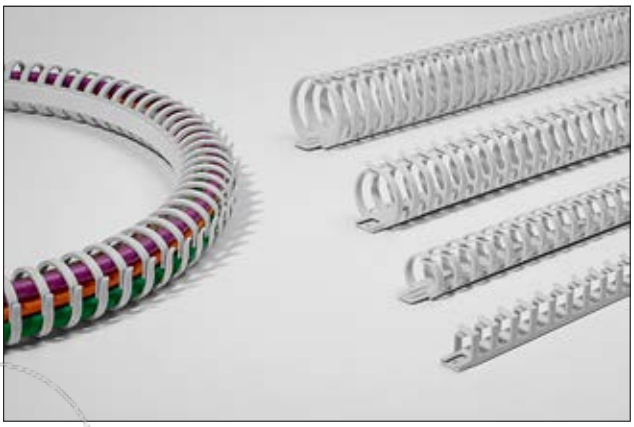
Date of issue: 10/2017

Flexible Cable Support

HelaDuct Flex are used to route cables where bending and twisting are common and cables need to be monitored, particularly in the door area.

Features and benefits

- Very flexible, can be bent and twisted
- Cables easily and safely inserted
- Keeps cables open to view
- Rapidly mounted with adhesive strip or screws with high-quality foam bonding layer
- Can be clicked together end-to-end to create longer lengths



HelaDuct HTWD-Flex is strong, flexible and easy to mount.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-25 °C to +90 °C
Flammability	UL94 V0

HF ✓ RoHS ✓

HelaDuct Flex screwable

TYPE	Nominal Ø	Fixation Method	No. of Wires		Colour	Length (L)	Pack Cont.	Article-No.
HTWD-FLEX-10	10	Screw Mounting	8 x 1.50 mm²	5 x 2.50 mm²	White (WH)	250	40 pcs.	164-40010
HTWD-FLEX-20	20	Screw Mounting	18 x 1.50 mm²	13 x 2.50 mm²	White (WH)	500	40 pcs.	164-40020
HTWD-FLEX-30	30	Screw Mounting	46 x 1.50 mm²	30 x 2.50 mm²	White (WH)	500	40 pcs.	164-40030
HTWD-FLEX-40	40	Screw Mounting	81 x 1.50 mm²	53 x 2.50 mm²	White (WH)	500	40 pcs.	164-40040

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

HelaDuct Flex with Adhesive

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-25 °C to +90 °C
Adhesive	Acrylate with base of polyethylene foam
Flammability	UL94 V0 (excluding adhesive)

HF ✓ RoHS ✓

TYPE	Nominal Ø	Fixation Method	No. of Wires		Colour	Length (L)	Pack Cont.	Article-No.
HTWD-FLEX-A-10	10	Screw Mounting and Adhesive	8 x 1.50 mm²	5 x 2.50 mm²	White (WH)	250	40 pcs.	164-40015
HTWD-FLEX-A-20	20	Screw Mounting and Adhesive	18 x 1.50 mm²	13 x 2.50 mm²	White (WH)	500	40 pcs.	164-40025
HTWD-FLEX-A-30	30	Screw Mounting and Adhesive	46 x 1.50 mm²	30 x 2.50 mm²	White (WH)	500	40 pcs.	164-40035
HTWD-FLEX-A-40	40	Screw Mounting and Adhesive	81 x 1.50 mm²	53 x 2.50 mm²	White (WH)	500	40 pcs.	164-40045

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

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

Date of issue: 10/2017

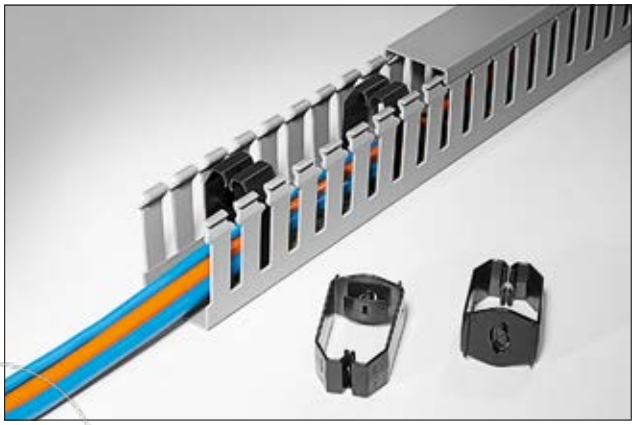
For mounting prior to wiring

HelaDuct HTWD-BWR Wire Retainers

HelaDuct 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

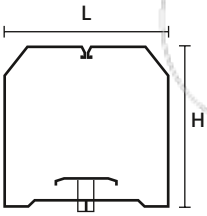
- Quickly and easily fastend on raised mounting points with a 1/4 turn of a screwdriver
- Wires easily inserted and firmly held in place
- Anchor of retainer remains inside raised mounting point and does not protrude below surface of duct base
- Reduces strain on duct fingers especially at corners and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



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

MATERIAL	Acrylonitrile Butadiene Styrene alloyed with Polycarbonate (PC/ABS)
Operating Temperature	-5 °C to +85 °C
Flammability	UL94 HB

HF ✓ RoHS ✓



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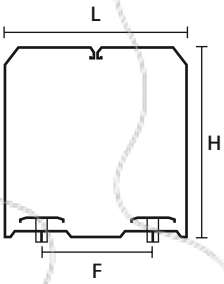

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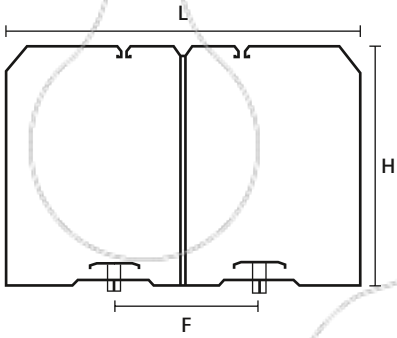

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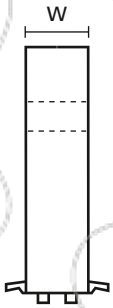


HTWD-BWR

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.

Date of issue: 10/2017

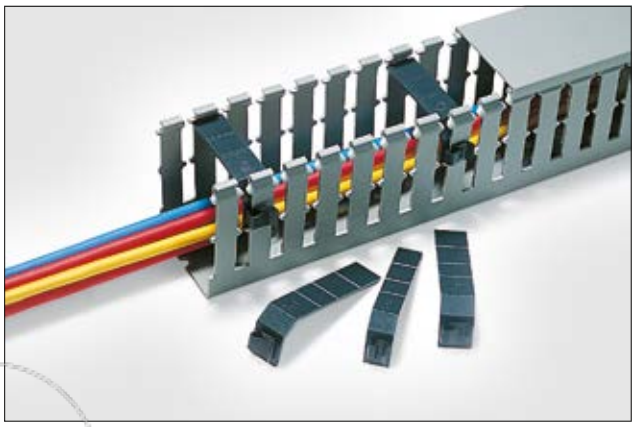
For mounting to duct fingers

HelaDuct HTWD-NFWR and HTWD-WFWR Wire Retainers

HTWD-NFWR for the HTWD-PN ducts and HTWD-WFWR for HTWD-PW ducts are easily inserted onto fingers and hold wires securely into place when cover is removed.

Features and benefits

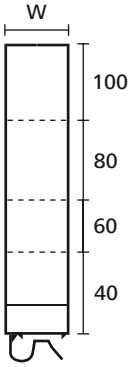
- Prevents wires from falling out even when vertical routed
- Easily inserted onto single fingers of duct
- Height can be freely adjusted
- Does not block insertion of wirings into slots
- One retainer for all duct widths: length of retainer can be shortened at break-off points to duct width
- HTWD-NFWR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



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

MATERIAL	Acrylonitrile Butadiene Styrene (ABS)
Operating Temperature	-40 °C to +80 °C
Flammability	UL94 V0

HF ✓ RoHS ✓



HTWD-NFWR, -WFWR

TYPE	For Wiring Ducts	Width (W)	Colour	Pack Cont.	Article-No.
HTWD-NFWR	HTWD-PN	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.

Date of issue: 10/2017

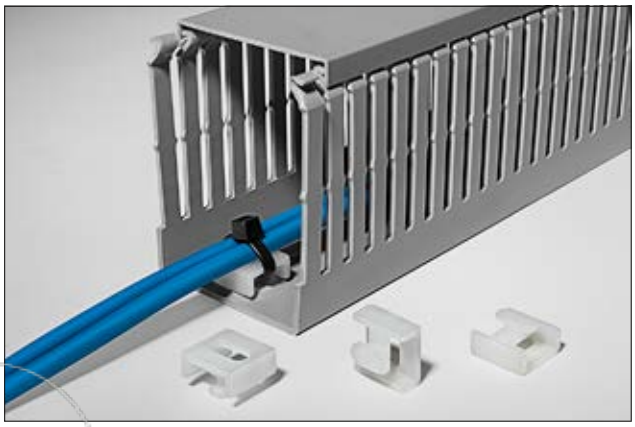
For fastening components to base of ducts

HelaDuct HTWD-CTH and HTWD-TL Mounts

HelaDuct HTWD-CTH is used to anchor a cable tie securely to the base of a duct. 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
- Cable tie easily laced through HTWD-CTH
- Anchor of mount remains inside raised mounting point and does not protrude below surface of duct base

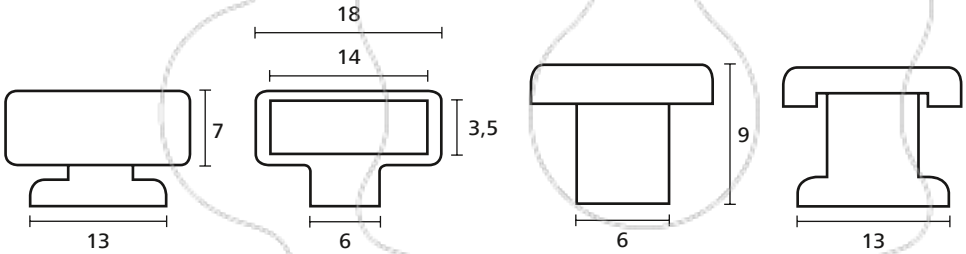


HTWD-CTH and HTWD-TL for mounting components to base of ducts.

For a unique solution for mounting wiring ducts to DIN rails, use HTWD-TL together with the HTWD-RB rail blocks on page 368.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +80 °C
Flammability	UL94 V2

HF ✓ RoHS ✓



HTWD-CTH Mount *HTWD-TL Mount*

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

Date of issue: 10/2017

For installing wiring ducts into fixing holes

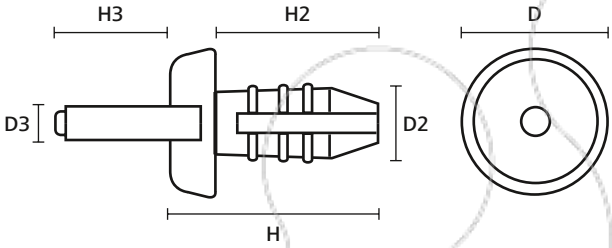
HelaDuct HTWD-R4 and HTWD-R6 Rivets

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

Features and benefits

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

HTWD-R4 and HTWD-R6 Rivet.



HTWD-R4, -R6

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +80 °C
Flammability	UL94 V2

HF ✓ RoHS ✓

TYPE	Height (H)	Height (H2)	Height (H3)	Ø (D)	Ø (D2)	Ø (D3)	Colour	Pack Cont.	Article-No.
HTWD-R4	14.0	12.0	11.5	9.0	5.0	4.0	Blue (BU)	1,000 pcs.	181-42400
HTWD-R6	16.0	12.7	13.0	11	6.0	3.0	Black (BK)	250 pcs.	181-42600
	16.0	14.0	13.5	11	7.5	6.0	Orange (OG)	500 pcs.	181-42500

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

For inserting R4 and R6 rivets

HelaDuct HTWD-RT4 and HTWD-RT6 Rivet Tools

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

Features and benefits

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

Rivet Tools HTWD-RT4, -RT6.

MATERIAL	Metal (MET), Plastic (PL)

RoHS ✓

TYPE	For Wiring Duct Rivets	Weight	Colour	Article-No.
HTWD-RT4	R4	0.5 kg	Blue (BU)	181-41542
HTWD-RT6	R6	0.5 kg	Orange (OG)	181-41564

All dimensions in mm. Subject to technical changes.

Date of issue: 10/2017

For mounting ducts to DIN rails

HelaDuct HTWD-RB Rail Mounting Blocks

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

Features and benefits

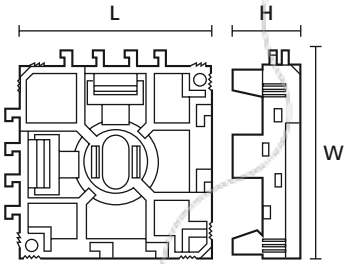
- Easily snapped onto DIN rail
- Rapidly fixed to wiring duct with a HTWD-TL mount
- Assembly direction of wiring duct can be either parallel or perpendicular to DIN rail

For a unique solution for mounting wiring ducts to DIN rails, use HTWD-RB together with the HTWD-TL mounts on page 366.

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

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +80 °C
Flammability	UL94 V2

HF ✓ RoHS ✓



HTWD-RB Rail Mounting Block

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

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

Date of issue: 10/2017

HellermannTyton
www.HellermannTyton.com

More space for efficient panel building

For more information on our cable management solutions for panel building, please see our new brochure.

Order your Panel Building Brochure today!

Date of issue: 10/2017

Edge protection for cut-out sections

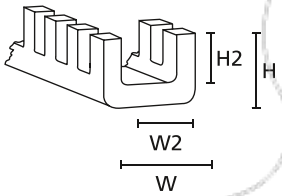
Flexiform edge protection is used to protect cables and wires routed through sharp-edged cut-out sections.

Features and benefits

- Very flexible
- Easily and securely applied without adhesives
- Provides effective, orderly-looking protection
- Flexiform G51P made of polyethylene offers general purpose edge protection
- Flexiform G51N made of PA6 offers very good abrasion resistance
- Flexiform G51T made of PTFE offers excellent resistance to high temperatures and most chemicals

Optimal protection of cables and wires at panel edges.

Flexiform G51P polyethylene grommet strip



Flexiform edge protection

MATERIAL	Polyethylene (PE)
Operating Temperature	-30 °C to +80 °C
Flammability	UL94 HB

HF ✓ RoHS ✓

TYPE	Panel Thickness	Width (W)	Width (W2)	Height (H)	Height (H2)	Material	Colour	Pack Cont.	Article-No.
G51PAA	0.4 - 0.9	2.3	0.9	2.7	1.8	PE	Natural (NA)	25 m	251-10009
G51PA	0.4 - 1.3	3.9	1.5	4.3	2.7	PE	Natural (NA)	25 m	251-10109
G51PB	1.3 - 2.1	4.6	2.4	4.3	2.7	PE	Natural (NA)	25 m	251-10209
G51PC	2.1 - 3.3	5.7	3.5	4.3	2.7	PE	Natural (NA)	25 m	251-10309
G51PD	3.3 - 4.8	8.4	5.1	6.2	4.3	PE	Natural (NA)	25 m	251-10409
G51PE	4.8 - 6.5	9.9	6.7	6.4	4.5	PE	Natural (NA)	25 m	251-10509
G51PF	6.5 - 8.1	11.4	8.3	6.8	4.8	PE	Natural (NA)	25 m	251-10609
G51PG	8.1 - 9.7	13.2	10.1	6.8	4.8	PE	Natural (NA)	25 m	251-10709
G51PH	9.7 - 12.9	16.4	13.2	6.8	4.8	PE	Natural (NA)	25 m	251-10809

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.
Flexiform grommet strips are not self-adhesive and therefore not suitable for outer edges.

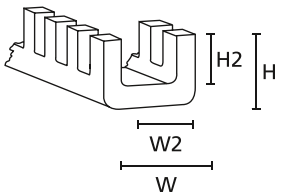
Date of issue: 10/2017

Edge protection for cut-out sections

Flexiform G51N polyamide 6 grommet strip

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-60 °C to +95 °C
Flammability	UL94 HB

HF ✓ RoHS ✓



Flexiform edge protection

TYPE	Panel Thickness	Width (W)	Width (W2)	Height (H)	Height (H2)	Material	Colour	Pack Cont.	Article-No.
G51NA	0.4 - 1.3	3.9	1.5	4.3	2.7	PA6	Natural (NA)	25 m	251-21109
G51NB	1.3 - 2.1	4.6	2.4	4.3	2.7	PA6	Natural (NA)	25 m	251-21209
G51NC	2.1 - 3.3	5.7	3.5	4.3	2.7	PA6	Natural (NA)	25 m	251-21309
G51ND	3.3 - 4.8	8.4	5.1	6.2	4.3	PA6	Natural (NA)	25 m	251-21409
G51NE	4.8 - 6.5	9.9	6.7	6.4	4.5	PA6	Natural (NA)	25 m	251-21509
G51NF	6.5 - 8.1	11.4	8.3	6.8	4.8	PA6	Natural (NA)	25 m	251-21609
G51NG	8.1 - 9.7	13.2	10.1	6.8	4.8	PA6	Natural (NA)	25 m	251-21709
G51NH	9.7 - 12.9	16.4	13.2	6.8	4.8	PA6	Natural (NA)	25 m	251-21809

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.
Flexiform grommet strips are not self-adhesive and therefore not suitable for outer edges.

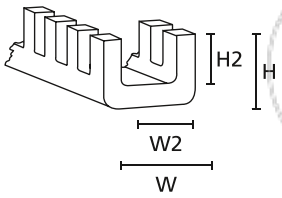
NASM NSA

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

Flexiform G51T PTFE grommet strip

MATERIAL	Polytetrafluoroethylene (PTFE)
Operating Temperature	-60 °C to +260 °C, intermittent +350 °C
Flammability	UL94 V0

RoHS ✓



Flexiform edge protection

TYPE	Panel Thickness	Width (W)	Width (W2)	Height (H)	Height (H2)	Material	Colour	Pack Cont.	Article-No.
G51TA	0.4 - 1.3	3.9	1.5	4.3	2.7	PTFE	Natural (NA)	3 m	251-30109
G51TB	1.3 - 2.1	4.6	2.4	4.3	2.7	PTFE	Natural (NA)	3 m	251-30209
G51TC	2.1 - 3.3	5.7	3.5	4.3	2.7	PTFE	Natural (NA)	3 m	251-30309
G51TD	3.3 - 4.8	8.4	5.1	6.2	4.3	PTFE	Natural (NA)	3 m	251-30409
G51TE	4.8 - 6.5	9.9	6.7	6.4	4.5	PTFE	Natural (NA)	3 m	251-30509
G51TF	6.5 - 8.1	11.4	8.3	6.8	4.8	PTFE	Natural (NA)	3 m	251-30609
G51TG	8.1 - 9.7	13.2	10.1	6.8	4.8	PTFE	Natural (NA)	3 m	251-30709
G51TH	9.7 - 12.9	16.4	13.2	6.8	4.8	PTFE	Natural (NA)	3 m	251-30809

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.
Flexiform grommet strips are not self-adhesive and therefore not suitable for outer edges.

Date of issue: 10/2017

Edge protection

EdgeGuard

EdgeGuard is used to cover panel edging to prevent chafing and provide an attractive finish.

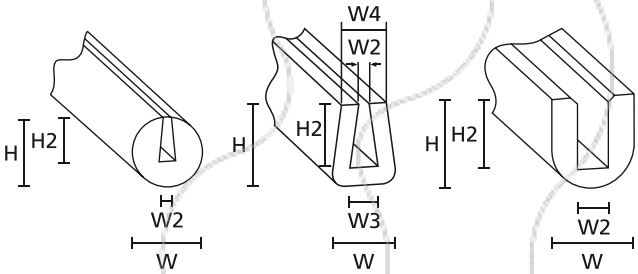
Features and benefits

- Very flexible
- Easy to apply
- Protects cables from chafing on bulkheads

EdgeGuard protection against sharp panel edges.

MATERIAL	Polyvinylchloride (PVC)
Operating Temperature	-65 °C to +105 °C
Flammability	UL94 HB

RoHS



PS1 *SM1* *RA1*

TYPE	Width (W)	Width (W2)	Width (W3)	Width (W4)	Height (H)	Height (H2)	Colour	Pack Cont.	Article-No.
PS1	1.2	0.6	-	-	5.0	3.2	Black (BK)	75 m	800-00200
SM1	5.0	1.0	1.8	4.2	6.3	4.9	Black (BK)	75 m	800-00004
RA1	6.4	2.4	-	-	7.1	5.6	Black (BK)	75 m	800-00001

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

Date of issue: 10/2017

HellermannTyton
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HelaGuard Flexible Conduits and Fittings

For more information on our complete HelaGuard range of non-metallic and metallic conduits and fittings, please see our new HelaGuard catalogue.

Order your HelaGuard catalogue today!

Date of issue: 10/2017

For flat pin bushings

Push-on caps

The protective push-on caps and elbow grommets are specially constructed to insulate and protect flat pin bushings. They are used in all areas of automotive electronics and connection technology.

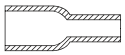
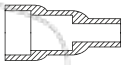
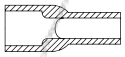
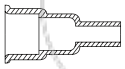
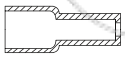
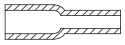
Features and benefits

- Protects effectively against spraying water
- Flexible and easy to apply
- High resistance to chemicals and environmental influences

Push-on caps and elbow grommets in various dimensions.

MATERIAL	Polyvinylchloride (PVC)	Polyvinylchloride, flame retardant (PVC-FR)	Polyethylene (PE)
Operating Temperature	-30 °C to +60 °C		-10 °C to +70 °C
Shore Hardness A	70±5	56±5	nom. 45
Flammability	UL94 HB	UL94 V0	UL94 HB

RoHS ✓ RoHS ✓ HF ✓ RoHS ✓

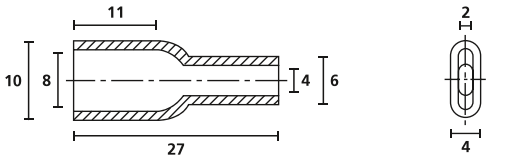
TYPE	Drawing	Material	Colour	Pack Cont.	Article-No.
HV4819		PVC-FR	Black (BK)	2,000 pcs.	631-08190
		PVC-FR	Natural (NA)	2,000 pcs.	631-08199
HV4820		PVC	Black (BK)	2,000 pcs.	631-08200
		PVC	Natural (NA)	2,000 pcs.	631-08209
HV4823		PVC	Black (BK)	2,000 pcs.	631-08230
		PVC	Natural (NA)	2,000 pcs.	631-08239
HV4825		PVC	Natural (NA)	2,000 pcs.	631-08259
OP4827		PE	Natural (NA)	2,000 pcs.	631-58279
OP4828		PE	Natural (NA)	2,000 pcs.	631-58289

All dimensions in mm. Subject to technical changes.

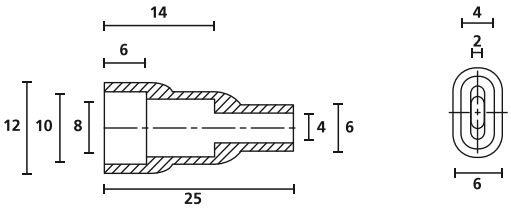
Date of issue: 10/2017

For flat pin bushings

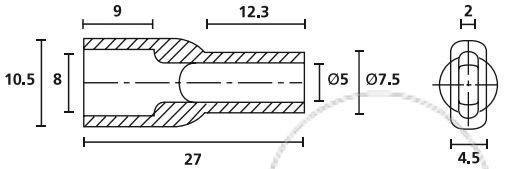
Push-on caps



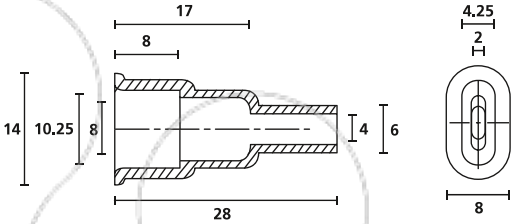
HV4819



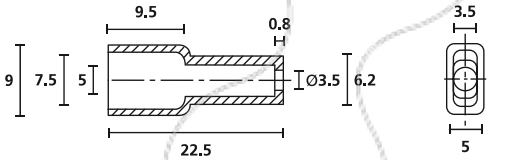
HV4820



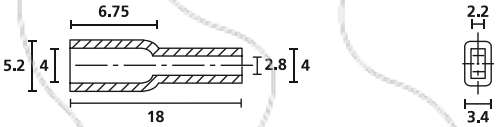
HV4823



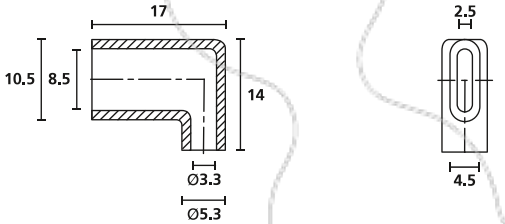
HV4825



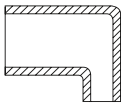
OP4827



OP4828



HV4821

TYPE	Drawing	Material	Colour	Pack Cont.	Article-No.
HV4821		PVC-FR	Black (BK)	2,000 pcs.	631-08210
		PVC-FR	Natural (NA)	2,000 pcs.	631-08219

All dimensions in mm. Subject to technical changes.

Date of issue: 10/2017

For strain relief

Bend protection grommets

Bend protection grommets are typically used to protect cables and wires at the apertures in casings.

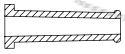
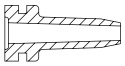
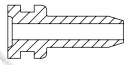
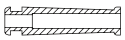
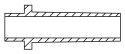
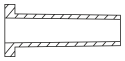
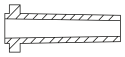
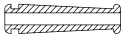
Features and benefits

- Routes cables free of kinks and breakage
- Provides strain relief
- Flexible and easy to apply
- High resistance to chemicals und environmental influences

Protection and routing of cables free of kinks and breakage.

MATERIAL	Polyvinylchloride, flame retardant (PVC-FR)
Operating Temperature	-30 °C to +60 °C
Shore Hardness A	56±5
Flammability	UL94 V0

RoHS

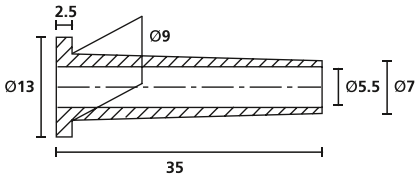
TYPE	Drawing	Colour	Pack Cont.	Article-No.
HV2101		Black (BK)	1,000 pcs.	632-01010
		Grey (GY)	1,000 pcs.	632-01017
		White (WH)	1,000 pcs.	632-01019
HV2101A		Black (BK)	1,000 pcs.	632-01020
HV2103		Black (BK)	1,000 pcs.	632-01030
HV2104		Black (BK)	1,000 pcs.	632-01040
HV2107		Black (BK)	200 pcs.	632-01070
HV2206		Black (BK)	500 pcs.	632-02060
HV2209		Black (BK)	1,000 pcs.	632-02090
HV2210		Black (BK)	1,000 pcs.	632-02100
HV2213		Black (BK)	2,000 pcs.	632-02130
HV2228		Black (BK)	500 pcs.	632-02280

All dimensions in mm. Subject to technical changes.

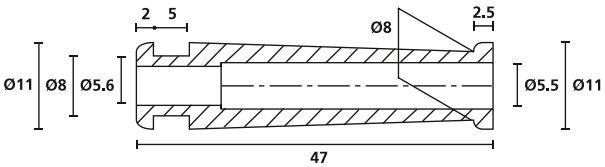
Date of issue: 10/2017

For strain relief

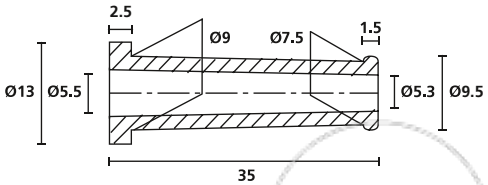
Bend protection grommets



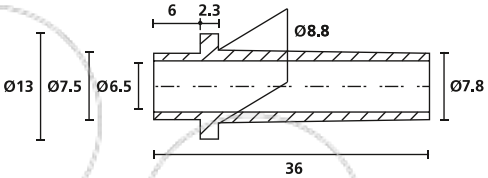
HV2101



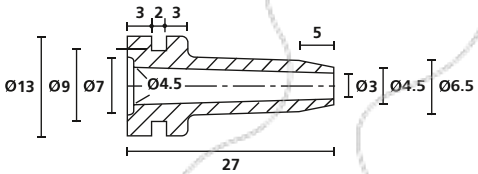
HV2206



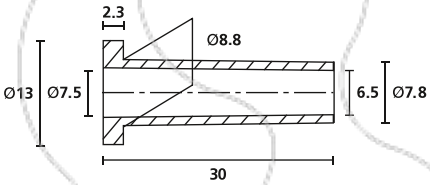
HV2101A



HV2209



HV2103



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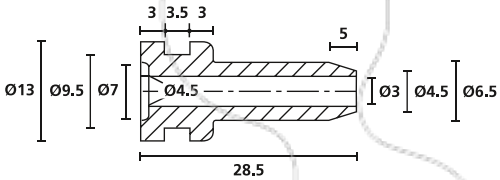
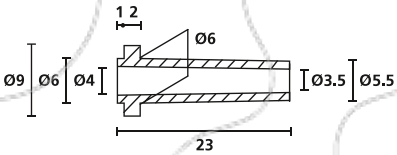
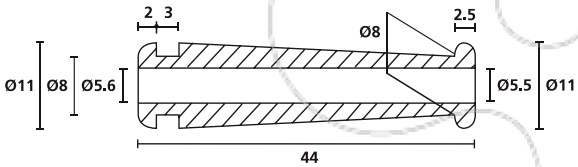


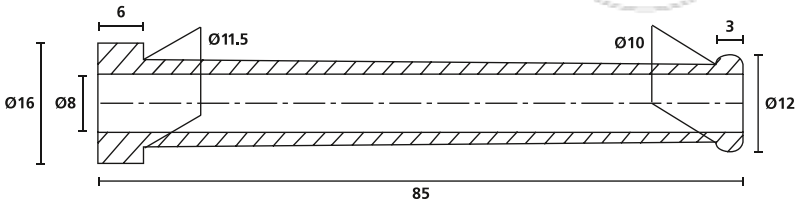
HV2104



HV2213



HV2228



HV2107

Date of issue: 10/2017

For strain relief

Strain relief grommets

Straining relief grommets are used as protection for cables and wires from pulling. They are also used for bend protection in casing apertures.

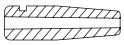
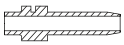
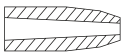
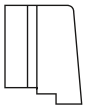
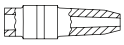
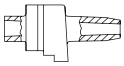
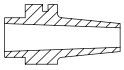
Features and benefits

- Provides excellent strain relieve
- Flexible and easy to apply
- High resistance to chemicals and environmental influences

Strain protection grommets in various shapes and sizes.

MATERIAL	Polyvinylchloride, flame retardant (PVC-FR)	Flexible Polyvinyl Chloride, cadmium free (PVC)
Operating Temperature	-30 °C to +60 °C	
Shore Hardness A	56±5	63±5
Flammability	UL94 V0	UL94 HB

RoHS ✓ RoHS ✓

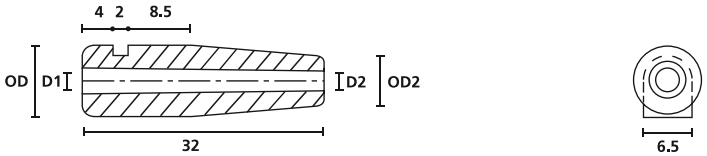
TYPE	Drawing	Outside Ø (OD)	Outside Ø (OD2)	Outside Ø (OD3)	Ø (D)	Ø (D2)	Material	Colour	Pack Cont.	Article-No.
H125		9.0	6.0	-	4.0	3.5	PVC	Black (BK)	1,000 pcs.	634-31250
H126		9.0	6.0	-	5.0	4.5	PVC	Black (BK)	1,000 pcs.	634-31260
		9.0	6.0	-	5.0	4.5	PVC	Grey (GY)	1,000 pcs.	634-31268
H321		8.5	7.0	8.5	6.0	5.5	PVC-FR	Black (BK)	200 pcs.	634-03210
H3A		9.0	5.0	8.0	4.5	3.0	PVC-FR	Black (BK)	2,000 pcs.	634-00310
H4202		-	-	-	-	-	PVC-FR	Black (BK)	1,000 pcs.	634-04200
H119		7.0	4.5	6.5	4.5	3.0	PVC-FR	Black (BK)	2,000 pcs.	634-01190
H120		8.0	6.0	8.0	4.5	3.0	PVC-FR	Black (BK)	500 pcs.	634-01200
H121		11.0	8.5	-	8.0	7.0	PVC-FR	Black (BK)	500 pcs.	634-01210

All dimensions in mm. Subject to technical changes.

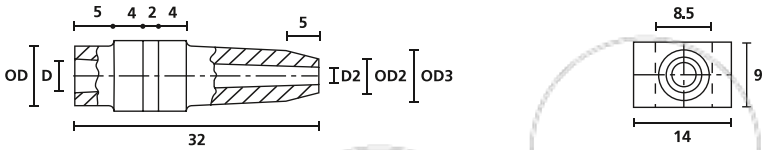
Date of issue: 10/2017

For strain protection

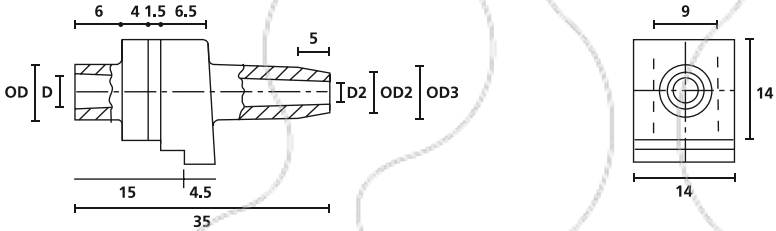
Strain protection grommets



H125/H126



H119



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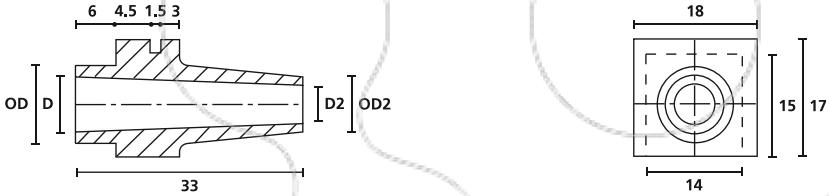

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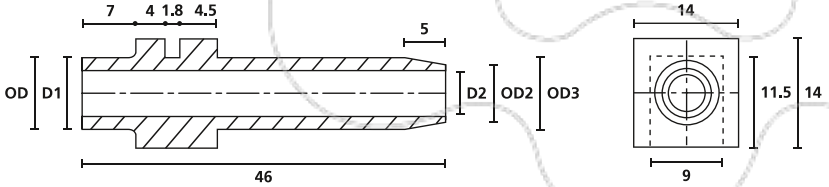
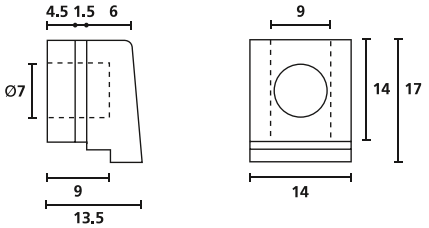


H321



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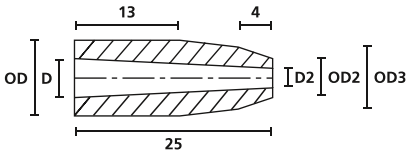


H3A

Date of issue: 10/2017

For apertures

Edge protection grommets

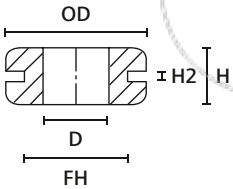
Edge protection grommets are used wherever cable and wires are routed through apertures. HellermannTyton grommets offer excellent mechanical protection.

Features and benefits

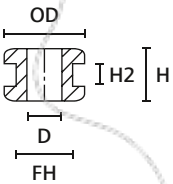
- Protects cables from sharp edges
- Provides additional strain relief
- Flexible and easy to apply
- High resistance to chemicals and environmental influences

Edge protection grommets.

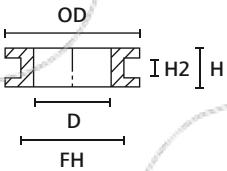
MATERIAL	Polyvinylchloride (PVC)	Polyvinylchloride, flame retardant (PVC-FR)
Operating Temperature	-30 °C to +60 °C	
Shore Hardness A	70±5	55±5
Flammability	UL94 HB	UL94 V0
	RoHS ✓	RoHS ✓



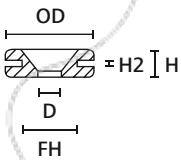
HV1101



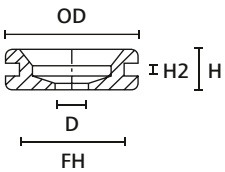
HV1201 to HV1218



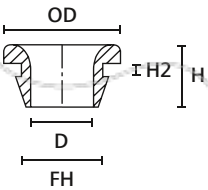
HV1301 to HV1305



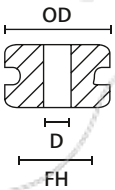
HV1401



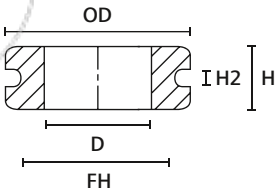
HV1402



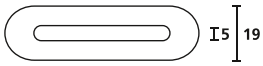
HV1502 to OP1503



HV1606 to HV1608



HV1606 to HV1608



HV1606 to HV1608

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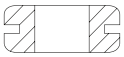
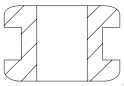
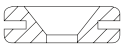
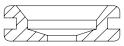
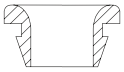
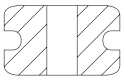
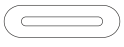
For aperatures

Edge protection grommets

TYPE	Drawing	Outside Ø (OD)	Hole Ø (FH)	Ø (D)	Height (H)	Height (H2)	Material	Colour	Pack Cont.	Article-No.
HV1101		25.5	19.0	12.0	10.0	1.6	PVC-FR	Black (BK)	500 pcs.	633-01010
HV1212		9.0	6.0	4.0	7.0	1.0	PVC-FR	Black (BK)	2,000 pcs.	633-02120
HV1201		9.5	6.4	4.0	5.6	1.6	PVC-FR	Black (BK)	2,000 pcs.	633-02010
HV1201B		9.5	6.4	4.0	6.5	2.5	PVC-FR	Black (BK)	2,000 pcs.	633-02020
HV1215		10.0	8.0	6.0	5.0	1.0	PVC-FR	Black (BK)	2,000 pcs.	633-02150
HV1209		11.0	9.0	4.0	5.5	1.5	PVC-FR	Black (BK)	1,000 pcs.	633-02090
HV1208		14.0	9.5	8.0	8.0	1.5	PVC-FR	Black (BK)	1,000 pcs.	633-02080
HV1207		14.0	10.0	6.0	6.4	1.5	PVC-FR	Black (BK)	1,000 pcs.	633-02070
HV1218		14.0	10.0	6.0	9.0	4.0	PVC-FR	Black (BK)	1,000 pcs.	633-02180
HV1216		14.5	8.0	5.0	6.5	1.5	PVC-FR	Black (BK)	2,000 pcs.	633-02160
HV1210		15.0	9.0	6.0	10.5	2.0	PVC-FR	Black (BK)	1,000 pcs.	633-02100
HV1203		17.5	12.0	10.0	6.8	2.0	PVC-FR	Black (BK)	1,000 pcs.	633-02030
HV1204		17.5	12.0	10.0	8.8	4.0	PVC-FR	Black (BK)	1,000 pcs.	633-02040
HV1206		17.5	12.0	10.0	10.8	6.0	PVC-FR	Black (BK)	1,000 pcs.	633-02060
HV1205		17.5	13.5	10.0	8.7	4.0	PVC-FR	Black (BK)	1,000 pcs.	633-02050
HV1303		15.9	11.0	8.0	6.4	1.6	PVC-FR	Black (BK)	1,000 pcs.	633-03030
HV1301		15.9	11.0	8.0	7.0	1.0	PVC-FR	Black (BK)	1,000 pcs.	633-03010
HV1302		15.9	11.0	8.0	9.0	3.0	PVC-FR	Black (BK)	1,000 pcs.	633-03020
HV1304		15.9	11.0	8.0	10.8	6.0	PVC-FR	Black (BK)	1,000 pcs.	633-03040
HV1305		24.0	18.0	14.0	7.0	3.0	PVC-FR	Black (BK)	500 pcs.	633-03050
		24.0	18.0	14.0	7.0	3.0	PVC-FR	White (WH)	500 pcs.	633-03059
HV1401		15.9	9.5	5.0	4.8	0.8	PVC-FR	Black (BK)	1,000 pcs.	633-04010
HV1402		23.0	18.5	6.0	7.0	2.0	PVC-FR	Black (BK)	1,000 pcs.	633-04020
HV1502		11.5	8.0	6.5	8.0	1.5	PVC	Black (BK)	2,000 pcs.	633-05020
HV1606		31.0	25.0	17.0	11.0	3.0	PVC-FR	Grey (GY)	500 pcs.	633-06068
HV1607		43.0	37.0	29.0	11.0	3.0	PVC-FR	Grey (GY)	250 pcs.	633-06078
HV1608		58.0	52.0	44.0	11.0	3.0	PVC-FR	Grey (GY)	250 pcs.	633-06088

All dimensions in mm. Subject to technical changes.

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Bend and edge protection grommet set

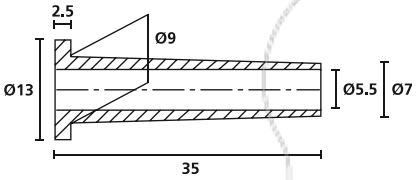
HOT Kit

The practical mix of grommets for construction, repairs and home improvement.

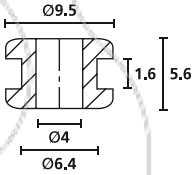
Features and benefits

- Flexible and easy to apply
- High resistance to chemicals and environmental influences

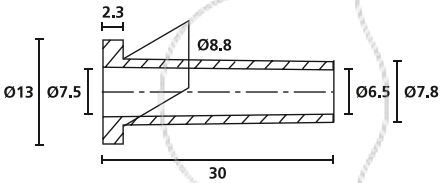
Small, but practical - the HOT Grommet Kit.



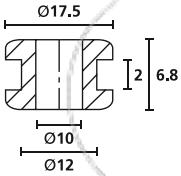
HV2101



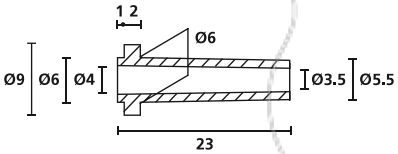
HV1201



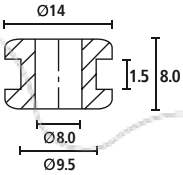
HV2210



HV1203



HV2213



HV1208

Description	Type	Content	Article-No.	Page
Bend and edge protection grommet set	**HOT Kit**	**-**	**639-60000**	**-**
Bend Protection Grommets	HV2101	15	632-01010	376
	HV2210	15	632-02100	376
	HV2213	20	632-02130	376
Edge Protection Grommets	HV1201	20	633-02010	381
	HV1203	15	633-02030	381
	HV1208	15	633-02080	381

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

Date of issue: 10/2017

HellermannTyton
www.HellermannTyton.com

HelaGuard Flexible Conduits and Fittings

For more information on our complete HelaGuard range of non-metallic and metallic conduits and fittings, please see our new HelaGuard catalogue.

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