



3.1 Non-Metallic Conduit Systems

Non-Metallic Conduits	
HG-SW PA6 Standard	368
HG-LW PA6 Light	369
HG-FR PA6 Flame Retardant	370
HG-DC PA6 Double Slit	371
Fittings for Non-Metallic Conduits	
Fixed external thread	HG-S, Straight, IP66 372, 373 HG-90, 90° Elbow, IP66 374, 375



3.2 Metallic Conduit Systems

Metallic Conduits	
SC galvanised steel conduit	376
SSC stainless steel conduit	377
Fittings for Metallic Conduits	
SC-FM fixed external thread, IP40	378
Metallic Conduits with Plastic Coating	
PCS galvanised steel, PVC coating	379
Fittings for Metallic Conduits with Plastic Coating	
PCS-FM fixed external thread, IP54	380
PCS-FMC compression fitting, fixed thread, IP65	381
Metallic Conduits with Liquid-Tight Cover	
LTS galvanised steel, PVC cover	382
Fittings for Metallic Conduits with Liquid-Tight Cover	
LTS-FMC compression fitting, fixed thread, IP68	383



3.3 Spiral-Reinforced Conduit Systems

Spiral-Reinforced PVC Conduits	
PSR smooth bore	384
Fittings for Spiral-Reinforced PVC Conduits	
PSR-S fixed external thread, IP65-IP67	385
PSR-90 fixed external thread, 90° elbow, IP65-IP67	386
FlexiGuard Conduits and Fittings	
FG PVC conduit, steel wire spiral-reinforced	387
FG IP54 fitting, swivel thread	388
FG-UH IP54 fitting with mounting bracket	389



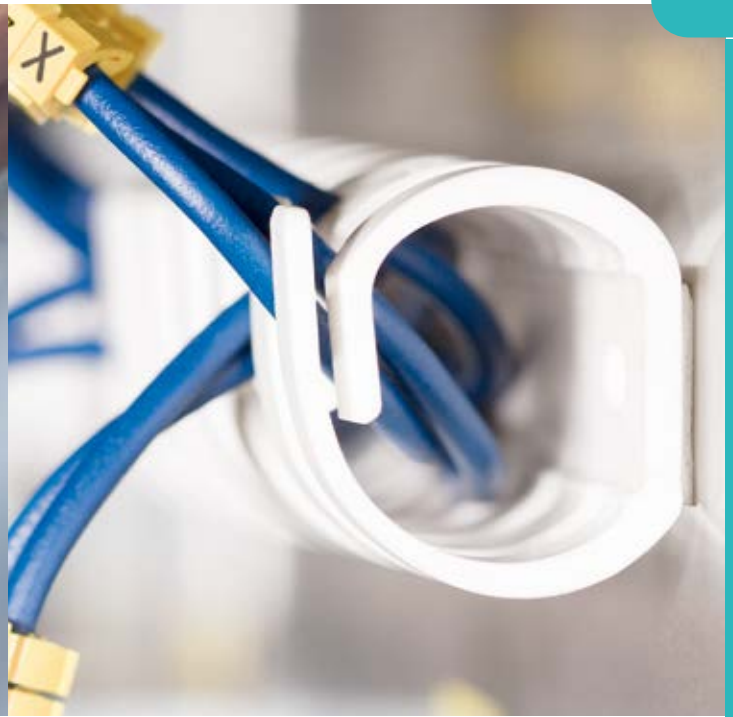
3.4 Conduit System Accessories

HelaGuard Accessories	
Conduit Clips	PACC for corrugated conduits 390 AFCS plated steel and PVC liner 391



3.5 Protective Tubing and Spiral Binding

Helawrap Cable Cover and Accessories	
HWPP in polypropylene	392, 393, 394
Helawrap in polyamide 6, UL94 V0	395
Helawrap HWPPMC with metal-content	396
HWClips	397
HWBase	398
HAT application tool	399
Spiral Binding	
SBPE standard polyethylene	400
SBPEFR polyethylene, flame-retardant	401
SBPA standard polyamide 6	402
SBPAV0 polyamide 6, flame-retardant	403
SBPTFE, PTFE	404
SBPEMC metal-content spiral binding	405
SBPPHDR polypropylene, high abrasion-resistant, narrow pitch	406
SBPPHDF polypropylene, high abrasion-resistant, wide pitch	407



3.6 Protective Sleeves

Expandable Braided Sleeves	
HEGP standard polyester	408
HEGPX high-expansion polyester	409
HEGPETFR polyester, flame-retardant	410
HEGPETFRX high-expansion polyester flame-retardant	411
HEGPA66 polyamide 6.6, abrasion-resistant	412
HEGPL polyester, light weight	413
HLB polyester, in dispenser boxes	414
HEGMAN non-flammable meta-aramid	415
HEGMANWO non-flammable meta-aramid, water and oil-resistant	416
Open Woven Sleeves	
Twist-In self-closing polyester sleeving	417
Twist-In-FR self-closing polyester sleeving, flame-retardant	418
Twist-In-EMIZ self-closing sleeving, EMI shielding	419
Twist-In-RR self-closing sleeving, rodent repellent	420
HELAHOOK re-closable polyester sleeving with hook-and-loop seal	421
Burst Protective Sleeves	
HEGWS	422
Electromagnetic Shielding Sleeves	
HEGEMIP electromagnetic protection	423
HEGEMIP-HY electromagnetic protection for hybrid automobiles	424
HEGEMIP-VG electromagnetic protection for defence applications	425



3.7 Wiring Ducts

Rigid PVC Wiring Ducts	
HelaDuct HTWD-PN for small-diameter wires (metric sizes)	426, 427
HelaDuct HTWD-PW for large-diameter wires (metric sizes)	428, 429
HelaDuct HTWD-PD (DIN-sizes)	430, 431
Halogen-Free Wiring Ducts	
HelaDuct HTWD-HF (metric sizes)	432, 433

Wiring Ducts Accessories

For mounting prior to wiring	HelaDuct HTWD-BWR Base Wire Retainers	435
For mounting to duct fingers	HelaDuct HTWD-NFWR and HTWD-WFWR Wire Retainers	436
For fastening components to base of ducts	HelaDuct HTWD-CTH	437
For installing wiring ducts into fixing holes	HelaDuct HTWD-R4 and HTWD-R6 Rivets	438
For inserting R4 and R6 rivets	HelaDuct HTWD-RT4 and HTWD-RT6 Rivet Tools	439



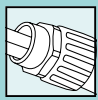
3.8 Edge Protection

Grommet Strip	
Flexiform G51P polyester edge protection	440
Flexiform G51T PTFE edge protection	441
Flexiform G51N polyamide 6 edge protection	441
Beading	
EdgeGuard PS1, SM1, RA1	442



3.9 Grommets

Grommets	
Push-on Caps	443
Elbow grommets	444
Bend Protection Grommets	445, 446
Strain Relief Grommets	447
Edge Protection Grommets	448, 449
Hot Grommet Kit	450



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.

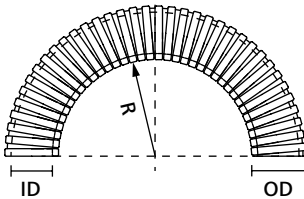
Features and benefits

- 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
- Self-extinguishing according to UL94 V2
- Colour: black, 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	UL 94 V2



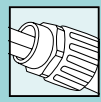
HelaGuard non-metallic conduit

TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
HG-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.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Non-Metallic Conduits

HG-LW PA6 Light Weight

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

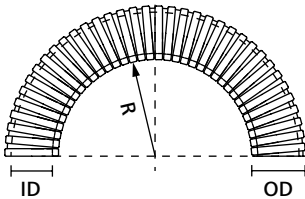
Features and benefits

- 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 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	EN IEC 61386



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.



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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.

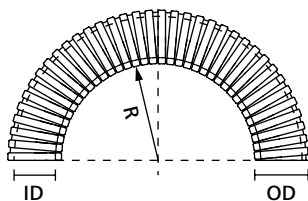
Features and benefits

- 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



HelaGuard HG-FR offers excellent fire protection properties.

MATERIAL	Polyamide 6, flame retardant (PA6FR)
Operating Temperature	-40 °C to +120 °C
Operating Temperature Moving	-20 °C to +100 °C
Flammability	UL 94 V0



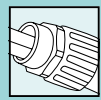
HelaGuard non-metallic conduit

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
HG-FR67	67	56	67.2	56.3	130	365 g/m	10 m	Black (BK)	166-11410

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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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

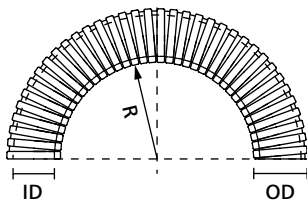
- Can be opened and closed repeatedly
- Cables can be inserted laterally
- Abrasion resistant
- Free of halogen, sulphur and phosphorus
- Colour: black



HelaGuard HG-DC double slit conduit.

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

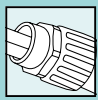
MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +120 °C
Flammability	UL 94 HB



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	5.7	70	37 g/m	50 m	Black (BK)	166-11800
HG-DC13	13	10	12.9	7.9	75	46 g/m	50 m	Black (BK)	166-11801
HG-DC16	16	12	16.2	10.0	100	72 g/m	50 m	Black (BK)	166-11802
HG-DC21	21	17	21.0	13.7	120	110 g/m	50 m	Black (BK)	166-11803
HG-DC28	28.4	23	28.4	19.8	170	166 g/m	50 m	Black (BK)	166-11804
HG-DC34	34.2	29	34.2	25.0	180	180 g/m	25 m	Black (BK)	166-11805
HG-DC42	43.5	36	43.5	32.3	200	293 g/m	25 m	Black (BK)	166-11806
HG-DC54	53.3	48	53.3	44.0	240	400 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.



Fittings with fixed external thread

HG-S Straight fitting, IP66

Straight external thread.

Features and benefits

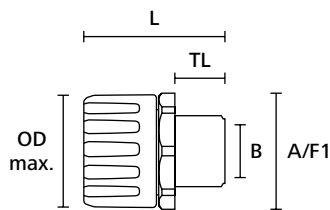
- One piece, fast fit
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Metric threads supplied with locknuts

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	UL 94 V2



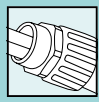
HelaGuard fitting, straight with fixed external thread

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	19.0	33.0	19.0	9.0	10 pcs.	Black (BK)	166-21000
HG10-S-M16	10	M16	9.5	19.0	35.0	19.0	11.0	10 pcs.	Black (BK)	166-21020
HG11-S-M12	11	M12	7.5	19.0	33.0	19.0	9.0	10 pcs.	Black (BK)	166-21021
HG13-S-M12	13	M12	7.5	24.0	35.0	23.0	9.0	10 pcs.	Black (BK)	166-21022
HG13-S-M16	13	M16	11.0	24.0	37.0	23.0	11.0	10 pcs.	Black (BK)	166-21001
HG13-S-M20	13	M20	12.5	24.0	40.0	23.0	14.0	10 pcs.	Black (BK)	166-21023
HG16-S-M16	16	M16	11.0	29.0	41.0	28.0	11.0	10 pcs.	Black (BK)	166-21002
HG16-S-M20	16	M20	14.5	29.0	34.0	28.0	14.0	10 pcs.	Black (BK)	166-21003
HG20-S-M20	20	M20	14.5	32.0	44.0	30.0	14.0	10 pcs.	Black (BK)	166-21025
HG21-S-M20	21	M20	14.5	32.0	44.0	30.0	14.0	10 pcs.	Black (BK)	166-21004
HG25-S-M25	25	M25	19.5	39.0	49.0	37.0	15.0	10 pcs.	Black (BK)	166-21026
HG28-S-M25	28	M25	19.5	44.0	49.0	42.0	15.0	10 pcs.	Black (BK)	166-21005
HG28-S-M32	28	M32	26.5	44.0	50.0	42.0	16.0	10 pcs.	Black (BK)	166-21027
HG34-S-M32	34	M32	26.5	51.0	53.0	49.0	16.0	10 pcs.	Black (BK)	166-21006

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Fittings with fixed external thread

HG-S Straight fitting, IP66

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.
HG34-S-M40	34	M40	32.5	51.0	53.0	49.0	16.0	10 pcs.	Black (BK)	166-21028
HG42-S-M40	42	M40	32.5	63.0	60.0	60.0	16.0	2 pcs.	Black (BK)	166-21007
HG42-S-M50	42	M50	40.5	63.0	60.0	60.0	16.0	2 pcs.	Black (BK)	166-21029
HG54-S-M50	54	M50	42.0	76.0	65.0	73.0	16.0	2 pcs.	Black (BK)	166-21008
HG54-S-M63	54	M63	53.0	76.0	65.0	73.0	16.0	2 pcs.	Black (BK)	166-21030
HG67-S-M63	67	M63	56.0	90.0	70.0	87.0	16.0	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.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Fittings with fixed external thread

HG-90 90° Elbow fitting, IP66

90° elbow external thread.

Features and benefits

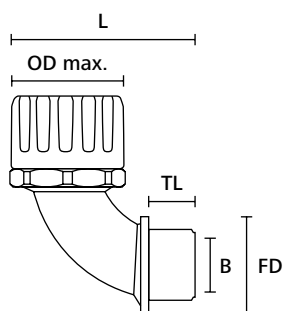
- One piece, fast fit
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Metric threads supplied with locknuts

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	UL 94 V2



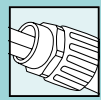
HelaGuard fitting, 90° with fixed internal thread

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	19.0	32.0	17.0	8.0	10 pcs.	Black (BK)	166-22200
HG11-90-M12	11	M12	6.5	19.0	32.0	17.0	8.0	10 pcs.	Black (BK)	166-22220
HG13-90-M16	13	M16	10.5	24.0	46.0	22.0	11.0	10 pcs.	Black (BK)	166-22201
HG16-90-M16	16	M16	10.5	29.0	49.0	22.0	11.0	10 pcs.	Black (BK)	166-22202
HG16-90-M20	16	M20	14.0	29.0	51.0	27.0	13.0	10 pcs.	Black (BK)	166-22203
HG21-90-M20	21	M20	14.0	32.0	53.0	27.0	13.0	10 pcs.	Black (BK)	166-22204
HG25-90-M25	25	M25	19.0	39.0	63.0	32.0	15.0	10 pcs.	Black (BK)	166-22222
HG28-90-M25	28	M25	19.0	44.0	66.0	32.0	15.0	10 pcs.	Black (BK)	166-22205
HG34-90-M32	34	M32	24.5	51.0	75.0	40.0	16.0	10 pcs.	Black (BK)	166-22206
HG42-90-M40	42	M40	32.5	63.0	98.0	50.0	16.0	2 pcs.	Black (BK)	166-22207
HG42-90-M50	42	M50	39.0	63.0	99.0	60.0	16.0	2 pcs.	Black (BK)	166-22223

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Fittings with fixed external thread

HG-90 90° Elbow fitting, IP66

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.
HG54-90-M50	54	M50	39.0	76.0	104.0	60.0	16.0	2 pcs.	Black (BK)	166-22208
HG54-90-M63	54	M63	49.5	76.0	104.0	72.0	16.0	2 pcs.	Black (BK)	166-22224
HG67-90-M63	67	M63	49.5	90.0	120.0	72.0	16.0	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.



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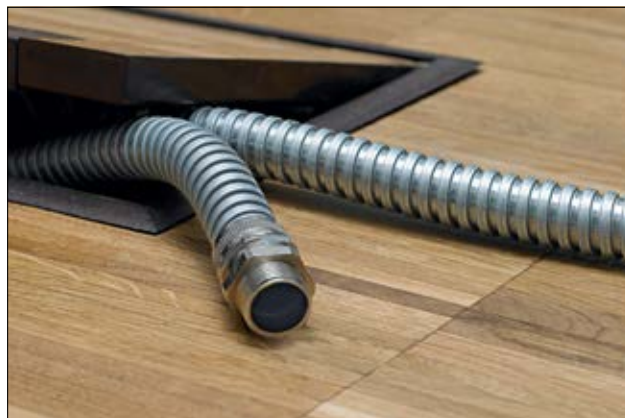
Metallic conduits

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.

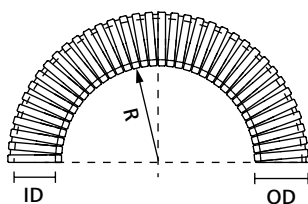
Features and benefits

- High compression, tensile and impact strength
- Very flexible



HelaGuard SC Galvanised Steel Conduit.

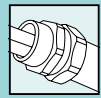
MATERIAL	Galvanised Steel (GS)
Operating Temperature	-100 °C to +300 °C



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	50 m	Metal (ML)	166-30100
SC12	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	25 m	Metal (ML)	166-30102
SC20	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	25 m	Metal (ML)	166-30104
SC32	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	25 m	Metal (ML)	166-30106
SC50	50	53.2	48.4	90	802 g/m	25 m	Metal (ML)	166-30107

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



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

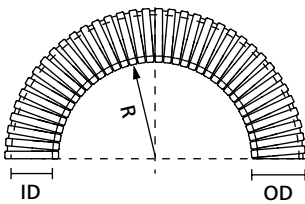
- Highly resistant to rust and corrosion
- High compression, tensile and impact strength
- Very flexible



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

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

MATERIAL	Stainless Steel (SS316)
Operating Temperature	-100 °C to +600 °C



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.



Fittings for metallic conduits

SC-FM Fixed external thread, IP40

Fixed external thread, nickel plated brass.

Features and benefits

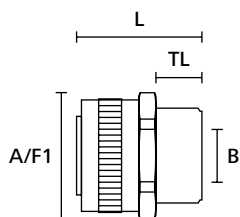
- Multi-part fitting of shell and body with external thread
- Provides tight, reliable hold of conduit
- Can be secured with locknut

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



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	13.0	7.0	10 pcs.	Metal (ML)	166-30300
SC12-FM-M16	12	M16	8.5	23.0	17.0	10.0	10 pcs.	Metal (ML)	166-30301
SC16-FM-M16	16	M16	11.5	25.0	20.0	10.0	10 pcs.	Metal (ML)	166-30302
SC16-FM-M20	16	M20	11.5	25.0	22.0	10.0	10 pcs.	Metal (ML)	166-30303
SC20-FM-M20	20	M20	15.3	26.3	24.0	10.0	10 pcs.	Metal (ML)	166-30304
SC25-FM-M25	25	M25	19.1	29.5	29.0	10.0	10 pcs.	Metal (ML)	166-30305
SC32-FM-M32	32	M32	26.2	36.8	36.0	13.0	2 pcs.	Metal (ML)	166-30306
SC40-FM-M40	40	M40	34.6	39.0	48.0	14.0	2 pcs.	Metal (ML)	166-30307
SC50-FM-M50	50	M50	44.7	42.0	58.0	15.0	1 pc.	Metal (ML)	166-30308

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



Metallic conduits with plastic coating

PCS Galvanised steel conduit, PVC coating

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

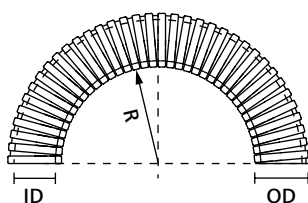
Features and benefits

- 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



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	50 m	Black (BK)	166-30700
PCS12	12	14.2	10.2	30	143 g/m	50 m	Black (BK)	166-30701
PCS16	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	25 m	Black (BK)	166-30703
PCS25	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	25 m	Black (BK)	166-30705
PCS40	40	44.2	37.6	80	719 g/m	25 m	Black (BK)	166-30706
PCS50	50	55.0	48.4	90	1052 g/m	25 m	Black (BK)	166-30707
PCS63	63	64.5	57.5	115	1091 g/m	10 m	Black (BK)	166-30708
PCS75	75	79.2	70.0	150	1459 g/m	10 m	Black (BK)	166-30709

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



Fittings for metallic conduits with plastic coating

PCS-FM Fixed external thread, IP54

Fixed external thread, nickel plated brass.

Features and benefits

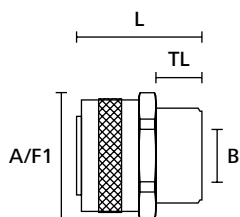
- Two-part fitting of shell and body with external thread
- Provides tight, reliable hold of conduit
- Can be secured with locknut

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.

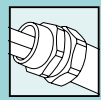
MATERIAL	Nickel Plated Brass (NPB)
Operating Temperature	-100 °C to +300 °C



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	13.0	8.0	10 pcs.	Metal (ML)	166-31000
PCS12-FM-M16	12	M16	8.5	23.0	17.0	8.0	10 pcs.	Metal (ML)	166-31001
PCS16-FM-M16	16	M16	11.5	25.0	20.0	10.0	10 pcs.	Metal (ML)	166-31002
PCS16-FM-M20	16	M20	11.5	25.0	22.0	10.0	10 pcs.	Metal (ML)	166-31003
PCS20-FM-M20	20	M20	15.3	26.3	24.0	10.0	10 pcs.	Metal (ML)	166-31004
PCS25-FM-M25	25	M25	19.1	32.5	29.0	10.0	10 pcs.	Metal (ML)	166-31005
PCS32-FM-M32	32	M32	26.2	36.8	36.0	13.0	2 pcs.	Metal (ML)	166-31006
PCS40-FM-M40	40	M40	34.6	39.0	48.0	14.0	2 pcs.	Metal (ML)	166-31007
PCS50-FM-M50	50	M50	44.7	42.0	58.0	15.0	1 pc.	Metal (ML)	166-31008
PCS63-FM-M63	63	M63	54.5	50.0	70.0	18.0	1 pc.	Metal (ML)	166-31009
PCS75-FM-M75	75	M75	66.5	60.0	84.0	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.



Fittings for metallic conduits with plastic coating

PCS-FMC Fixed thread compression fitting, IP65

External thread, nickel plated brass.
Fulfils IP65.

Features and benefits

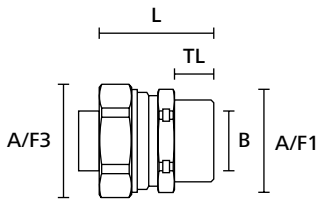
- Multipart compression fitting including elastomeric seal
- Provides excellent tensile strength
- Can be used for knockouts or threaded entries as fitting rotates until tightened



HeliaGuard PCS-FMC Compression Fitting.

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

MATERIAL	Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)	Nickel Plated Brass (NPB), Polyamide 6 (PA6)
Operating Temperature	-50 °C to +135 °C	



HeliaGuard 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	20.0	20.0	10.0	10 pcs.	Metal (ML)	166-31400
PCS12-FMC-M16	12	M16	8.6	29.8	20.0	22.0	10.0	10 pcs.	Metal (ML)	166-31401
PCS16-FMC-M16	16	M16	11.5	33.0	24.0	26.0	12.0	10 pcs.	Metal (ML)	166-31402
PCS16-FMC-M20	16	M20	11.5	33.0	24.0	26.0	12.0	10 pcs.	Metal (ML)	166-31403
PCS20-FMC-M20	20	M20	15.3	33.5	26.0	29.0	12.0	10 pcs.	Metal (ML)	166-31404
PCS25-FMC-M25	25	M25	19.1	40.5	33.0	35.0	14.0	10 pcs.	Metal (ML)	166-31405
PCS32-FMC-M32	32	M32	26.0	45.8	40.0	42.0	15.0	2 pcs.	Metal (ML)	166-31406
PCS40-FMC-M40	40	M40	34.6	47.5	56.0	58.0	16.0	2 pcs.	Metal (ML)	166-31407
PCS50-FMC-M50	50	M50	44.7	51.0	70.0	70.0	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.



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

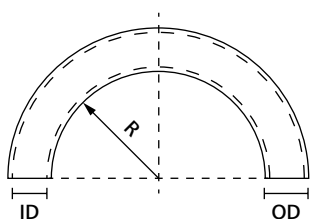
- Liquid-tight (IP68 and IP69k with LTS fittings)
- High compression, tensile and impact strength
- Good flexibility
- Smooth outer cover does not wrinkle when bent
- Good resistance to acids, petrol, oils and greases
- Suitable for outdoor use



HelaGuard LTS.

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

RoHS



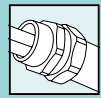
HelaGuard liquid-tight metallic conduit, plastic coating

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	1240 g/m	25 m	Black (BK)	166-31907
LTS63	63	2 "	59.7	51.6	280	1470 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.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



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

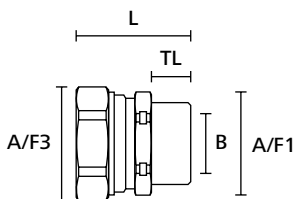
- Multipart compression fitting including elastomeric seal
- Provides excellent tensile strength
- Can be used for knockouts or threaded entries as fitting rotates until tightened



HeloGuard LTS-FMC Compression Fitting.

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

MATERIAL	Nickel Plated Brass (NPB), Polyamide 6 (PA6)
Operating Temperature	-50 °C to +135 °C



HeloGuard 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	20.0	20.0	10.0	10 pcs.	Metal (ML)	166-32200
LTS10-FMC-M16	10	M16	5.6	29.8	20.0	20.0	10.0	10 pcs.	Metal (ML)	166-32201
LTS12-FMC-M16	12	M16	8.6	29.8	20.0	22.0	10.0	10 pcs.	Metal (ML)	166-32203
LTS16-FMC-M16	16	M16	10.7	33.0	24.0	26.0	12.0	10 pcs.	Metal (ML)	166-32204
LTS16-FMC-M20	16	M20	10.7	33.0	24.0	26.0	12.0	10 pcs.	Metal (ML)	166-32205
LTS20-FMC-M20	20	M20	14.5	33.5	26.0	29.0	12.0	10 pcs.	Metal (ML)	166-32206
LTS25-FMC-M25	25	M25	18.0	40.5	33.0	35.0	14.0	10 pcs.	Metal (ML)	166-32207
LTS32-FMC-M32	32	M32	24.6	45.8	40.0	42.0	15.0	2 pcs.	Metal (ML)	166-32208
LTS40-FMC-M40	40	M40	32.7	47.5	50.0	52.0	16.0	1 pc.	Metal (ML)	166-32209
LTS50-FMC-M50	50	M50	37.7	53.0	58.0	58.0	18.0	1 pc.	Metal (ML)	166-32210
LTS63-FMC-M63	63	M63	49.0	58.8	70.0	70.0	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.



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

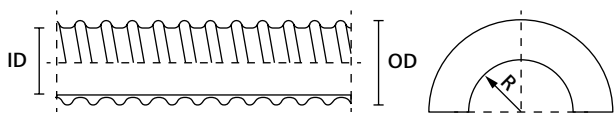
- Extremely flexible
- Withstands torsional movement
- Self-extinguishing
- Easy to feed cables into conduit
- Can be used with PSR fittings
- Colour: grey; black, green (oil resistant), blue (high temperature resistant) or orange (highly flexible) upon request

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



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

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



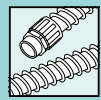
HelaGuard spiral reinforced conduit

TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø (ID)	Min. Bending Radius (R)	Weight	Reel Length	Colour	Article-No.
PSR12	12	14.5	10.0	25	71 g/m	30 m	Grey (GY)	166-40001
PSR16	16	16.5	12.0	25	76 g/m	30 m	Grey (GY)	166-40002
PSR20	20	21.0	16.0	35	112 g/m	30 m	Grey (GY)	166-40003
PSR25	25	27.5	22.0	45	153 g/m	30 m	Grey (GY)	166-40004
PSR32	32	33.5	28.0	60	327 g/m	30 m	Grey (GY)	166-40005
PSR40	40	41.0	35.0	80	448 g/m	30 m	Grey (GY)	166-40006
PSR50	50	46.4	40.0	105	725 g/m	30 m	Grey (GY)	166-40007
PSR63	63	57.0	50.0	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.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



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

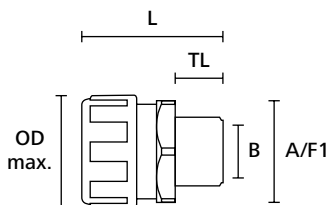
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Metric threads supplied with locknuts
- Fits both PSR and PSRSC conduits



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	UL 94 V2



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	24.0	38.0	23.0	11.0	10 pcs.	Grey (GY)	166-40701
PSR16-S-M16	16	M16	10.5	28.0	40.0	25.0	11.0	10 pcs.	Grey (GY)	166-40702
PSR16-S-M20	16	M20	10.5	28.0	41.0	25.0	14.0	10 pcs.	Grey (GY)	166-40703
PSR20-S-M20	20	M20	14.5	33.0	43.0	30.0	14.0	10 pcs.	Grey (GY)	166-40704
PSR25-S-M25	25	M25	19.0	42.0	45.0	37.0	15.0	10 pcs.	Grey (GY)	166-40705
PSR32-S-M32	32	M32	24.5	48.0	48.0	45.0	16.0	10 pcs.	Grey (GY)	166-40706
PSR40-S-M40	40	M40	33.0	60.0	59.0	60.0	16.0	2 pcs.	Grey (GY)	166-40707
PSR50-S-M50	50	M50	39.0	64.0	55.0	60.0	16.0	2 pcs.	Grey (GY)	166-40708
PSR63-S-M63	63	M63	48.0	76.0	56.0	73.0	16.0	1 pc.	Grey (GY)	166-40709

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



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

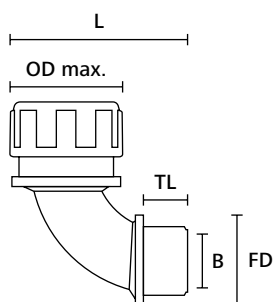
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Metric threads supplied with locknuts
- Fits both PSR and PSRSC conduits



PSR-90 90° Elbow.

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	UL 94 V2



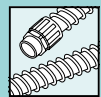
HelaGuard fitting, 90° with fixed external thread

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	28.0	49.0	22.0	11.0	10 pcs.	166-40801
PSR16-90-M20	16	M20	10.5	28.0	51.0	27.0	13.0	10 pcs.	166-40802
PSR20-90-M20	20	M20	14.5	33.0	52.0	27.0	13.0	10 pcs.	166-40803
PSR25-90-M25	25	M25	19.0	42.0	63.0	33.0	15.0	10 pcs.	166-40804
PSR32-90-M32	32	M32	24.5	48.0	74.0	40.0	16.0	2 pcs.	166-40805
PSR40-90-M40	40	M40	33.0	60.0	113.0	50.0	16.0	2 pcs.	166-40806

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



FlexiGuard conduits and fittings

PVC Conduits with steel wire spiral-reinforcement

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

Features and benefits

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

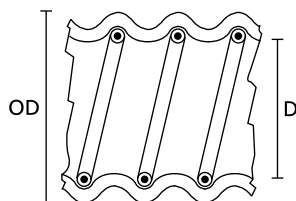


FlexiGuard FG with FG-UH fitting.

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

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

RoHS



FlexiGuard

TYPE	Nominal Ø	Inside Ø (ID)	Outside Ø (OD)	Min. Bending Radius (R)	Reel Length	Colour	Article-No.
FG14	14	10.0	14.0	14	10 m	Grey (GY)	167-00209
FG17	17	13.0	17.0	17	10 m	Grey (GY)	167-00211
FG19	19	15.0	19.0	19	10 m	Grey (GY)	167-00213
FG21	21	16.0	21.0	21	10 m	Grey (GY)	167-00216
FG27	27	21.0	27.0	27	10 m	Grey (GY)	167-00221
FG36	36	30.0	36.0	36	10 m	Grey (GY)	167-00229
FG45	45	38.0	45.0	45	10 m	Grey (GY)	167-00236
FG56	56	48.0	56.0	56	10 m	Grey (GY)	167-00248

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



Fittings for FlexiGuard spiral-reinforced PVC Conduits

FG straight fitting with swivel thread, IP54

Straight swivel external thread.
Fulfils IP54 with FlexiGuard FG conduits.

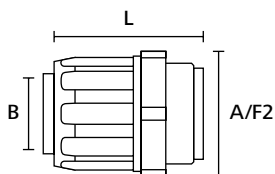
Features and benefits

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



FG conduit fitting.

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



FlexiGuard fitting, straight with swivel thread

TYPE	Nominal Ø	Thread Size	Min. Bore Size (B)	Length (L)	A/F Thread (A/F2)	Colour	Pack Cont.	Article-No.
FG14-M16	14	M16	8.8	41.5	20.0	Grey (GY)	10 pcs.	167-00530
FG14-PG9	14	PG9	8.8	41.5	20.0	Grey (GY)	10 pcs.	167-00510
FG17-M20	17	M20	11.1	45.0	24.0	Grey (GY)	10 pcs.	167-00531
FG17-PG11	17	PG11	11.1	45.0	24.0	Grey (GY)	10 pcs.	167-00511
FG19-PG13	19	PG13	13.0	47.5	27.0	Grey (GY)	10 pcs.	167-00512
FG21-M25	21	M25	14.8	49.5	30.0	Grey (GY)	10 pcs.	167-00533
FG21-PG16	21	PG16	14.8	49.5	30.0	Grey (GY)	10 pcs.	167-00513
FG27-M32	27	M32	19.4	52.0	36.0	Grey (GY)	10 pcs.	167-00534
FG27-PG21	27	PG21	19.4	52.0	36.0	Grey (GY)	10 pcs.	167-00514
FG36-M40	36	M40	27.9	54.8	46.0	Grey (GY)	10 pcs.	167-00535
FG36-PG29	36	PG29	27.9	54.8	46.0	Grey (GY)	10 pcs.	167-00515
FG45-M50	45	M50	35.6	58.0	55.0	Grey (GY)	10 pcs.	167-00536
FG45-PG36	45	PG36	35.6	58.0	55.0	Grey (GY)	10 pcs.	167-00516
FG56-M63	56	M63	45.9	60.0	65.0	Grey (GY)	10 pcs.	167-00537
FG56-PG48	56	PG48	45.9	60.0	65.0	Grey (GY)	10 pcs.	167-00517

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



Fittings for FlexiGuard spiral-reinforced PVC Conduits

FG-UH straight fitting with mounting bracket, IP54

Straight swivel bracket.
Fulfils IP54 with FlexiGuard FG conduits.

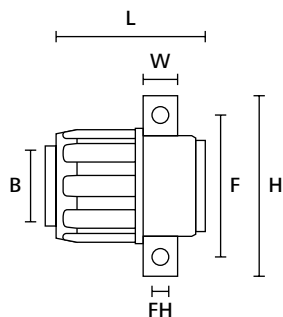
Features and benefits

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



FG-UH fitting with bracket.

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



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	41.5	10.0	40.0	5.7	29.0	Grey (GY)	10 pcs.	167-00520
FG17-UH	17	11.1	45.0	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	49.5	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	54.8	13.0	67.0	6.7	53.0	Grey (GY)	10 pcs.	167-00525
FG45-UH	45	35.6	58.0	14.0	79.5	6.7	65.0	Grey (GY)	10 pcs.	167-00526
FG56-UH	56	45.9	60.0	16.5	92.5	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.



HelaGuard accessories

PACC Clip for corrugated conduits

Corrugated tubes can be securely fastened with the PACC clamp.

Features and benefits

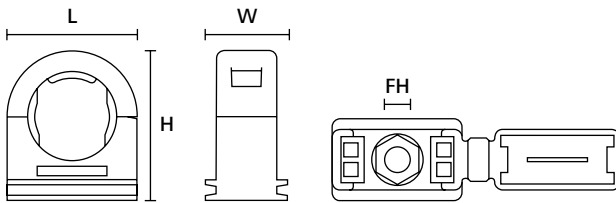
- Easy and quick assembly with non-metallic conduits
- Lid is integrated
- Hole for fastening with screw
- Inner rib prevents conduit from slipping

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



HelaGuard PACC Conduit Clip.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-50 °C to +135 °C
Flammability	UL 94 V2

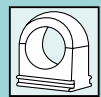


HelaGuard conduit clip, side views

HelaGuard conduit clip, top view

TYPE	Nominal Ø	Height (H)	Width (W)	Length (L)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
PACC10	10	26.0	12.0	23.0	M5	10 pcs.	Black (BK)	166-25707
PACC13	13	26.0	12.0	23.0	M5	10 pcs.	Black (BK)	166-25700
PACC16	16	30.0	12.0	26.0	M5	10 pcs.	Black (BK)	166-25701
PACC21	21	36.0	15.0	32.0	M6	10 pcs.	Black (BK)	166-25702
PACC28	28	45.0	15.0	41.0	M6	10 pcs.	Black (BK)	166-25703
PACC34	34	51.0	15.0	48.0	M6	10 pcs.	Black (BK)	166-25704
PACC42	42	60.0	15.0	57.0	M6	5 pcs.	Black (BK)	166-25705
PACC54	54	72.0	15.0	70.0	M6	5 pcs.	Black (BK)	166-25706

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



HelaGuard accessories

AFCS Fixing clip, plated steel and PVC liner

The AFCS clip is used to secure metallic conduits.

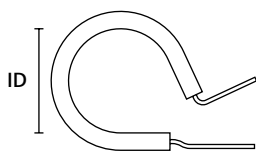
Features and benefits

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

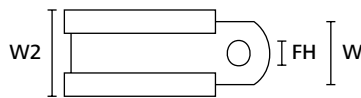


HelaGuard AFCS Fixing Clip, Galvanised Steel and PVC Liner.

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



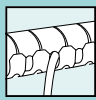
HelaGuard fixing clip, side view



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.



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

To order additional HAT application tools, see page 399.



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



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.

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

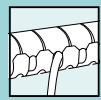


TYPE	Bundle Ø max.	Colour	Reel Length	Application Tool	Article-No.
HWPP8	9.0	Black (BK)	25 m	HAT8	161-64101
	9.0	Grey (GY)	25 m	HAT8	161-64102
	9.0	Silver (SR)	25 m	HAT8	161-64103
	9.0	White (WH)	25 m	HAT8	161-64104
HWPP16	16.0	Black (BK)	25 m	HAT16	161-64201
	16.0	Grey (GY)	25 m	HAT16	161-64202
	16.0	Silver (SR)	25 m	HAT16	161-64203
	16.0	White (WH)	25 m	HAT16	161-64207

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Helawrap cable cover

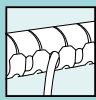
HWPP for industrial applications

TYPE	Bundle Ø max.	Colour	Reel Length	Application Tool	Article-No.
HWPP20	21.0	Black (BK)	25 m	HAT20	161-64301
	21.0	Grey (GY)	25 m	HAT20	161-64302
	21.0	Silver (SR)	25 m	HAT20	161-64303
	21.0	White (WH)	25 m	HAT20	161-64304
HWPP25	27.0	Black (BK)	25 m	HAT25	161-64401
	27.0	Grey (GY)	25 m	HAT25	161-64402
	27.0	Silver (SR)	25 m	HAT25	161-64403
	27.0	White (WH)	25 m	HAT25	161-64407
HWPP30	32.0	Black (BK)	25 m	HAT30	161-64501
	32.0	Grey (GY)	25 m	HAT30	161-64502
	32.0	Silver (SR)	25 m	HAT30	161-64503
	32.0	White (WH)	25 m	HAT30	161-64504
HWPP40	42.0	Black (BK)	15 m	HAT40	161-64601

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



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.

Features and benefits

- Ideal solution for bundling, protecting, mounting and routing 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 applicator tool included

To order additional HAT application tools, see page 399.

Complete set including application tool.



Helawrap - Office Desktop Cable Management.



Helawrap Cable Cover - HWPP - 2 m black.



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.



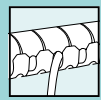
Simply slide the HAT applicator tool through the Helawrap cover.

TYPE	Bundle Ø max.	Colour	Length (L)	Application Tool	Article-No.
HWPP16L2	16.0	Black (BK)	2.0 m	HAT16	161-64204
	16.0	Grey (GY)	2.0 m	HAT16	161-64205
	16.0	Silver (SR)	2.0 m	HAT16	161-64206
	16.0	White (WH)	2.0 m	HAT16	161-64215
HWPP25L2	27.0	Black (BK)	2.0 m	HAT25	161-64404
	27.0	Grey (GY)	2.0 m	HAT25	161-64405
	27.0	Silver (SR)	2.0 m	HAT25	161-64406
	27.0	White (WH)	2.0 m	HAT25	161-64415

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



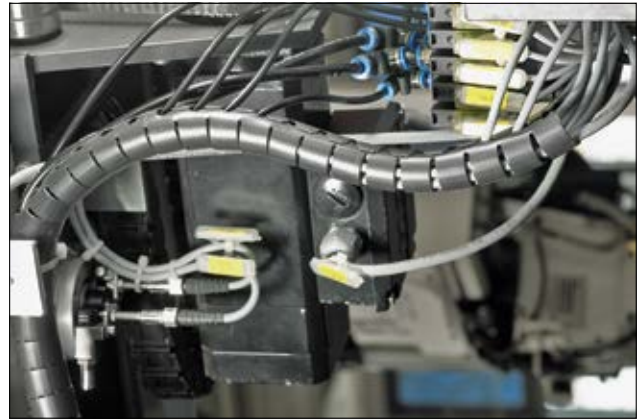
Helawrap cable cover

HWPAV0 flame-retardant and abrasion-resistant

Helawrap HWPAV0 is used to bundle and protect cable and wires, especially if 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.

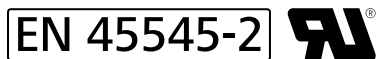
To order additional HAT application tools, see page 399.

MATERIAL	Polyamide 6 V0 (PA6V0)
Operating Temperature	-40 °C to +90 °C, intermittent +120 °C
Flammability	UL 94 V0

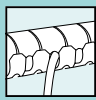


TYPE	Bundle Ø max.	Colour	Reel Length	Application Tool	Article-No.
HWPAV08	9.0	Black (BK)	25 m	HAT8	161-63101
HWPAV016	16.0	Black (BK)	25 m	HAT16	161-63201
HWPAV020	21.0	Black (BK)	25 m	HAT20	161-63301
HWPAV025	27.0	Black (BK)	25 m	HAT25	161-63401
HWPAV030	32.0	Black (BK)	25 m	HAT30	161-63501

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



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	UL 94 HB



To order additional HAT application tools, see page 399.

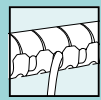
Can support quality assurance in the production of food stuffs, for example HACCP.

TYPE	Bundle Ø max.	Colour	Length (L)	Reel Length	Application Tool	Article-No.
HWPPMC8	9.0	Blue (BU)	25.0 m	25 m	HAT8	161-66000
HWPPMC16	16.0	Blue (BU)	25.0 m	25 m	HAT16	161-66100
HWPPMC20	21.0	Blue (BU)	25.0 m	25 m	HAT20	161-66200
HWPPMC25	27.0	Blue (BU)	25.0 m	25 m	HAT25	161-66300
HWPPMC30	32.0	Blue (BU)	25.0 m	25 m	HAT30	161-66400

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Accessories for Helawrap Cable Cover

HWClips

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

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

Features and benefits

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



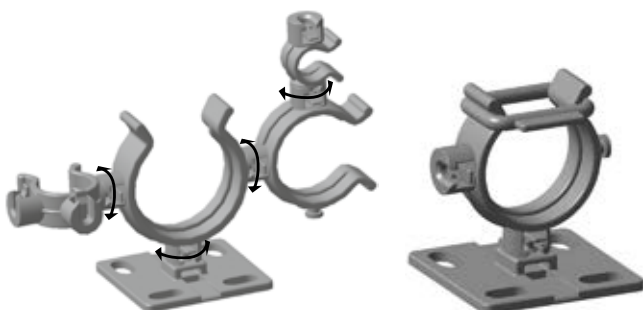
Helawrap self-adhesive and screw mount bases and clips.

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

HF ✓

RoHS ✓

RoHS ✓



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

Subject to technical changes.



Accessories for retaining Helawrap Open Cable Cover

HWBase

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

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

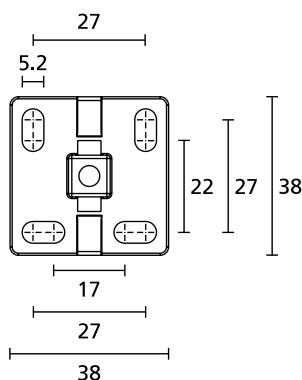
Features and benefits

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



Helawrap self-adhesive and screw mount bases and clips.

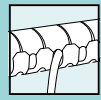
MATERIAL	Polyamide 6.6, high impact modified, heat stabilised (PA66HIRHS)
Operating Temperature	-40 °C to +105 °C
Flammability	UL 94 HB



Helawrap HWBase/HWBaseA

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

Subject to technical changes.



Helawrap applicator tool

HAT

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 Helawrap cable cover.

Features and benefits

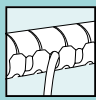
- Bundles cable rapidly and effortlessly
- Glides smoothly and securely through cover
- Easy insertion of cable



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.



PE General Purpose Spiral Binding

SBPE

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

Features and benefits

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



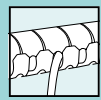
HellermannTyton SBPE Spiral Wrap.

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



TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPE1.5	1.5	0.80	6.0	1.6	8.0	Black (BK)	30 m	161-41001
	1.5	0.80	6.0	1.6	8.0	Grey (GY)	30 m	161-41002
	1.5	0.80	6.0	1.6	8.0	Natural (NA)	30 m	161-41000
SBPE4D	4	1.00	7.8	5.0	20.0	Black (BK)	5 m	161-41104
SBPE4	4	1.00	7.8	5.0	20.0	Black (BK)	30 m	161-41101
SBPE4D	4	1.00	7.8	5.0	20.0	Grey (GY)	5 m	161-41105
SBPE4	4	1.00	7.8	5.0	20.0	Grey (GY)	30 m	161-41102
SBPE4D	4	1.00	7.8	5.0	20.0	Natural (NA)	5 m	161-41103
SBPE4	4	1.00	7.8	5.0	20.0	Natural (NA)	30 m	161-41100
SBPE6D	6	1.20	10.0	7.5	40.0	Black (BK)	5 m	161-41153
SBPE6	6	1.20	10.0	7.5	40.0	Black (BK)	30 m	161-41151
SBPE6D	6	1.20	10.0	7.5	40.0	Grey (GY)	5 m	161-41155
SBPE6	6	1.20	10.0	7.5	40.0	Grey (GY)	30 m	161-41154
SBPE6D	6	1.20	10.0	7.5	40.0	Natural (NA)	5 m	161-41152
SBPE6	6	1.20	10.0	7.5	40.0	Natural (NA)	30 m	161-41150
SBPE9D	9	1.40	12.5	10.0	100.0	Black (BK)	5 m	161-41204
SBPE9	9	1.40	12.5	10.0	100.0	Black (BK)	30 m	161-41201
SBPE9D	9	1.40	12.5	10.0	100.0	Grey (GY)	5 m	161-41205
SBPE9	9	1.40	12.5	10.0	100.0	Grey (GY)	30 m	161-41202
SBPE9D	9	1.40	12.5	10.0	100.0	Natural (NA)	5 m	161-41203
SBPE9	9	1.40	12.5	10.0	100.0	Natural (NA)	30 m	161-41200
SBPE16	16	1.60	16.0	20.0	150.0	Black (BK)	30 m	161-41301
	16	1.60	16.0	20.0	150.0	Grey (GY)	30 m	161-41302
	16	1.60	16.0	20.0	150.0	Natural (NA)	30 m	161-41300

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



PE Flame-retardant Spiral Binding

SBPEFR

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

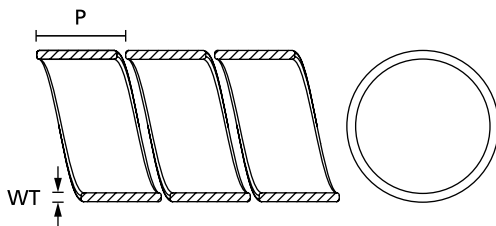
Features and benefits

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



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

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



Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPEFR1.5	1.5	0.80	6.0	1.6	8.0	Black (BK)	30 m	161-43001
	1.5	0.80	6.0	1.6	8.0	White (WH)	30 m	161-43000
SBPEFR4	4	1.00	7.8	5.0	20.0	Black (BK)	30 m	161-43101
	4	1.00	7.8	5.0	20.0	White (WH)	30 m	161-43100
SBPEFR6	6.0	0.80	10.0	7.5	40.0	Black (BK)	30 m	161-43151
	6.0	0.80	10.0	7.5	40.0	White (WH)	30 m	161-43150
SBPEFR9	9	1.40	12.5	10.0	100.0	Black (BK)	30 m	161-43201
	9	1.40	12.5	10.0	100.0	White (WH)	30 m	161-43200
SBPEFR16	16	1.60	16.0	20.0	150.0	Black (BK)	30 m	161-43301
	16	1.60	16.0	20.0	150.0	White (WH)	30 m	161-43300

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



PA Abrasion-resistant Spiral Binding

SBPA

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

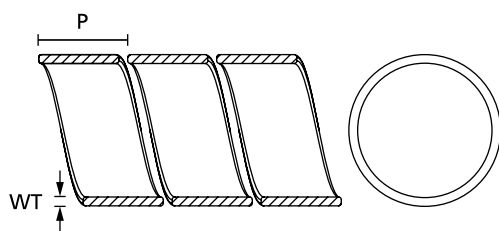
Features and benefits

- 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.

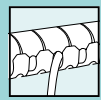
MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-60 °C to +95 °C
Flammability	UL 94 HB



Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPA1.5	1.5	0.40	6.0	1.6	8.0	Natural (NA)	30 m	161-42000
SBPA4	4	0.60	7.8	5.0	20.0	Natural (NA)	30 m	161-42100
SBPA6	6	0.80	10.0	7.5	40.0	Natural (NA)	30 m	161-42150
SBPA9	9	1.00	12.5	10.0	100.0	Natural (NA)	30 m	161-42200
SBPA16	16	1.20	16.0	20.0	150.0	Natural (NA)	30 m	161-42300

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



PA Flame-retardant 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.

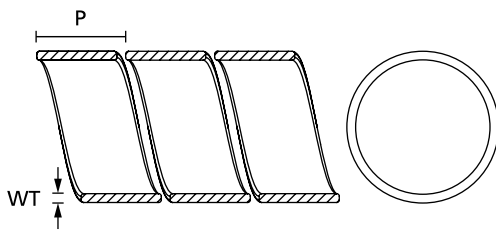
Features and benefits

- 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 +95 °C, intermittent +130 °C
Flammability	UL 94 V0



Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPAV01.5	1.5	0.40	6.0	1.6	8.0	Black (BK)	30 m	161-44000
SBPAV04	4	0.60	7.8	5.0	20.0	Black (BK)	30 m	161-44100
SBPAV06	6	0.80	10.0	7.5	40.0	Black (BK)	30 m	161-44150
SBPAV09	9	1.00	12.5	10.0	100.0	Black (BK)	30 m	161-44200
SBPAV016	16	1.20	16.0	20.0	150.0	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

Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



PTFE High temperature spiral binding

SBPTFE

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

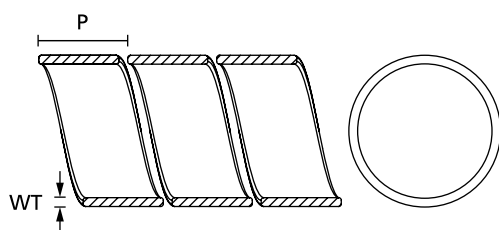
Features and benefits

- High temperature resistance
- Excellent fire protection
- Self-extinguishing according to UL94 V0
- Very good solvent and acid resistance
- Organises and protects cables and hoses
- Suitable for retro-fitting
- Cables branch out at any point



Spiral binding SBPTFE is ideal for extreme conditions.

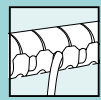
MATERIAL	Polytetrafluoroethylene (PTFE)
Operating Temperature	-60 °C to +260 °C, intermittent +350 °C
Flammability	UL 94 V0



Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPTFE1.5	1.5	0.50	6.0	1.6	8.0	Natural (NA)	5 m	161-45000
SBPTFE4	4	0.70	7.8	5.0	20.0	Natural (NA)	5 m	161-45100
SBPTFE9	9	1.00	12.5	10.0	100.0	Natural (NA)	5 m	161-45200

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



PE Metal Detectable Spiral Binding

SBPEMC

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

Features and benefits

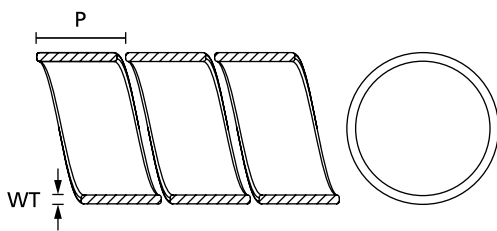
- High metal-content for reliable detection with standard detection equipment
- Stainless steel preserves resistance to corrosion
- Blue colour for enhanced visibility
- Ideal solution for bundling and protecting cables and hoses
- Highly flexible
- Suitable for retro-fitting
- Branching off cable at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



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

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

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



Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPEMC1.5	1.5	0.80	6.0	1.6	8.0	Blue (BU)	30 m	161-46000
SBPEMC4	4	1.00	7.8	5.0	20.0	Blue (BU)	30 m	161-46100
SBPEMC9	9	1.40	12.5	10.0	100.0	Blue (BU)	30 m	161-46200
SBPEMC16	16	1.60	16.0	20.0	150.0	Blue (BU)	30 m	161-46300

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



PP High Abrasion-resistant Narrow Pitch Spiral Binding

SBPPHDR

Spiral binding is used to route and bind cables that need high mechanical protection, for instance in the automobile industry as well as in control panels and cabinets. It is also used in electrical installation, where safety is a primary consideration. Spiral binding provides a tidy solution for many applications.

Features and benefits

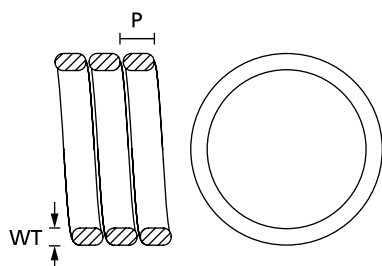
- For organising and protecting cables and hoses
- Heavy-walled and very robust
- Excellent protection from mechanical stress
- Very high abrasion resistance
- Very good resistance to oils
- Available in diameters up to 50 mm
- Ideal for larger cable bundles

More colours and sizes available on request.



SBPPHDR - Heavy Duty Round Spiral Wrap.

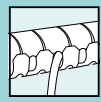
MATERIAL	Polypropylene (PP)
Operating Temperature	-30 °C to +100 °C
Flammability	UL 94 HB



Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Length (L)	Article-No.
SBPPHDR10	10	2.00	5.0	10.0	14.0	Black (BK)	1.0 m	162-30000
SBPPHDR15	15	2.50	5.0	15.0	20.0	Black (BK)	1.0 m	162-30100
SBPPHDR20	20	2.50	5.5	20.0	25.0	Black (BK)	1.0 m	162-30200
SBPPHDR25	25	2.50	6.0	25.0	30.0	Black (BK)	1.0 m	162-30300
SBPPHDR30	30	3.50	6.5	30.0	37.0	Black (BK)	1.0 m	162-30400
SBPPHDR35	35	3.50	6.5	35.0	42.0	Black (BK)	1.0 m	162-30500
SBPPHDR40	40	4.00	7.0	40.0	48.0	Black (BK)	1.0 m	162-30600
SBPPHDR50	50	4.50	8.0	50.0	59.0	Black (BK)	1.0 m	162-30700

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



PP High Abrasion-resistant Wide Pitch Spiral Binding

SBPPHDF

SBPPHDF 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

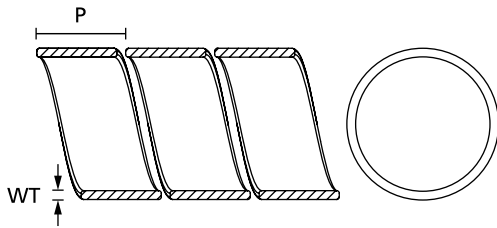
- For organising and protecting cables and hoses
- Heavy-walled and very robust
- Excellent protection from mechanical stress
- Very high abrasion resistance
- Very good resistance to oils
- Available in diameters up to 50 mm
- Ideal for larger cable bundles



SBPPHDF - Heavy Duty Flat Spiral Wrap.

More colours and sizes available on request.

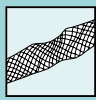
MATERIAL	Polypropylene (PP)
Operating Temperature	-30 °C to +100 °C
Flammability	UL 94 HB



Spiral binding

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Length (L)	Article-No.
SBPPHDF10	10	1.50	10.0	10.0	13.0	Black (BK)	1.0 m	162-31000
SBPPHDF15	15	1.50	13.0	15.0	18.0	Black (BK)	1.0 m	162-31100
SBPPHDF20	20	1.50	18.0	20.0	23.0	Black (BK)	1.0 m	162-31200
SBPPHDF25	25	2.00	19.0	25.0	29.0	Black (BK)	1.0 m	162-31300
SBPPHDF30	30	2.00	20.0	30.0	34.0	Black (BK)	1.0 m	162-31400
SBPPHDF35	35	2.00	20.0	35.0	39.0	Black (BK)	1.0 m	162-31500
SBPPHDF40	40	2.50	20.0	40.0	45.0	Black (BK)	1.0 m	162-31600
SBPPHDF50	50	3.00	22.0	50.0	56.0	Black (BK)	1.0 m	162-31700

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



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
Melting Point	+250 °C
Flammability	UL 94 V2, FMVSS 302



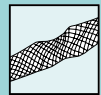
TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGP03	1.0	5.0	Black (BK)	200 m	45	170-10300
HEGP04	2.0	7.0	Black (BK)	200 m	45	170-10400
HEGP05	3.0	9.0	Black (BK)	200 m	45	170-10500
HEGP06	4.0	11.0	Black (BK)	100 m	45	170-10600
HEGP08	5.0	12.0	Black (BK)	100 m	45	170-10800
HEGP10	7.0	15.0	Black (BK)	100 m	45	170-11000
HEGP12	8.0	17.0	Black (BK)	100 m	45	170-11200
HEGP15	10.0	20.0	Black (BK)	100 m	45	170-11500
HEGP20	14.0	26.0	Black (BK)	50 m	45	170-12000
HEGP25	18.0	34.0	Black (BK)	50 m	45	170-12500
HEGP30	20.0	40.0	Black (BK)	50 m	45	170-13000
HEGP40	30.0	50.0	Black (BK)	50 m	45	170-14000
HEGP50	40.0	66.0	Black (BK)	50 m	45	170-15000

Recommended Tools: 45=HSG0. For more information on toolings please refer to the Application Tooling chapter on page 593.

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.

EN 45545-2 **ECE R-118**

Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



High-expansion polyester braided sleeving

Helagain HEGPX

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

Features and benefits

- Made of sturdy polyester
- Highly flexible
- High rate of expansion
- Easy to apply over irregular shapes
- Good abrasion resistance



HEGPX - Expandable abrasion protection sleeve.

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



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGPX06	3.0	9.0	Black (BK)	200 m	45	170-00060
HEGPX09	5.0	16.0	Black (BK)	100 m	45	170-00090
HEGPX12	6.0	19.0	Black (BK)	100 m	45	170-00120
HEGPX20	12.0	32.0	Black (BK)	100 m	45	170-00200
HEGPX30	19.0	45.0	Black (BK)	50 m	45	170-00300
HEGPX40	32.0	70.0	Black (BK)	50 m	45	170-00400

Recommended Tools: 45=HSG0. For more information on toolings please refer to the Application Tooling chapter on page 593.

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.

EN 45545-2



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Flame-retardant polyester braided sleeving

Helagaine HEGPETFR

This sleeve is particularly designed for abrasion protection of bundles of electrical cables. Helagaine HEGPETFR is therefore particularly recommended in applications such as public transport, aircraft industry, telecommunications, underground cables, etc.

Features and benefits

- Made of sturdy polyester
- Self-extinguishing
- Highly flexible
- Easy to apply over irregular shapes
- Good abrasion resistance



Helagaine HEGPETFR braided sleeving.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C
Melting Point	+250 °C



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Flammability	Tools	Article-No.
HEGPETFR04	3.0	7.0	Black with Grey Identification Yarn (BKIDGY)	200 m	FMVSS 302, Type B	45	170-81001
HEGPETFR05	4.0	9.0	Black with Grey Identification Yarn (BKIDGY)	200 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81002
HEGPETFR06	5.0	11.0	Black with Grey Identification Yarn (BKIDGY)	100 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81003
HEGPETFR08	7.0	13.0	Black with Grey Identification Yarn (BKIDGY)	100 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81004
HEGPETFR10	9.0	15.0	Black with Grey Identification Yarn (BKIDGY)	100 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81005
HEGPETFR12	11.0	17.0	Black with Grey Identification Yarn (BKIDGY)	100 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81006
HEGPETFR15	13.0	20.0	Black with Grey Identification Yarn (BKIDGY)	100 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81007
HEGPETFR20	18.0	25.0	Black with Grey Identification Yarn (BKIDGY)	50 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81008
HEGPETFR25	22.0	30.0	Black with Grey Identification Yarn (BKIDGY)	50 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81009
HEGPETFR30	27.0	40.0	Black with Grey Identification Yarn (BKIDGY)	50 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81010
HEGPETFR40	35.0	50.0	Black with Grey Identification Yarn (BKIDGY)	50 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81011
HEGPETFR50	45.0	60.0	Black with Grey Identification Yarn (BKIDGY)	50 m	FMVSS 302, Type B, UL 1441 VW-1	45	170-81012

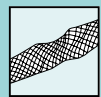
Recommended Tools: 45=HSG0. For more information on toolings please refer to the Application Tooling chapter on page 593.

All dimensions in mm. Subject to technical changes.

EN 45545-2



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Flame-retardant, high-expansion polyester braided sleeving

Helagaine HEGPETFRX

Helagaine HEGPETFRX is especially suitable for areas wherever fire protection is important as well as a higher expansion ratio of the braided sleeve. Helagaine HEGPETFRX offers superior cable protection for machine tools, robotics and automatic equipment.

Features and benefits

- Made of sturdy polyester
- Self-extinguishing
- Highly flexible
- High rate of expansion
- Easy to apply over irregular shapes
- Good abrasion resistance



Helagaine HEGPETFRX.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C
Melting Point	+250 °C
Flammability	FMVSS 302, Type B, UL 1441 VW-1



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGPETFRX03	2.0	6.0	Black with Grey Identification Yarn (BKIDGY)	200 m	45	170-81100
HEGPETFRX06	3.0	10.0	Black with Grey Identification Yarn (BKIDGY)	200 m	45	170-81101
HEGPETFRX09	5.0	16.0	Black with Grey Identification Yarn (BKIDGY)	100 m	45	170-81102
HEGPETFRX12	6.0	19.0	Black with Grey Identification Yarn (BKIDGY)	100 m	45	170-81103
HEGPETFRX20	12.0	32.0	Black with Grey Identification Yarn (BKIDGY)	100 m	45	170-81104
HEGPETFRX30	19.0	45.0	Black with Grey Identification Yarn (BKIDGY)	50 m	45	170-81105
HEGPETFRX40	32.0	70.0	Black with Grey Identification Yarn (BKIDGY)	50 m	45	170-81106
HEGPETFRX50	38.0	76.0	Black with Grey Identification Yarn (BKIDGY)	50 m	45	170-81107

Recommended Tools: 45=HSG0. For more information on toolings please refer to the Application Tooling chapter on page 593.

All dimensions in mm. Subject to technical changes.



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



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
Melting Point	+255 °C
Flammability	UL 94 V2, FMVSS 302



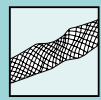
TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGPA6604	3.0	6.0	Black (BK)	200 m	45	170-40400
HEGPA6606	4.0	8.0	Black (BK)	100 m	45	170-40600
HEGPA6608	5.0	10.0	Black (BK)	100 m	45	170-40800
HEGPA6610	7.0	12.0	Black (BK)	100 m	45	170-41000
HEGPA6612	8.0	14.0	Black (BK)	100 m	45	170-41200
HEGPA6616	12.0	18.0	Black (BK)	50 m	45	170-41600
HEGPA6620	15.0	23.0	Black (BK)	50 m	45	170-42000
HEGPA6625	18.0	28.0	Black (BK)	50 m	45	170-42500
HEGPA6630	25.0	32.0	Black (BK)	50 m	45	170-43000
HEGPA6640	30.0	44.0	Black (BK)	50 m	45	170-44000
HEGPA6650	40.0	55.0	Black (BK)	50 m	45	170-45000
HEGPA6660	50.0	65.0	Black (BK)	50 m	45	170-46000

Recommended Tools: 45=HSG0. For more information on toolings please refer to the Application Tooling chapter on page 593.

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.

EN 45545-2 **ECE R-118**

Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



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
- Easier application over irregular shapes
- Highly flexible
- Good abrasion resistance



Helagaine HEGPL braided sleeving.

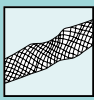
MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C
Melting Point	+250 °C
Flammability	UL 94 V2, FMVSS 302, Type B



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HEGPL03	3.0	8.0	Black (BK)	1000 m	45	170-80503
HEGPL06	5.0	12.0	Black (BK)	400 m	45	170-80506
HEGPL12	8.0	21.0	Black (BK)	300 m	45	170-80512
HEGPL20	12.0	30.0	Black (BK)	300 m	45	170-80520
HEGPL30	18.0	55.0	Black (BK)	200 m	45	170-80530
HEGPL40	24.0	66.0	Black (BK)	150 m	45	170-80540
HEGPL50	30.0	82.0	Black (BK)	150 m	45	170-80550

Recommended Tools: 45=HSG0. For more information on toolings please refer to the Application Tooling chapter on page 593.

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.



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.

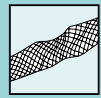
MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C
Melting Point	+250 °C
Flammability	UL 94 V2



TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
HLB15	15.0	5.0	21.0	Black (BK)	10 m	45	170-80150
HLB25	25.0	10.0	30.0	Black (BK)	10 m	45	170-80250
HLB35	35.0	18.0	54.0	Black (BK)	10 m	45	170-80350

Recommended Tools: 45=HSG0. For more information on toolings please refer to the Application Tooling chapter on page 593.

All dimensions in mm. Subject to technical changes.



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



Helagaine HEGMAN braided sleeving.

MATERIAL	Polyaramid Polymetaphenylene Isophthalamide (PMPI)
Operating Temperature	-60 °C to +240 °C
Melting Point	Does not melt / Carbonisation above +370 °C
Flammability	UL 94 V0



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HEGMAN-02	1.0	2.0	Green (GN)	100 m	170-02100
HEGMAN-04	2.0	4.0	Green (GN)	100 m	170-02101
HEGMAN-06	4.0	8.0	Green (GN)	100 m	170-02102
HEGMAN-08	6.0	12.0	Green (GN)	50 m	170-02103
HEGMAN-10	8.0	16.0	Green (GN)	50 m	170-02104
HEGMAN-15	10.0	20.0	Green (GN)	50 m	170-02105
HEGMAN-20	12.0	24.0	Green (GN)	50 m	170-02106
HEGMAN-25	15.0	30.0	Green (GN)	50 m	170-02107
HEGMAN-30	20.0	40.0	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.



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, microorganisms and fluids
- Also very resistant to acids and alkali



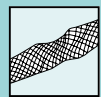
Helagaine HEGMANWO braided sleeving.

MATERIAL	Polyaramid Polymetaphenylene Isophthalamide (PMPI)
Operating Temperature	-60 °C to +240 °C
Melting Point	Does not melt / Carbonisation above +370 °C
Flammability	UL 94 V0, EN 3844-1B

RoHS

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HEGMANWO-02	1.0	2.0	Green (GN)	100 m	170-02000
HEGMANWO-04	2.0	4.0	Green (GN)	100 m	170-02001
HEGMANWO-06	4.0	8.0	Green (GN)	100 m	170-02002
HEGMANWO-08	6.0	12.0	Green (GN)	50 m	170-02003
HEGMANWO-10	8.0	16.0	Green (GN)	50 m	170-02004
HEGMANWO-15	10.0	20.0	Green (GN)	50 m	170-02005
HEGMANWO-20	12.0	24.0	Green (GN)	50 m	170-02006
HEGMANWO-25	15.0	30.0	Green (GN)	50 m	170-02007
HEGMANWO-30	20.0	40.0	Green (GN)	50 m	170-02008

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Self-closing polyester sleeving

Helagaine Twist-In

Helagaine Twist-In is used to bundle and protect cables and hoses in machine-building and automation, electrical installations, automobile and truck manufacturing. Helagaine Twist-In is also available in practical 2 m and 5 m lengths for use in the home or workplace.

Features and benefits

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



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

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



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
Twist-In 05-5 m	4.0	5.0	Black (BK)	5 m	45	170-01011
Twist-In 05	4.0	5.0	Black (BK)	150 m	45	170-01000
Twist-In 08-5 m	5.0	8.0	Black (BK)	5 m	45	170-01012
Twist-In 08	5.0	8.0	Black (BK)	100 m	45	170-01001
Twist-In 13-5 m	10.0	13.0	Black (BK)	5 m	45	170-01013
Twist-In 13	10.0	13.0	Black (BK)	50 m	45	170-01002
Twist-In 19-2 m	16.0	19.0	Black (BK)	2 m	45	170-01014
Twist-In 19	16.0	19.0	Black (BK)	25 m	45	170-01004
Twist-In 25-2 m	19.0	25.0	Black (BK)	2 m	45	170-01015
Twist-In 25	19.0	25.0	Black (BK)	25 m	45	170-01005
Twist-In 29-2 m	25.0	29.0	Black (BK)	2 m	45	170-01016
Twist-In 29	25.0	29.0	Black (BK)	15 m	45	170-01006
Twist-In 32-2 m	29.0	32.0	Black (BK)	2 m	45	170-01017
Twist-In 32	29.0	32.0	Black (BK)	15 m	45	170-01007
Twist-In 38-2 m	32.0	38.0	Black (BK)	2 m	45	170-01018
Twist-In 38	32.0	38.0	Black (BK)	15 m	45	170-01008
Twist-In 50	38.0	50.0	Black (BK)	15 m	45	170-01010

Recommended Tools: 45=HSG0. For more information on toolings please refer to the Application Tooling chapter on page 593.

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



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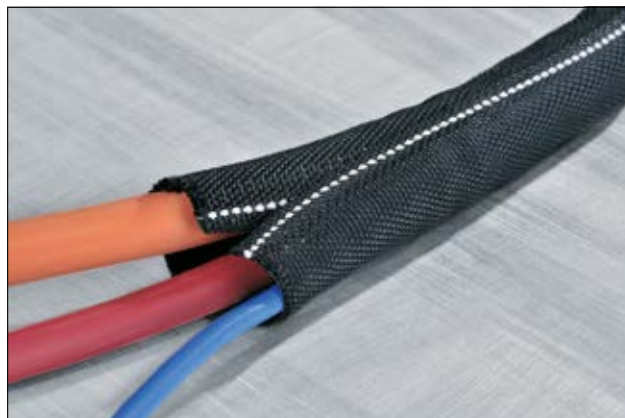
Self-closing, flame-retardant polyester sleeving

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
- Certified conformity with railway standard EN45545-2
- Quick and easy 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.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +125 °C
Melting Point	+240 °C
Flammability	FMVSS 302, UL 1441 VW-1



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Tools	Article-No.
Twist-In-FR 05	4.0	5.0	Black with White Identification Yarn (BKIDWH)	150 m	45	170-01100
Twist-In-FR 08	5.0	8.0	Black with White Identification Yarn (BKIDWH)	100 m	45	170-01101
Twist-In-FR 13	10.0	13.0	Black with White Identification Yarn (BKIDWH)	50 m	45	170-01102
Twist-In-FR 19	16.0	19.0	Black with White Identification Yarn (BKIDWH)	25 m	45	170-01104
Twist-In-FR 25	19.0	25.0	Black with White Identification Yarn (BKIDWH)	25 m	45	170-01105
Twist-In-FR 29	25.0	29.0	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01106
Twist-In-FR 32	29.0	32.0	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01107
Twist-In-FR 38	32.0	38.0	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01108
Twist-In-FR 50	38.0	50.0	Black with White Identification Yarn (BKIDWH)	15 m	45	170-01109

Recommended Tools: 45=HSG0. For more information on toolings please refer to the Application Tooling chapter on page 593.

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

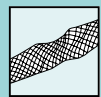


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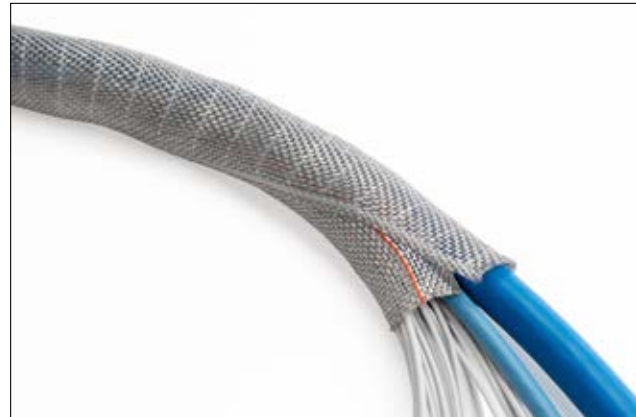
Self-closing, EMI protective sleeving

Helagaine Twist-In-EMIZ

Helagaine Twist-In-EMIZ is used to bundle and protect cables against ElectroMagnetic Interferences (EMI). Designed specifically for the railway industry, Twist-In-EMIZ can also be used in many other sectors, such as the naval and automotive industries.

Features and benefits

- Self-closing sleeve made of tinned copper and polyester monofilament
- High-performance electromagnetic protection thanks to its patented System Z
- Its EMC shielding capabilities (> 60 dB) provide highly effective attenuation of electromagnetic interference, protecting people and systems
- Optimal fire protection
- Very good protection against abrasion, vibration, impact and salt spray
- Certified conformity with railway standard EN45545-2: R22 HL3, R23 HL3
- Lightweight, repositionable and very flexible
- Quick and easy installation
- Allows for inspection, maintenance and retro-fitting
- For effective EMI protection, we recommend grounding at both ends, ideally with 360° shielding, on metal connectors



Twist-In-EMIZ shielding cables from electromagnetic interference (EMI).

MATERIAL	Tin-plated copper (SNCU), Polyester (PET)
Operating Temperature	-65 °C to +150 °C
EMI requirements	Tested from 10 kHz to 100 MHz according to IEC 62153-4-3 (triaxial method) Results on request

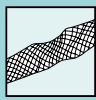


TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
Twist-In-EMIZ-05	1.0	5.0	Metal (ML)	100 m	170-01250
Twist-In-EMIZ-08	5.0	8.0	Metal (ML)	100 m	170-01251
Twist-In-EMIZ-13	8.0	13.0	Metal (ML)	50 m	170-01252
Twist-In-EMIZ_19	13.0	19.0	Metal (ML)	25 m	170-01253
Twist-In-EMIZ_25	19.0	25.0	Metal (ML)	25 m	170-01254
Twist-In-EMIZ_32	25.0	32.0	Metal (ML)	15 m	170-01255
Twist-In-EMIZ_38	32.0	38.0	Metal (ML)	15 m	170-01256
Twist-In-EMIZ-50	38.0	50.0	Metal (ML)	15 m	170-01257
Twist-In-EMIZ_80	50.0	80.0	Metal (ML)	10 m	170-01258

All dimensions in mm. Subject to technical changes.

EN 45545-2

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Rodent repellent self-closing sleeving

Helagaine Twist-In-RR

Helagaine Twist-In-RR is used to bundle and protect cables and hoses against rodents and martens in demanding areas such as automotive, railways, telecoms, underground, sewage system. Helagaine Twist-In-RR is also available in practical 2 m and 3 m lengths for use in the home or workplace.

Features and benefits

- Self-closing sleeve made from glass-fibre and polyester
- Optimal protection from rodents and martens
- Optimal fire protection
- Optimal protection against abrasion, vibrations and impacts
- Provides very good protection against abrasion, UV, vibrations and impacts
- Certified conformity with railway standard EN45545-2: R22 HL3, R23 HL3
- Quick and easy installation and retro-fitting
- Lightweight
- Allows for inspection and maintenance
- Good resistance to acids and solvents
- Good resistance to UV and weathering
- Good resistance to micro-organisms



Helagaine Twist-In-RR is used to protect against rodents and martens.

MATERIAL	Polyester (PET), Glass-fibre (GF)
Operating Temperature	-70 °C to +125 °C
Melting Point	+225 °C
Flammability	FMVSS 302



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
Twist-In-RR-13	10.0	13.0	White (WH), Black (BK)	3 m	170-01175
	10.0	13.0	White (WH), Black (BK)	50 m	170-01161
Twist-In-RR-19	16.0	19.0	White (WH), Black (BK)	2 m	170-01176
	16.0	19.0	White (WH), Black (BK)	25 m	170-01162
Twist-In-RR-29	25.0	29.0	White (WH), Black (BK)	2 m	170-01177
	25.0	29.0	White (WH), Black (BK)	15 m	170-01163
Twist-In-RR-32	29.0	32.0	White (WH), Black (BK)	2 m	170-01178
	29.0	32.0	White (WH), Black (BK)	15 m	170-01164

All dimensions in mm. Subject to technical changes.



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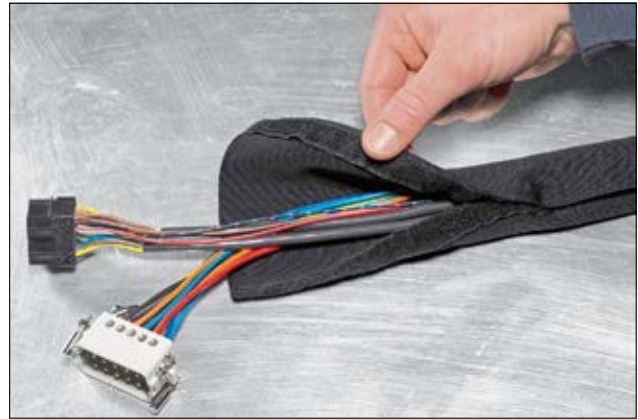
Re-closeable protective sleeving with hook-and-loop seal

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	UL 94 V2, FMVSS 302



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HELAHOOK10	3.0	15.0	Black (BK)	25 m	170-05100
HELAHOOK15	10.0	20.0	Black (BK)	25 m	170-05150
HELAHOOK20	15.0	30.0	Black (BK)	25 m	170-05200
HELAHOOK25	20.0	40.0	Black (BK)	25 m	170-05250
HELAHOOK30	25.0	50.0	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.



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Burst Protection Sleeving for Hydraulic Hoses

Helagaine HEGWS

Helagaine 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 there 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
- Fulfills 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.

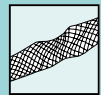
MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-60 °C to +125 °C
Melting Point	+220 +/- 10 °C
Flammability	UL 94 V2, FMVSS 302, Type B



TYPE	Inside Ø (ID)	Wall (WT)	Colour	Reel Length	Tools	Article-No.
HEGWS20	12.0	1.10	Black (BK)	50 m	45	170-01300
HEGWS25	15.0	1.10	Black (BK)	50 m	45	170-01301
HEGWS30	19.0	1.10	Black (BK)	50 m	45	170-01302
HEGWS35	22.0	1.10	Black (BK)	50 m	45	170-01303
HEGWS40	25.0	1.10	Black (BK)	50 m	45	170-01304
HEGWS45	28.0	1.10	Black (BK)	50 m	45	170-01305
HEGWS50	31.0	1.10	Black (BK)	50 m	45	170-01306
HEGWS60	38.0	1.10	Black (BK)	50 m	45	170-01307
HEGWS70	44.0	1.10	Black (BK)	50 m	45	170-01308
HEGWS80	50.0	1.10	Black (BK)	50 m	45	170-01309
HEGWS90	57.0	1.10	Black (BK)	50 m	45	170-01310
HEGWS100	60.0	1.10	Black (BK)	50 m	45	170-01311
HEGWS115	70.0	1.10	Black (BK)	50 m	45	170-01312
HEGWS145	90.0	1.10	Black (BK)	50 m	45	170-01313
HEGWS176	110.0	1.10	Black (BK)	50 m	45	170-01314
HEGWS200	125.0	1.10	Black (BK)	50 m	45	170-01315

Recommended Tools: 45=HSG0. For more information on toolings please refer to the Application Tooling chapter on page 593.

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



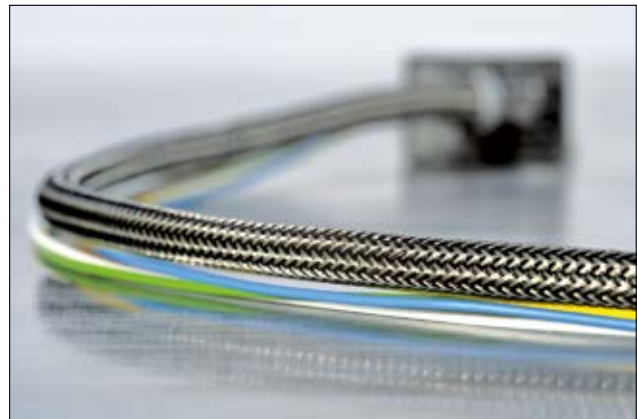
Braided sleeving for electromagnetic protection

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



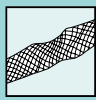
HEGEMIP braided sleeving: reliable protection from electromagnetic radiation.

MATERIAL	Polyester, halogen free (PET), Tin-plated copper (SNCU)
Operating Temperature	-40 °C to +150 °C
EMI requirements	10 kHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)
Flammability	UL 94 V2, FMVSS 302



TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIP04	4.0	4.0	6.0	Metal (ML), Black (BK)	22 g/m	100 m	173-00400
HEGEMIP06	6.0	5.0	10.0	Metal (ML), Black (BK)	29 g/m	100 m	173-00600
HEGEMIP08	8.0	8.0	11.0	Metal (ML), Black (BK)	36 g/m	100 m	173-00800
HEGEMIP10	10.0	8.0	13.0	Metal (ML), Black (BK)	44 g/m	50 m	173-01000
HEGEMIP12	12.0	10.0	15.0	Metal (ML), Black (BK)	48 g/m	50 m	173-01200
HEGEMIP14	14.0	12.0	18.0	Metal (ML), Black (BK)	58 g/m	100 m	173-01400
HEGEMIP16	16.0	14.0	20.0	Metal (ML), Black (BK)	73 g/m	100 m	173-01600
HEGEMIP18	18.0	16.0	22.0	Metal (ML), Black (BK)	79 g/m	50 m	173-01800
HEGEMIP20	20.0	18.0	25.0	Metal (ML), Black (BK)	100 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.



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
- Fulfils the requirements of IEC CISPR25 for radio disturbances in vehicles, boats and engines



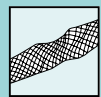
HEGEMIP-HY braided sleeving: EMI protection for hybrid automobiles.

MATERIAL	Polyester (PET), Tin-plated copper (SNCU)
Operating Temperature	-40 °C to +150 °C
EMI requirements	10 kHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)
Flammability	UL 94 V2, FMVSS 302



TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIP-HY20	20.0	19.0	27.0	Silver (SR), Orange (OG)	72 g/m	50 m	173-02001
HEGEMIP-HY30	30.0	25.0	35.0	Silver (SR), Orange (OG)	101 g/m	50 m	173-03000
HEGEMIP-HY35	35.0	30.0	40.0	Silver (SR), Orange (OG)	120 g/m	50 m	173-03501
HEGEMIP-HY40	40.0	30.0	50.0	Silver (SR), Orange (OG)	180 g/m	50 m	173-04000
HEGEMIP-HY50	50.0	40.0	60.0	Silver (SR), Orange (OG)	204 g/m	50 m	173-05000
HEGEMIP-HY60	60.0	50.0	70.0	Silver (SR), Orange (OG)	299 g/m	25 m	173-06000

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



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 (SNCU)
Operating Temperature	-65 °C to +150 °C
Flammability	UL 94 V2, FMVSS 302

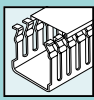


TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIP-VG03	3.0	3.5	5.0	Metal (ML)	19 g/m	500 m	173-00200
HEGEMIP-VG04	4.0	4.5	7.0	Metal (ML)	30 g/m	500 m	173-00201
HEGEMIP-VG06	6.0	5.5	8.5	Metal (ML)	37 g/m	500 m	173-00202
HEGEMIP-VG07.5	7.5	7.5	13.5	Metal (ML)	71 g/m	500 m	173-00203
HEGEMIP-VG10	10.0	13.0	17.5	Metal (ML)	96 g/m	250 m	173-00204
HEGEMIP-VG12.5	12.5	15.0	19.5	Metal (ML)	100 g/m	200 m	173-00205
HEGEMIP-VG20	20.0	19.0	30.0	Metal (ML)	265 g/m	100 m	173-00206

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



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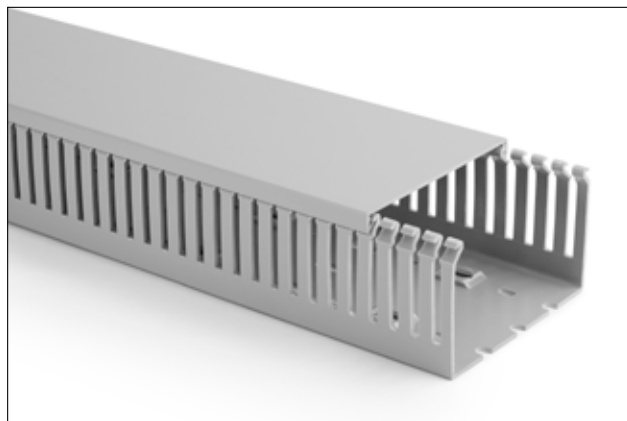
Rigid PVC wiring ducts

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

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

Features and benefits

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

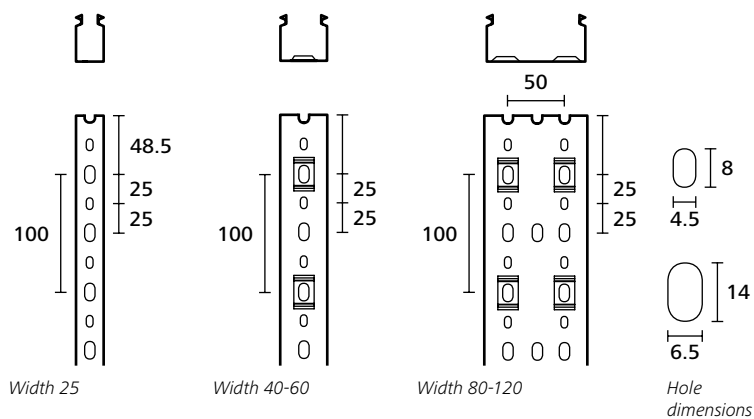


HelaDuct HTWD-PN - narrow finger wiring duct.

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

RoHS

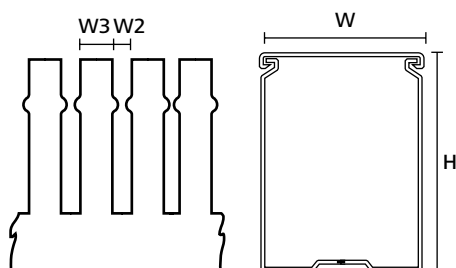
Base perforation according to DIN EN50085, HelaDuct wiring ducts HTWD-PN / PW





Rigid PVC wiring ducts

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



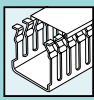
Wiring duct HTWD-PN

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Article-No.
HTWD-PN-25X40	25.0	40.0	4.0	6.0	72 m	184-10068
HTWD-PN-25X60	25.0	60.0	4.0	6.0	48 m	184-10138
HTWD-PN-25X80	25.0	80.0	4.0	6.0	48 m	184-10198
HTWD-PN-40X40	40.0	40.0	4.0	6.0	40 m	184-10078
HTWD-PN-40X60	40.0	60.0	4.0	6.0	36 m	184-10148
HTWD-PN-40X80	40.0	80.0	4.0	6.0	32 m	184-10208
HTWD-PN-40X100	40.0	100.0	4.0	6.0	16 m	184-10258
HTWD-PN-60X40	60.0	40.0	4.0	6.0	24 m	184-10088
HTWD-PN-60X60	60.0	60.0	4.0	6.0	24 m	184-10158
HTWD-PN-60X80	60.0	80.0	4.0	6.0	24 m	184-10218
HTWD-PN-60X100	60.0	100.0	4.0	6.0	8 m	184-10268
HTWD-PN-80X40	80.0	40.0	4.0	6.0	24 m	184-10098
HTWD-PN-80X60	80.0	60.0	4.0	6.0	24 m	184-10168
HTWD-PN-80X80	80.0	80.0	4.0	6.0	24 m	184-10228
HTWD-PN-80X100	80.0	100.0	4.0	6.0	8 m	184-10329
HTWD-PN-100X40	100.0	40.0	4.0	6.0	16 m	184-10108
HTWD-PN-100X60	100.0	60.0	4.0	6.0	16 m	184-10178
HTWD-PN-100X80	100.0	80.0	4.0	6.0	16 m	184-10238
HTWD-PN-100X100	100.0	100.0	4.0	6.0	8 m	184-10278
HTWD-PN-120X60	120.0	60.0	4.0	6.0	16 m	184-10188
HTWD-PN-120X80	120.0	80.0	4.0	6.0	16 m	184-10248

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



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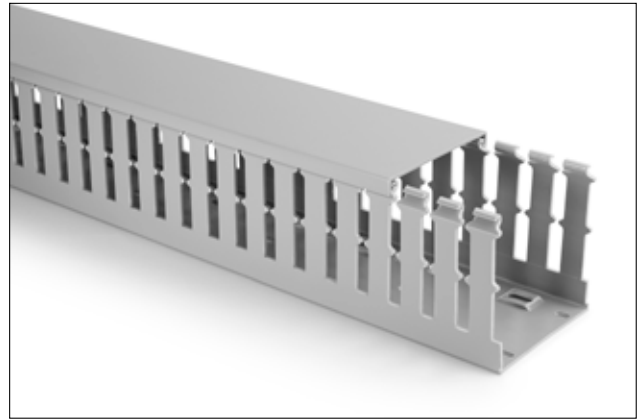
Rigid PVC wiring ducts

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

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

Features and benefits

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

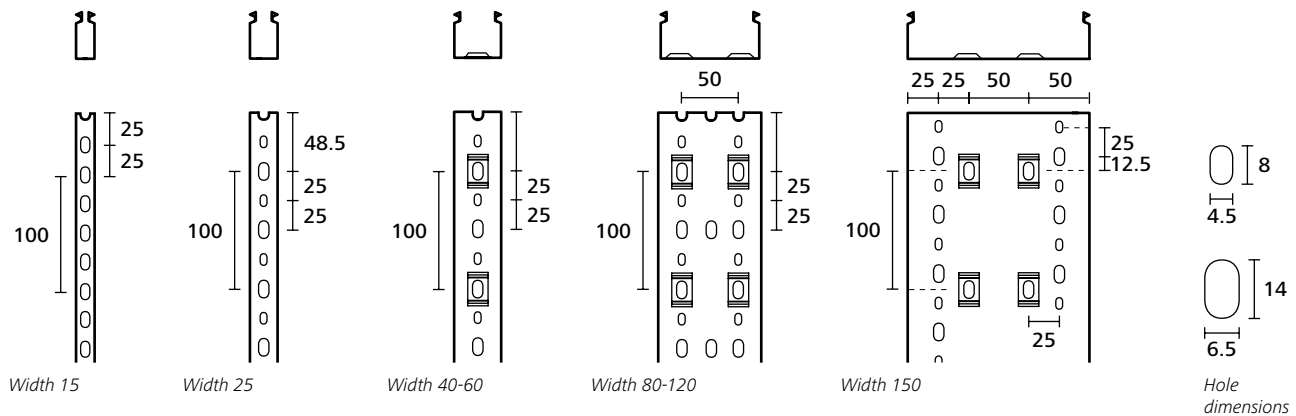


HelaDuct HTWD-PW - wide finger wiring duct.

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

RoHS

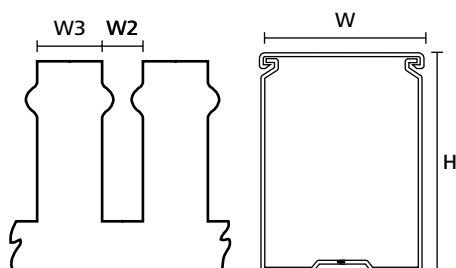
Base perforation according to DIN EN50085, HelaDuct wiring ducts HTWD-PN / PW





Rigid PVC wiring ducts

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



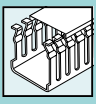
Wiring duct HTWD-PW/
HTWD-PWB

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Article-No.
HTWD-PW-15X18	15.0	18.0	5.0	7.5	72 m	181-10018
HTWD-PW-15X30	15.0	30.0	5.0	7.5	64 m	181-10038
HTWD-PW-15X40	15.0	40.0	5.0	7.5	48 m	181-10058
HTWD-PW-15X60	15.0	60.0	5.0	7.5	32 m	181-10118
HTWD-PW-25X30	25.0	30.0	5.0	7.5	72 m	181-10028
HTWD-PW-25X40	25.0	40.0	8.0	12.0	72 m	181-10068
HTWD-PW-25X60	25.0	60.0	8.0	12.0	48 m	181-10138
HTWD-PW-25X80	25.0	80.0	8.0	12.0	48 m	181-10198
HTWD-PW-25X100	25.0	100.0	8.0	12.0	16 m	181-10328
HTWD-PW-40X40	40.0	40.0	8.0	12.0	40 m	181-10078
HTWD-PW-40X60	40.0	60.0	8.0	12.0	36 m	181-10148
HTWD-PW-40X80	40.0	80.0	8.0	12.0	32 m	181-10208
HTWD-PW-40X100	40.0	100.0	8.0	12.0	16 m	181-10258
HTWD-PW-60X40	60.0	40.0	8.0	12.0	24 m	181-10088
HTWD-PW-60X60	60.0	60.0	8.0	12.0	24 m	181-10158
HTWD-PW-60X80	60.0	80.0	8.0	12.0	24 m	181-10218
HTWD-PW-60X100	60.0	100.0	8.0	12.0	8 m	181-10268
HTWD-PW-80X40	80.0	40.0	8.0	12.0	24 m	181-10098
HTWD-PW-80X60	80.0	60.0	8.0	12.0	24 m	181-10168
HTWD-PW-80X80	80.0	80.0	8.0	12.0	24 m	181-10228
HTWD-PW-80X100	80.0	100.0	8.0	12.0	8 m	181-10329
HTWD-PW-100X40	100.0	40.0	8.0	12.0	16 m	181-10108
HTWD-PW-100X60	100.0	60.0	8.0	12.0	16 m	181-10178
HTWD-PW-100X80	100.0	80.0	8.0	12.0	16 m	181-10238
HTWD-PW-100X100	100.0	100.0	8.0	12.0	8 m	181-10278
HTWD-PW-120X60	120.0	60.0	8.0	12.0	16 m	181-10188
HTWD-PW-120X80	120.0	80.0	8.0	12.0	16 m	181-10248
HTWD-PW-150X100	150.0	100.0	8.0	12.0	8 m	181-10288

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



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Rigid PVC wiring ducts

HelaDuct HTWD-PD (DIN-sizes)

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

Features and benefits

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

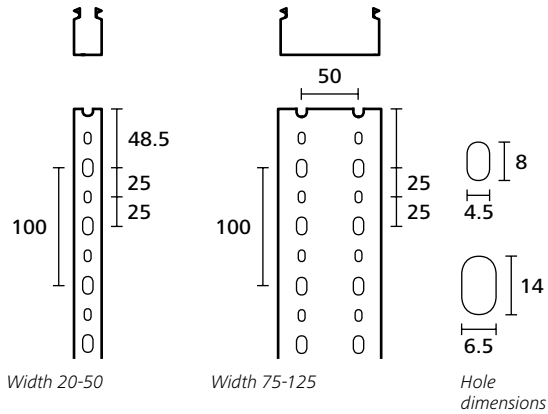


HelaDuct HTWD-PD - DIN sized wiring duct.

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

RoHS

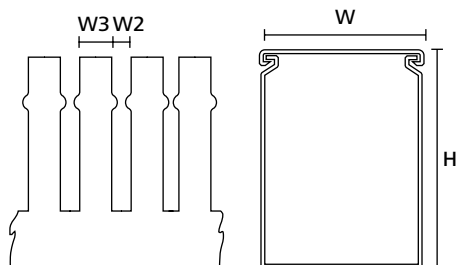
Base perforation according to DIN EN50085, HelaDuct wiring ducts HTWD-PD





Rigid PVC wiring ducts

HelaDuct HTWD-PD (DIN-sizes)



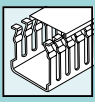
Wiring duct HTWD-PD

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Article-No.
HTWD-PD-20X20	20.0	20.0	4.0	6.0	64 m	185-42020
HTWD-PD-20X37.5	20.0	37.5	4.0	6.0	32 m	185-42037
HTWD-PD-20X50	20.0	50.0	4.0	6.0	20 m	185-42050
HTWD-PD-25X25	25.0	25.0	5.0	7.5	48 m	185-42525
HTWD-PD-25X50	25.0	50.0	5.0	7.5	18 m	185-42550
HTWD-PD-25X75	25.0	75.0	5.0	7.5	32 m	185-42575
HTWD-PD-37.5X25	37.5	25.0	5.0	7.5	64 m	185-43725
HTWD-PD-37.5X37.5	37.5	37.5	5.0	7.5	32 m	185-43737
HTWD-PD-37.5X50	37.5	50.0	5.0	7.5	40 m	185-43750
HTWD-PD-37.5X75	37.5	75.0	5.0	7.5	40 m	185-43775
HTWD-PD-50X50	50.0	50.0	5.0	7.5	48 m	185-45050
HTWD-PD-50X75	50.0	75.0	5.0	7.5	20 m	185-45075
HTWD-PD-50X100	50.0	100.0	5.0	7.5	24 m	185-45010
HTWD-PD-75X50	75.0	50.0	5.0	7.5	20 m	185-47550
HTWD-PD-75X75	75.0	75.0	5.0	7.5	16 m	185-47575
HTWD-PD-75X100	75.0	100.0	5.0	7.5	16 m	185-47510
HTWD-PD-100X50	100.0	50.0	5.0	7.5	24 m	185-41050
HTWD-PD-100X75	100.0	75.0	5.0	7.5	16 m	185-41075
HTWD-PD-100X100	100.0	100.0	5.0	7.5	8 m	185-41010
HTWD-PD-125X50	125.0	50.0	5.0	7.5	18 m	185-41250
HTWD-PD-125X75	125.0	75.0	5.0	7.5	12 m	185-41275

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



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Halogen-free wiring ducts

HelaDuct HTWD-HF (metric sizes)

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

Features and benefits

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

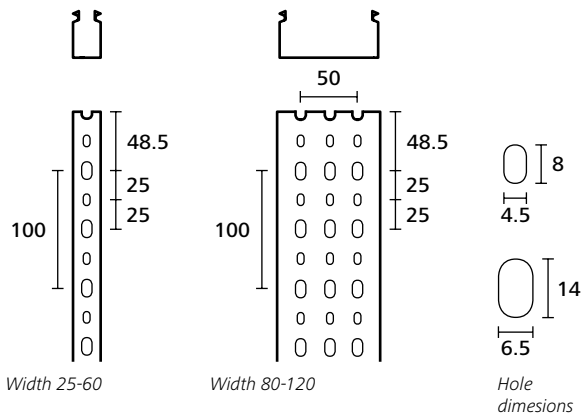


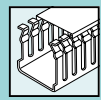
HelaDuct HTWD-HF (metric), halogenfree wiring duct.

MATERIAL	Acrylonitrile Butadiene Styrene alloyed with Polycarbonate (PC/ABS)
Colour	Grey (GY)
Length (L)	2.0 m
Operating Temperature	-25 °C to +90 °C
Flammability	UL 94 V0



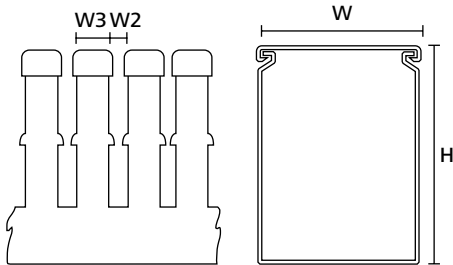
Base perforation according to DIN EN50085, HelaDuct wiring ducts HTWD-HF





Halogen-free wiring ducts

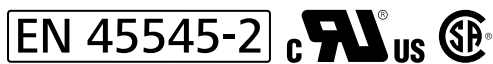
HelaDuct HTWD-HF (metric sizes)



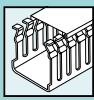
HelaDuct Wiring ducts
HTWD-HF

TYPE	Width (W)	Height (H)	Width (W2)	Width (W3)	Pack Cont.	Article-No.
HTWD-HF-25X25	25.0	25.0	6.0	6.5	50.0 m	183-22525
HTWD-HF-25X40	25.0	40.0	6.0	6.5	48.0 m	183-22540
HTWD-HF-25X60	25.0	60.0	6.0	6.5	60.0 m	183-25060
HTWD-HF-25X80	25.0	80.0	6.0	6.5	20.0 m	183-22580
HTWD-HF-40X25	40.0	25.0	6.0	6.5	48.0 m	183-24025
HTWD-HF-40X40	40.0	40.0	6.0	6.5	50.0 m	183-24040
HTWD-HF-40X60	40.0	60.0	6.0	6.5	40 m	183-24060
HTWD-HF-40X80	40.0	80.0	6.0	6.5	20.0 m	183-24080
HTWD-HF-60X40	60.0	40.0	6.0	6.5	40 m	183-26040
HTWD-HF-60X60	60.0	60.0	6.0	6.5	24.0 m	183-26060
HTWD-HF-60X80	60.0	80.0	6.0	6.5	20.0 m	183-26080
HTWD-HF-60X100	60.0	100.0	6.0	6.5	12.0 m	183-26010
HTWD-HF-80X40	80.0	40.0	6.0	6.5	20.0 m	183-28040
HTWD-HF-80X60	80.0	60.0	6.0	6.5	20.0 m	183-28060
HTWD-HF-80X80	80.0	80.0	6.0	6.5	12.0 m	183-28080
HTWD-HF-80X100	80.0	100.0	6.0	6.5	10.0 m	183-28010
HTWD-HF-100X40	100.0	40.0	6.0	6.5	20.0 m	183-22040
HTWD-HF-100X60	100.0	60.0	6.0	6.5	16.0 m	183-21060
HTWD-HF-100X80	100.0	80.0	6.0	6.5	12.0 m	183-21080
HTWD-HF-100X100	100.0	100.0	6.0	6.5	8.0 m	183-21010
HTWD-HF-120X60	120.0	60.0	6.0	6.5	12.0 m	183-21260
HTWD-HF-120X80	120.0	80.0	6.0	6.5	16.0 m	183-21280

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



Flexible cable support

HelaDuct Flex

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)	
Colour	White (WH)	
Operating Temperature	-20 °C to +70 °C	
Fixation Method	Screw Mounting	Screw Mounting and Adhesive
Adhesive		Synthetic rubber with base of polyethylene foam
Flammability	UL 94 V0 (excluding adhesive)	



TYPE	Nominal Ø	Fixation Method	No. of Wires		Length (L)	Pack Cont.	Article-No.
HelaDuct Flex10	10	Screw Mounting	6 x 1.50 mm ²	4 x 2.50 mm ²	500.0	100 pcs.	164-11008
HelaDuct Flex10SK	10	Screw Mounting and Adhesive	6 x 1.50 mm ²	4 x 2.50 mm ²	500.0	100 pcs.	164-11108
HelaDuct Flex20	20	Screw Mounting	22 x 1.50 mm ²	14 x 2.50 mm ²	500.0	70 pcs.	164-21008
HelaDuct Flex20SK	20	Screw Mounting and Adhesive	22 x 1.50 mm ²	14 x 2.50 mm ²	500.0	70 pcs.	164-21108
HelaDuct Flex30	30	Screw Mounting	50 x 1.50 mm ²	34 x 2.50 mm ²	500.0	40 pcs.	164-31008
HelaDuct Flex30SK	30	Screw Mounting and Adhesive	50 x 1.50 mm ²	34 x 2.50 mm ²	500.0	40 pcs.	164-31108
HelaDuct Flex40	40	Screw Mounting	81 x 2.50 mm ²	60 x 2.50 mm ²	500.0	24 pcs.	164-41008
HelaDuct Flex40SK	40	Screw Mounting and Adhesive	81 x 2.50 mm ²	60 x 2.50 mm ²	500.0	24 pcs.	164-41108

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



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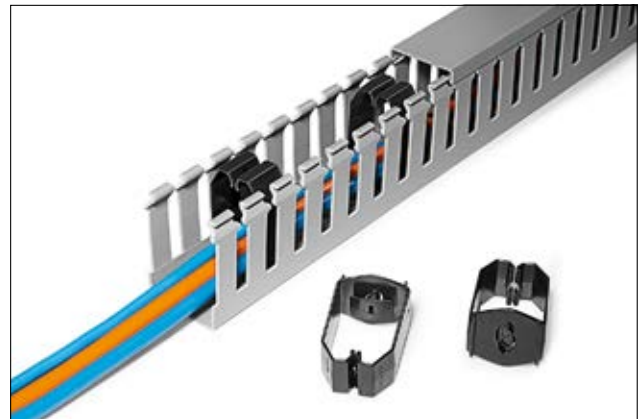
For mounting prior to wiring

HelaDuct HTWD-BWR Base Wire Retainers

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

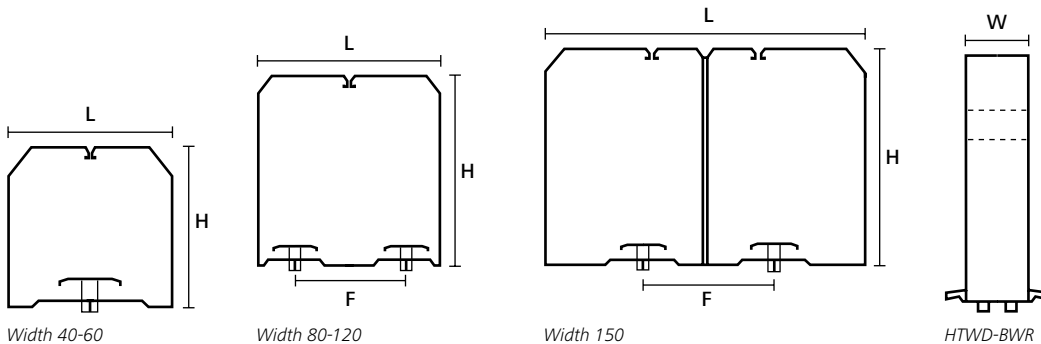
Features and benefits

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



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

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



TYPE	Length (L)	Height (H)	Width (W)	Fixing Hole Centres (F)	Colour	Pack Cont.	Article-No.
HTWD-BWR-40X80	34.0	75.0	20.0	-	Black (BK)	20 pcs.	181-50480
HTWD-BWR-40X40	35.0	36.0	20.0	-	Black (BK)	40 pcs.	181-50440
HTWD-BWR-40X60	35.0	56.0	20.0	-	Black (BK)	40 pcs.	181-50460
HTWD-BWR-60X60	54.0	55.0	20.0	-	Black (BK)	20 pcs.	181-50660
HTWD-BWR-60X80	54.0	75.0	20.0	-	Black (BK)	20 pcs.	181-50680
HTWD-BWR-60X100	54.0	95.0	20.0	-	Black (BK)	20 pcs.	181-50690
HTWD-BWR-60X40	55.0	35.0	20.0	-	Black (BK)	40 pcs.	181-50640
HTWD-BWR-80X60	74.0	55.0	20.0	50.0	Black (BK)	10 pcs.	181-50860
HTWD-BWR-80X80	74.0	74.0	20.0	50.0	Black (BK)	10 pcs.	181-50880
HTWD-BWR-80X100	74.0	94.0	20.0	50.0	Black (BK)	30 pcs.	181-50890
HTWD-BWR-100X100	93.0	94.0	20.0	50.0	Black (BK)	5 pcs.	181-51090
HTWD-BWR-100X60	94.0	55.0	20.0	50.0	Black (BK)	10 pcs.	181-51060
HTWD-BWR-100X80	94.0	75.0	20.0	50.0	Black (BK)	10 pcs.	181-51080
HTWD-BWR-120X80	113.0	74.0	20.0	50.0	Black (BK)	10 pcs.	181-51280
HTWD-BWR-120X60	114.0	54.0	20.0	50.0	Black (BK)	10 pcs.	181-51260
HTWD-BWR-150X100	143.0	94.0	20.0	50.0	Black (BK)	5 pcs.	181-51590

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



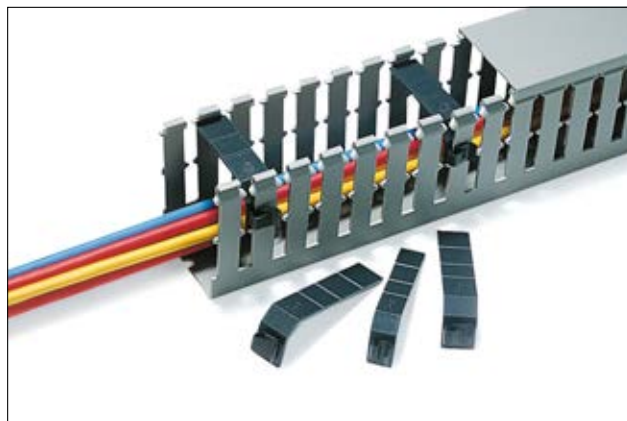
For mounting to duct fingers

HelaDuct HTWD-NFWR and HTWD-WFWR Wire Retainers

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

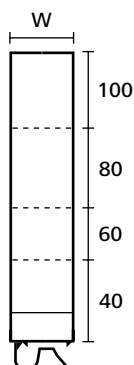
Features and benefits

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



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

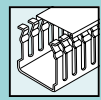
MATERIAL	Acrylonitrile Butadiene Styrene (ABS)
Operating Temperature	-40 °C to +80 °C
Flammability	UL 94 HB



HTWD-NFWR, -WFWR

TYPE	For Wiring Ducts	Width (W)	Colour	Pack Cont.	Article-No.
HTWD-NFWR	HTWD-PN, HTWD-HF	14.0	Black (BK)	100 pcs.	181-10020
HTWD-WFWR	HTWD-PW	18.0	Black (BK)	100 pcs.	181-10010

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



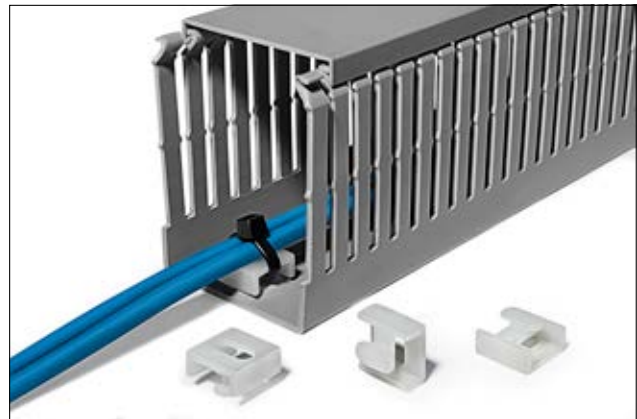
For fixing cable ties to base of ducts

HelaDuct HTWD-CTH cable tie holder

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

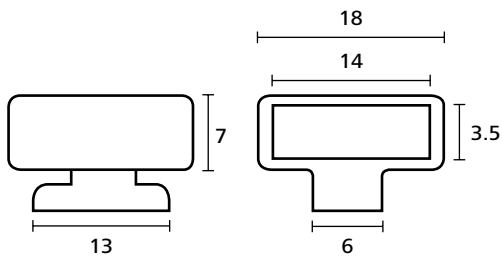
Features and benefits

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



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

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



HTWD-CTH Mount

HTWD-CTH Mount

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

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



For installing wiring ducts into fixing holes

HelaDuct HTWD-R4 and HTWD-R6 rivets

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

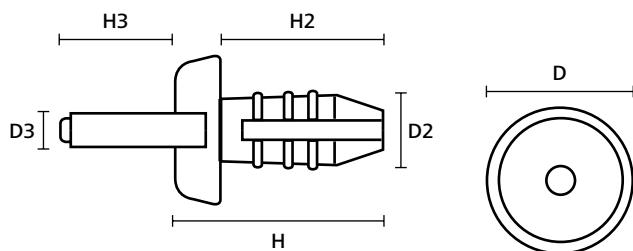
Features and benefits

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



HTWD-R4 and HTWD-R6 Rivet.

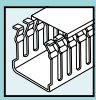
MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +80 °C
Flammability	UL 94 V2



HTWD-R4, -R6

TYPE	Height (H)	Height (H2)	Height (H3)	Ø (D)	Ø (D2)	Ø (D3)	Colour	Pack Cont.	Article-No.
HTWD-R4	14.0	12.0	11.5	9.0	5.0	2.0	Blue (BU)	1000 pcs.	181-42400
HTWD-R6	16.0	12.7	13.0	11.0	6.0	3.0	Black (BK)	250 pcs.	181-42600
	16.0	14.0	13.5	11.0	7.5	4.0	Orange (OG)	500 pcs.	181-42500

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



For inserting R4 and R6 rivets

HelaDuct HTWD-RT4 and HTWD-RT6 Rivet Tools

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

Features and benefits

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



Rivet Tools HTWD-RT4, -RT6.

MATERIAL	Metal (MET), Plastic (PL)
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TYPE	For Wiring Duct Rivets	Colour	Pack Cont.	Article-No.
HTWD-RT4	R4	Blue (BU)	1 pc.	181-41542
HTWD-RT6	R6	Orange (OG)	1 pc.	181-41564

Subject to technical changes.



Edge protection for cut-out sections

Flexiform G51P PE grommet strip

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

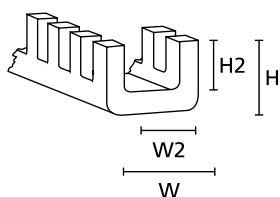
Features and benefits

- Very flexible
- Easily and securely applied without adhesives
- Provides effective, orderly-looking protection
- Flexiform G51P made of polyethylene offers general purpose edge protection



Optimal protection of cables and wires at panel edges.

MATERIAL	Polyethylene (PE)
Operating Temperature	-30 °C to +80 °C
Flammability	UL 94 HB



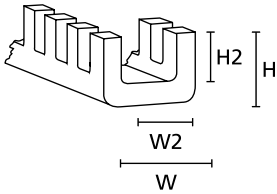
Flexiform edge protection

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.



Flexiform G51T PTFE grommet strip



Flexiform edge protection

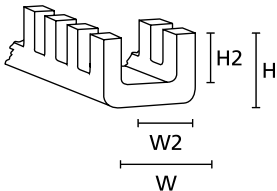
MATERIAL	Polytetrafluoroethylene (PTFE)
Operating Temperature	-60 °C to +260 °C, intermittent +350 °C
Flammability	UL 94 V0



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.

Flexiform G51N PA6 grommet strip



Flexiform edge protection

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-60 °C to +95 °C
Flammability	UL 94 HB



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	9.70 - 12.90	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.



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Edge protection

EdgeGuard

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

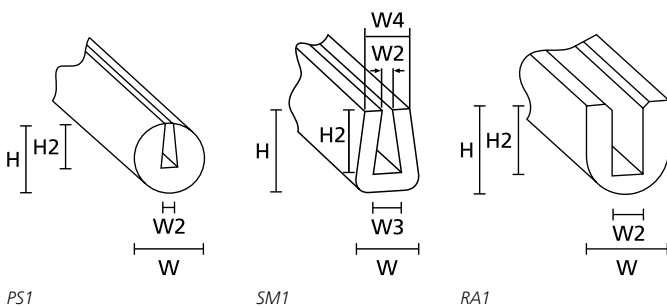
Features and benefits

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



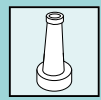
EdgeGuard protection against sharp panel edges.

MATERIAL	Polyvinylchloride (PVC)
Operating Temperature	-65 °C to +105 °C, intermittent +135 °C
Flammability	UL 94 HB



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.



For blade receptables and terminals

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



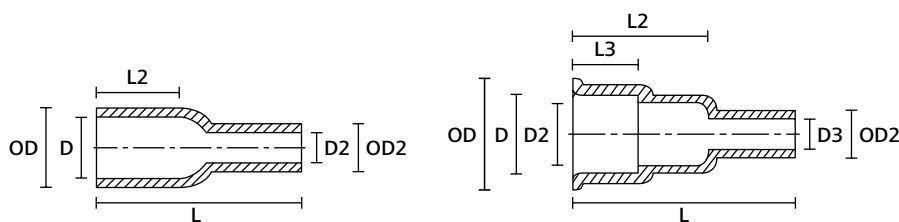
Push-on caps and elbow grommets in various dimensions.

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	55±5	nom. 45
Flammability	UL 94 HB	UL 94 V0	UL 94 HB

RoHS ✓

HF ✓

RoHS ✓



HV4819

HV4825

TYPE	Drawing	Outside Ø (OD)	Outside Ø (OD2)	Ø (D)	Ø (D2)	Length (L)	Length (L2)	Length (L3)	Material	Colour	Pack Cont.	Article-No.
HV4819		10.0	6.0	8.0	4.0	27.0	-	-	PVC-FR	Black (BK)	2000 pcs.	631-08190
		10.0	6.0	8.0	4.0	27.0	-	-	PVC-FR	Natural (NA)	2000 pcs.	631-08199
HV4820		12.0	6.0	10.0	4.0	25.0	14.0	6.0	PVC	Black (BK)	2000 pcs.	631-08200
		12.0	6.0	10.0	4.0	25.0	14.0	6.0	PVC	Natural (NA)	2000 pcs.	631-08209
HV4823		10.5	7.5	8.0	5.0	27.0	-	-	PVC	Natural (NA)	2000 pcs.	631-08239
HV4825		14.0	6.0	10.3	4.0	28.0	17.0	8.0	PVC	Natural (NA)	2000 pcs.	631-08259
OP4827		9.0	6.2	7.5	3.5	22.5	-	-	PE	Natural (NA)	2000 pcs.	631-58279
OP4828		5.2	4.0	4.0	2.8	18.0	-	-	PE	Natural (NA)	2000 pcs.	631-58289

All dimensions in mm. Subject to technical changes.



For flat pin bushings

Elbow grommets

Elbow grommets are specially constructed to insulate and protect flat pin bushings. They are used in all areas of automotive electronics and connection technology.

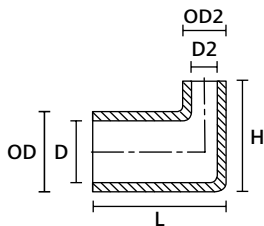
Features and benefits

- 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, flame retardant (PVC-FR)
Operating Temperature	-30 °C to +60 °C
Shore Hardness A	55±5
Flammability	UL 94 V0, FMVSS 302



HV4821

TYPE	Drawing	Outside Ø (OD)	Outside Ø (OD2)	Ø (D)	Ø (D2)	Height (H)	Length (L)	Material	Colour	Pack Cont.	Article-No.
HV4821		10.5	5.3	8.5	3.3	14.0	17.0	PVC-FR	Black (BK)	2000 pcs.	631-08210
		10.5	5.3	8.5	3.3	14.0	17.0	PVC-FR	Natural (NA)	2000 pcs.	631-08219

All dimensions in mm. Subject to technical changes.



For bend protection at cable exits

Bend protection grommets

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

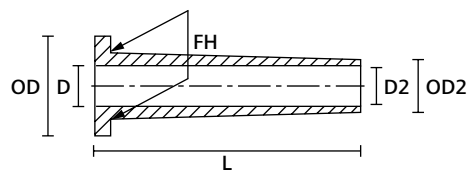
Features and benefits

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

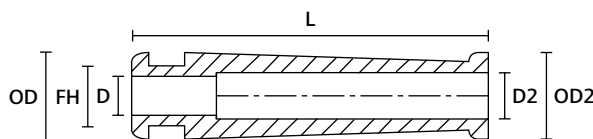


Protection and routing of cables free of kinks and breakage.

MATERIAL	Polyvinylchloride, flame retardant (PVC-FR)
Operating Temperature	-30 °C to +60 °C
Shore Hardness A	55±5
Flammability	UL 94 V0



HV2101



HV2206

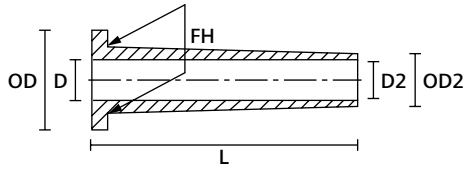
TYPE	Drawing	Outside Ø (OD)	Outside Ø (OD2)	Hole Ø (FH)	Ø (D)	Ø (D2)	Length (L)	Colour	Pack Cont.	Article-No.
HV2101		5.3	5.5	9.0	5.3	5.5	35.0	White (WH)	1000 pcs.	632-01019
		13.0	7.0	9.0	5.3	5.5	35.0	Black (BK)	1000 pcs.	632-01010
		13.0	7.0	9.0	5.3	5.5	35.0	Grey (GY)	1000 pcs.	632-01017
HV2101A		13.0	9.5	9.0	5.5	5.3	35.0	Black (BK)	1000 pcs.	632-01020
HV2103		13.0	6.5	9.0	4.5	3.0	27.0	Black (BK)	1000 pcs.	632-01030
HV2104		13.0	6.5	9.5	4.5	3.0	28.5	Black (BK)	1000 pcs.	632-01040
HV2107		16.0	12.0	11.5	8.0	-	85.0	Black (BK)	200 pcs.	632-01070
HV2206		11.0	-	8.0	5.5	-	47.0	Black (BK)	500 pcs.	632-02060
HV2209		13.0	7.8	8.8	6.5	7.5	36.0	Black (BK)	1000 pcs.	632-02090
HV2210		13.0	7.8	8.8	7.5	6.5	30.0	Black (BK)	1000 pcs.	632-02100

All dimensions in mm. Subject to technical changes.

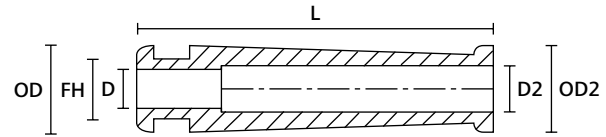


For bend protection at cable exits

Bend protection grommets



HV2101



HV2206

TYPE	Drawing	Outside Ø (OD)	Outside Ø (OD2)	Hole Ø (FH)	Ø (D)	Ø (D2)	Length (L)	Colour	Pack Cont.	Article-No.
HV2213		9.0	5.5	6.0	4.0	3.5	23.0	Black (BK)	2000 pcs.	632-02130
HV2228		11.0	8.0	8.0	5.6	5.5	44.0	Black (BK)	500 pcs.	632-02280

All dimensions in mm. Subject to technical changes.



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

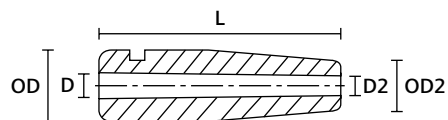
- Provides excellent strain relieve
- Flexible and easy to apply
- High resistance to chemicals and environmental influences



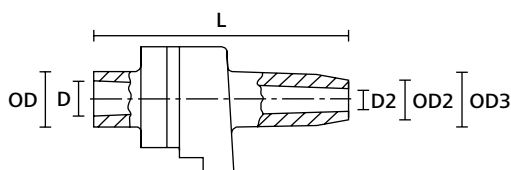
Strain protection grommets in various shapes and sizes.

MATERIAL	Polyvinylchloride, flame retardant (PVC-FR)	Flexible Polyvinyl Chloride, cadmium free (PVC)
Operating Temperature	-30 °C to +60 °C	
Shore Hardness A	55±5	63±5
Flammability	UL 94 V0	UL 94 HB

RoHS



H125



H120

TYPE	Drawing	Outside Ø (OD)	Outside Ø (OD2)	Outside Ø (OD3)	Ø (D)	Ø (D2)	Length (L)	Material	Colour	Pack Cont.	Article-No.
H125		9.0	6.0	-	4.0	3.5	32.0	PVC	Black (BK)	1000 pcs.	634-31250
H126		9.0	6.0	-	5.0	4.5	32.0	PVC	Black (BK)	1000 pcs.	634-31260
		9.0	6.0	-	5.0	4.5	32.0	PVC	Grey (GY)	1000 pcs.	634-31268
H321		8.5	7.0	8.5	6.0	5.5	46.0	PVC-FR	Black (BK)	200 pcs.	634-03210
H120		8.0	6.0	8.0	4.5	3.0	35.0	PVC-FR	Black (BK)	500 pcs.	634-01200
H121		11.0	8.5	-	8.0	7.0	33.0	PVC-FR	Black (BK)	500 pcs.	634-01210

All dimensions in mm. Subject to technical changes.



For punched or drilled metal sheets

Edge protection grommets

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

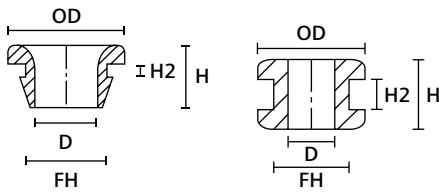
Features and benefits

- 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	UL 94 HB	UL 94 V0

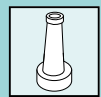


HV1502

HV1201 - HV1218

TYPE	Drawing	Outside Ø (OD)	Hole Ø (FH)	Ø (D)	Height (H)	Height (H2)	Variant	Material	Colour	Pack Cont.	Article-No.
HV1101		25.5	19.0	12.0	10.0	1.6	Round	PVC-FR	Black (BK)	500 pcs.	633-01010

All dimensions in mm. Subject to technical changes.



For punched or drilled metal sheets

Edge protection grommets

TYPE	Drawing	Outside Ø (OD)	Hole Ø (FH)	Ø (D)	Height (H)	Height (H2)	Variant	Material	Colour	Pack Cont.	Article-No.
HV1212		9.0	6.0	4.0	7.0	1.0	Round	PVC-FR	Black (BK)	2000 pcs.	633-02120
HV1201		9.5	6.4	4.0	5.6	1.6	Round	PVC-FR	Black (BK)	2000 pcs.	633-02010
HV1201B		9.5	6.4	4.0	6.5	2.5	Round	PVC-FR	Black (BK)	2000 pcs.	633-02020
HV1215		10.0	8.0	6.0	5.0	1.0	Round	PVC-FR	Black (BK)	2000 pcs.	633-02150
HV1209		11.0	9.0	4.0	5.5	1.5	Round	PVC-FR	Black (BK)	1000 pcs.	633-02090
HV1208		14.0	9.5	8.0	8.0	1.5	Round	PVC-FR	Black (BK)	1000 pcs.	633-02080
HV1207		14.0	10.0	6.0	6.4	1.5	Round	PVC-FR	Black (BK)	1000 pcs.	633-02070
HV1218		14.0	10.0	6.0	9.0	4.0	Round	PVC-FR	Black (BK)	1000 pcs.	633-02180
HV1216		14.5	8.0	5.0	6.5	1.5	Round	PVC-FR	Black (BK)	2000 pcs.	633-02160
HV1210		15.0	9.0	6.0	10.5	2.0	Round	PVC-FR	Black (BK)	1000 pcs.	633-02100
HV1203		17.5	12.0	10.0	6.8	2.0	Round	PVC-FR	Black (BK)	1000 pcs.	633-02030
HV1204		17.5	12.0	10.0	8.8	4.0	Round	PVC-FR	Black (BK)	1000 pcs.	633-02040
HV1206		17.5	12.0	10.0	10.8	6.0	Round	PVC-FR	Black (BK)	1000 pcs.	633-02060
HV1205		17.5	13.5	10.0	8.7	4.0	Round	PVC-FR	Black (BK)	1000 pcs.	633-02050
HV1303			15.9	11.0	8.0	6.4	1.6	Round	PVC-FR	Black (BK)	1000 pcs.
HV1301	15.9		11.0	8.0	7.0	1.0	Round	PVC-FR	Black (BK)	1000 pcs.	633-03010
HV1302	15.9		11.0	8.0	9.0	3.0	Round	PVC-FR	Black (BK)	1000 pcs.	633-03020
HV1304	15.9		11.0	8.0	10.8	6.0	Round	PVC-FR	Black (BK)	1000 pcs.	633-03040
HV1305	24.0		18.0	14.0	7.0	3.0	Round	PVC-FR	Black (BK)	500 pcs.	633-03050
	24.0	18.0	14.0	7.0	3.0	Round	PVC-FR	White (WH)	500 pcs.	633-03059	
HV1401		15.9	9.5	5.0	4.8	0.8	Round	PVC-FR	Black (BK)	1000 pcs.	633-04010
HV1402		23.0	18.5	6.0	7.0	2.0	Round	PVC-FR	Black (BK)	1000 pcs.	633-04020
HV1502		11.5	8.0	6.5	8.0	1.5	Round	PVC	Black (BK)	2000 pcs.	633-05020
HV1606		31.0	25.0	17.0	11.0	3.0	Oval	PVC-FR	Grey (GY)	500 pcs.	633-06068
HV1607		43.0	37.0	29.0	11.0	3.0	Oval	PVC-FR	Grey (GY)	250 pcs.	633-06078
HV1608		58.0	52.0	44.0	11.0	3.0	Oval	PVC-FR	Grey (GY)	250 pcs.	633-06088

All dimensions in mm. Subject to technical changes.



Bend and edge protection grommet set

HOT Kit

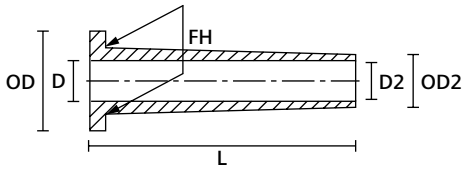
The practical mix of grommets for construction, repairs and home improvement.

Features and benefits

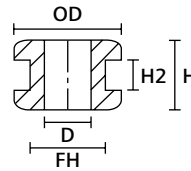
- Flexible and easy to apply
- High resistance to chemicals and environmental influences



HOT Grommet assortment kit.



HV2101



HV1201 - HV1218

Product Group	Type	Content	Article-No.
Bend and edge protection grommet set	HOT Kit	-	639-60000
Bend protection grommets	HV2101	15	632-01010
	HV2210	15	632-02100
	HV2213	20	632-02130
Edge protection grommets	HV1201	20	633-02010
	HV1203	15	633-02030
	HV1208	15	633-02080

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

Even big things have small beginnings.

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

www.HellermannTyton.com/made-for-real

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