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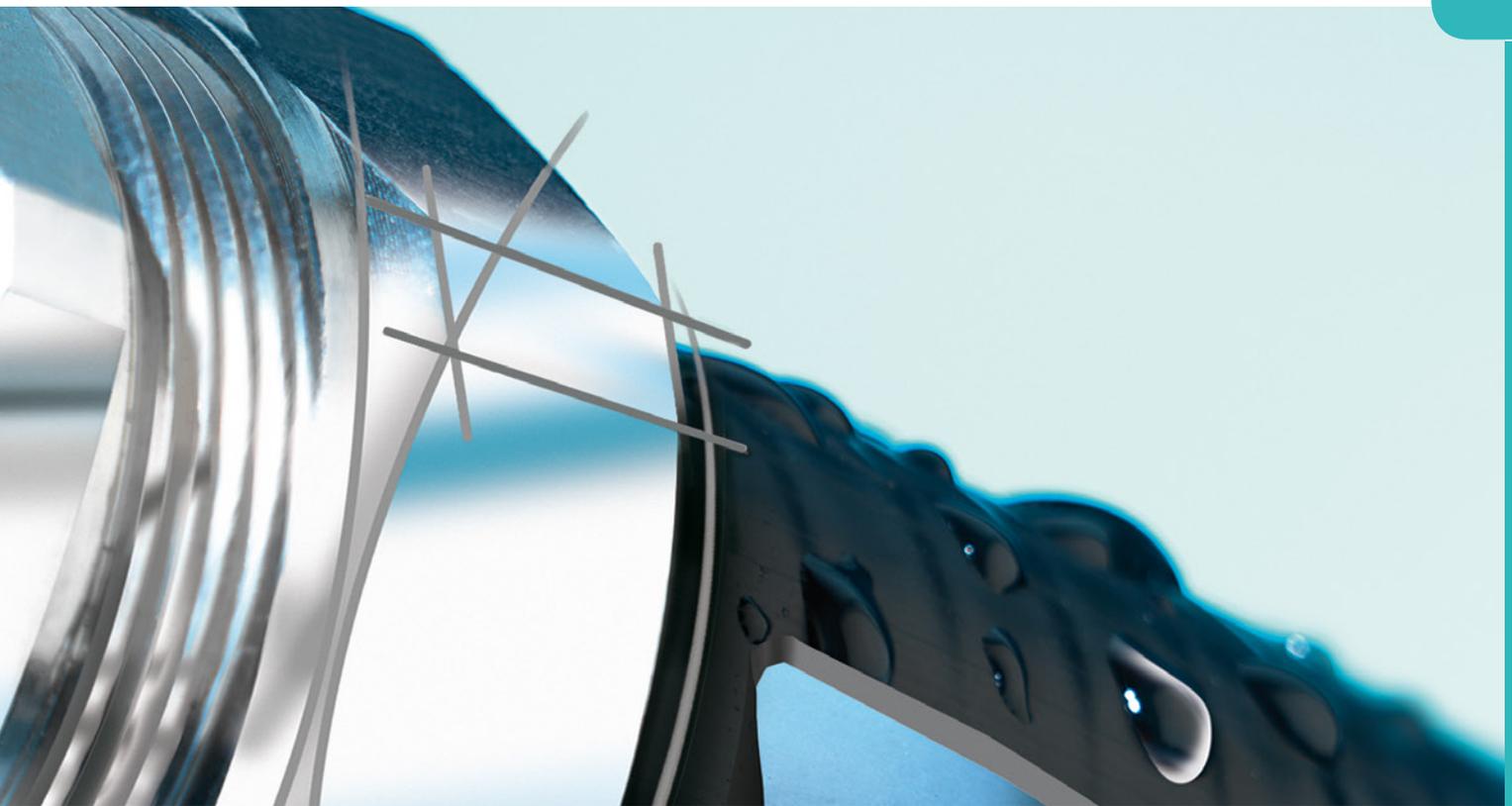
3.1 Non-Metallic Conduit Systems

Non-Metallic Conduits

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Metallic Conduits with Liquid-Tight Cover

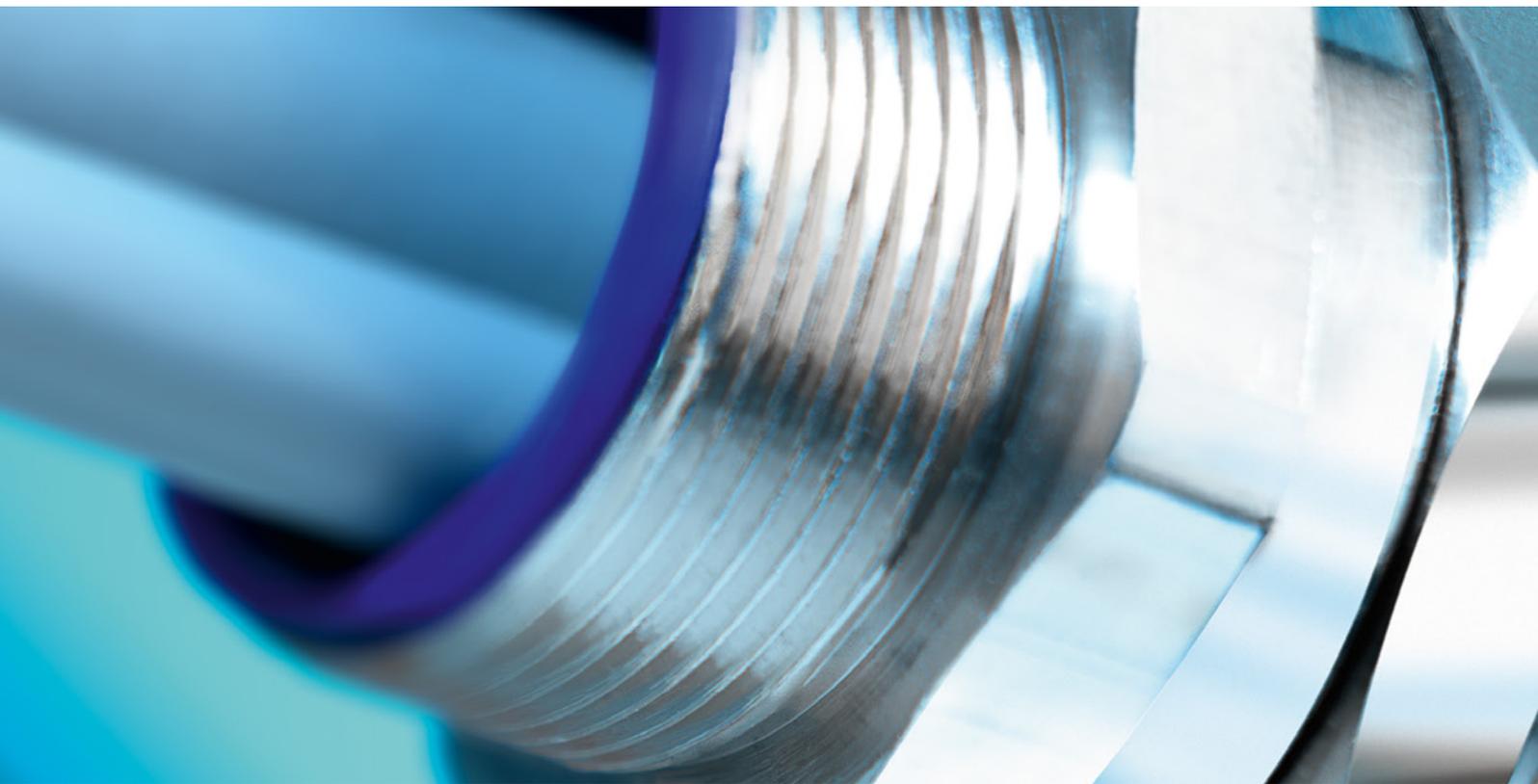
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Fittings for Metallic Conduits with Liquid-Tight Cover, IP68 and IP69

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Fittings for Metallic Conduits with Plastic Coating and Metallic Overbraid

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PCSB-SMC IP65 compression fitting, swivel thread	326
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Metallic Conduits with Metallic Overbraid

SCSB galvanised steel, galvanised steel overbraid	328
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Fittings for Metallic Conduits with Metallic Overbraid

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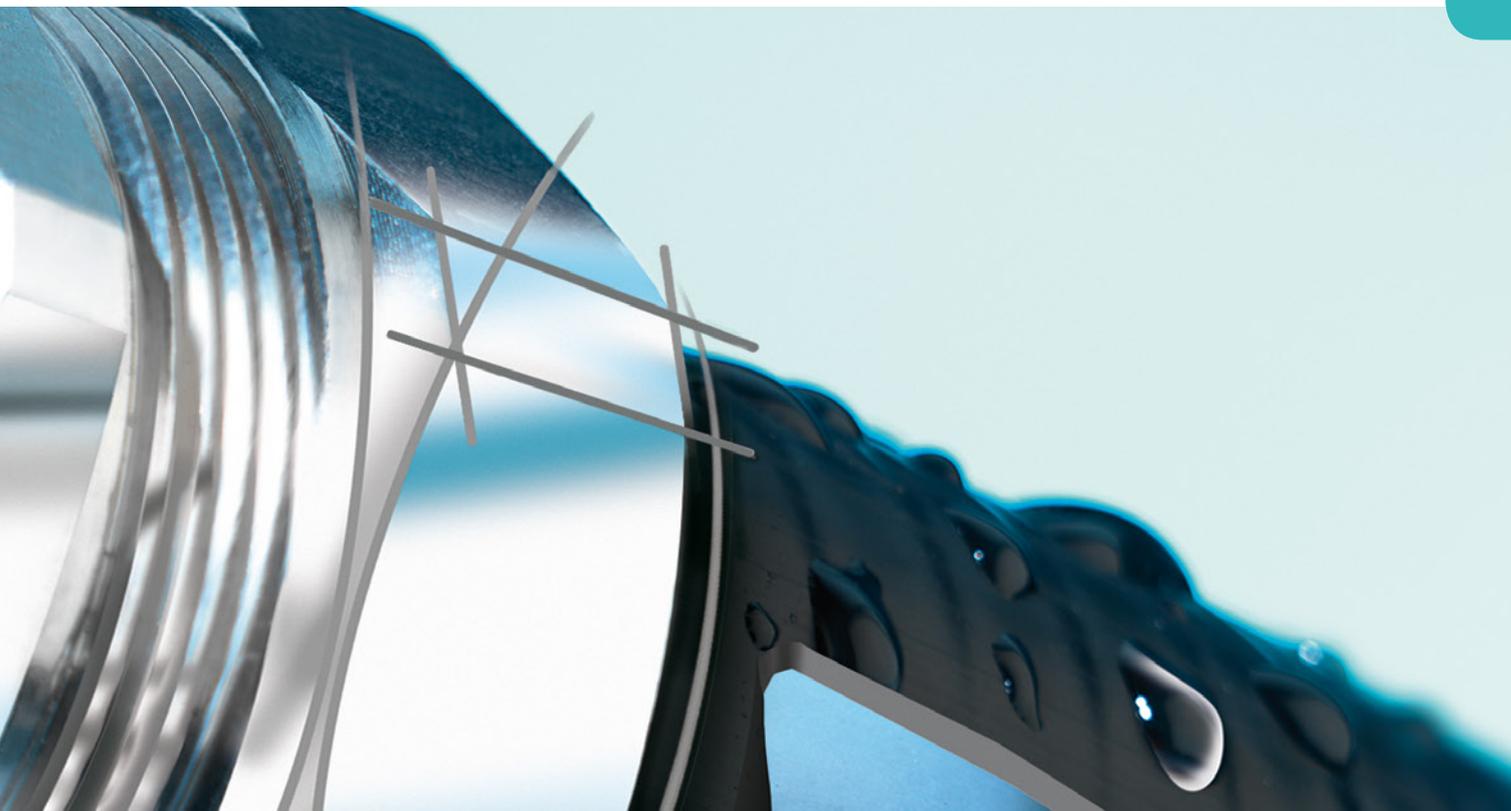
FlexiGuard Conduits & Fittings

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3.4 Conduit System Accessories

HelaGuard Accessories

Conduit Clips	PACC for corrugated conduits	346
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3.5 Protective Tubing and Spiral Binding

Helawrap Cable Cover and Accessories

Helawrap in polyamide 6, UL94 V0	361
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Spiral Binding

SBPEFR polyethylene, flame-retardant	364
SBPAV0 polyamide 6, flame-retardant	365
SBPTFE, PTFE	366
SPS narrow pitch	367
SPF wide pitch	368

3.6 Braided Sleeving

Helagaine Braided Sleeving

HEGP standard polyester	369
HEGPX high-expansion polyester	370
HEGPV0 polyester, flame-retardant	371
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HelaGuard Application Overview

Conduit System	IP rating available	Compression strength kg/100 mm, 20 mm Ø	Pull-off strength kg, 20 mm Ø	Minimum bend radius 20 mm Ø
HG-SW PA6 corrugated, standard weight	IP66, IP67, IP68, IP69k	75	40	45
HG-LW PA6 corrugated, light weight	IP66, IP67, IP68, IP69k	60	30	40
HG-HW PA6 corrugated, heavy weight	IP66, IP67, IP68, IP69k	120	70	55
HG-FR Flame retardant PA6 corrugated, standard weight	IP66, IP67, IP68, IP69k	75	40	45
HG-HI PA12 corrugated, standard weight	IP66, IP67, IP68, IP69k	45	30	35
HG-DC PA6 double slit corrugated	IP40	60	15	90
HG-PP PP corrugated	IP40, IP66 IP67, IP68	35	25	40
SC galvanised steel	IP40	350	120	45
SSC stainless steel	IP40	400	170	45
PCS galvanised steel, PVC coated	IP54, IP65	350	120	45
NCS galvanised steel, PA6 coated	IP54, IP65	350	120	45
LFHCS galvanised steel, LFH coated	IP54, IP65	350	120	45
LTS galvanised steel, PVC coated, liquid-tight	IP66, IP67, IP68, IP69k	400	130	65
LTSH galvanised steel, thermoplastic rubber, liquid-tight	IP66, IP67, IP68, IP69k	400	130	65
LTSUL galvanised steel, PVC coated, liquid-tight, UL-listed	IP66, IP67, IP68, IP69k	500	160	90
PCSB galvanised steel, PVC coated, galvanised steel overbraid	IP54, IP65	350	120,130	45
SCSB galvanised steel, galvanised steel overbraid	IP40	350	120	45
PSR Spiral-reinforced PVC, smooth bore	IP66, IP67	60	25	35
PSRSC Spiral-reinforced PVC, smooth bore, smooth cover	IP66, IP67, IP68, IP69k	120	70	35

- yes
- no

	<i>High fatigue life</i>	<i>Temperature range</i>	<i>Flexible</i>	<i>Halogen free</i>	<i>Self-extinguishing</i>	<i>High abrasion resistance</i>	<i>High UV resistance (black)</i>	<i>Page Number</i>
	■	-40 °C to +120 °C	■	■	■	■	■	241
	■	-40 °C to +120 °C	■	■	■	-	-	242
	-	-40 °C to +120 °C	■	■	■	■	■	243
	-	-40 °C to +120 °C	■	■	■	■	■	244
	■	-50 °C to +110 °C	■	■	■	-	■	245
	-	-40 °C to +120 °C	-	■	■	■	-	246
	-	+20 °C to +90 °C	■	-	■	-	-	247
	-	-100 °C to +300 °C	■	■	■	■	-	293
	-	-100 °C to +400 °C	■	■	■	■	■	294
	■	-15 °C to +70 °C	■	-	■	-	-	301
	-	-40 °C to +120 °C	■	■	■	■	-	302
	-	-25 °C to +90 °C	■	■	■	-	-	303
	-	-20 °C to +105 °C	■	-	■	-	■	312
	-	-45 °C to +135 °C	■	■	■	-	■	313
	-	-15 °C to +75 °C	■	-	■	-	■	314
	-	-15 °C to +70 °C	■	-	■	■	-	321
	-	-100 °C to +300 °C	■	■	■	-	-	328
	-	+20 °C to +70 °C	■	-	■	-	-	333
	-	+20 °C to +70 °C	■	-	■	-	-	334

IEC 61386 Classification for HelaGuard Flexible Conduits

	Compression Resistance (N)	Impact Resistance (J)	Minimum Temperature (°C)	Maximum Temperature (°C)
Non-Metallic Conduits based on nominal conduit size 21 mm				
HG-SW PA6 corrugated, standard weight (with HG fittings)	2	4	2	4
HG-LW PA6 corrugated, light weight (with HG fittings)	2	4	2	4
HG-HW PA6 corrugated, heavy weight (with HGL fittings)	2	4	2	4
HG-FR Flame retardant corrugated, standard weight (with HGL fittings)	2	4	2	4
HG-HI PA12 corrugated, standard weight (with HG fittings)	1	3	5	4
HG-DC PA6 double slit corrugated	2	4	2	4
HG-PP PP corrugated, standard weight	1	2	3	2
Metallic Conduits based on nominal conduit size 20 mm				
SC galvanised steel	4	4	5	6
SSC stainless steel	4	4	5	6
PCS galvanised steel, PVC coated (with compression fittings)	4	4	3	1
NCS galvanised steel, PA6 coated	4	4	4	4
LFHCS galvanised steel, LFH coated	4	4	3	1
LTS galvanised steel, PVC coated, liquid-tight (with compression fittings)	4	4	3	3
LTSH galvanised steel, PVC coated, liquid-tight (with compression fittings)	4	4	5	4
LTSUL galvanised steel, PVC coated, liquid-tight, UL-listed	4	4	3	3
PCSB galvanised steel, PVC coated, galvanised steel overbraid	4	4	3	1
SCSB galvanised steel, galvanised steel overbraid	4	4	5	6
PVC Conduits based on nominal conduit size 20 mm				
PSR Spiral-reinforced PVC, smooth bore	2	3	2	1
PSRSC Spiral-reinforced PVC, smooth bore, smooth cover with PSR fitting	2	3	2	1
PSRSC Spiral-reinforced PVC, smooth bore, smooth cover with PSR fitting	2	3	2	1
FlexiGuard and FlexiGuard Plus Conduits				
FG PVC-Conduit with spring steel wire	2	2	2	1

IEC 61386 Classification Key	Compression Resistance (N)	Impact Resistance (J)	Minimum Temperature (°C)	Maximum Temperature (°C)	Bend Resistance	Electrical Properties	IP Rating against solid objects
0	–	–	–	–	–	non-declared	–
1	125	0.5	5	60	rigid	conducting	–
2	320	1	-5	90	pliable	insulating	–
3	750	2	-15	105	pliable, self-recovering	conducting/insulating	3
4	1250	6	-25	120	flexible	–	4
5	4000	20	-45	150	–	–	5
6	–	–	–	250	–	–	6
7	–	–	–	400	–	–	7

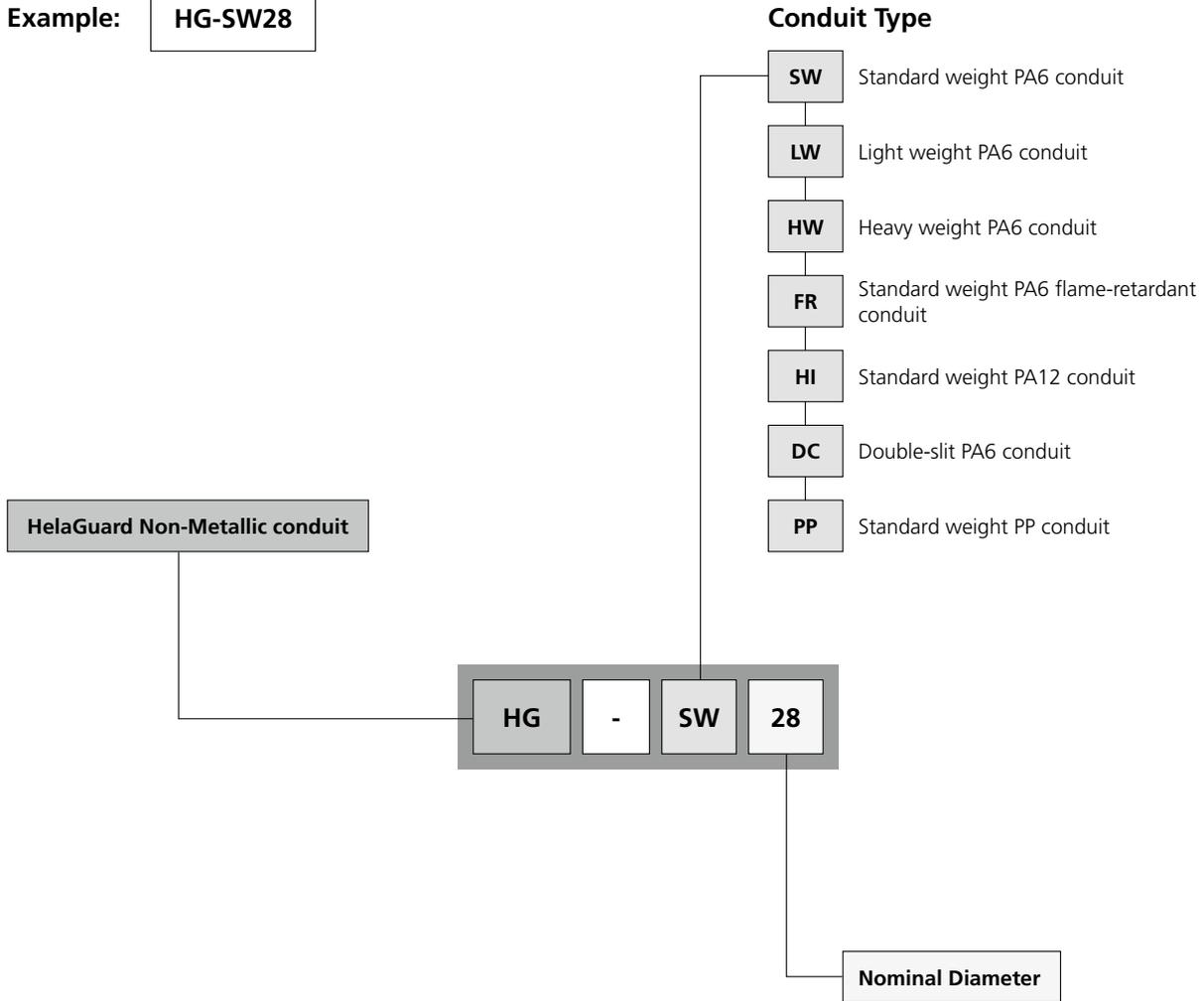
Bend Resistance	Electrical Properties	IP Rating against solid objects	IP Rating against water	Corrosion Resistance	Tensile strength	Resistance to Flame Propagation	Suspended Load Capacity (N)	Page Nr.
4	0	6	6	-	2	1	0	241
4	0	6	6	-	1	1	0	242
4	0	6	8	-	3	1	0	243
4	0	6	8	-	2	1	0	244
4	0	6	6	-	1	1	0	245
4	0	4	0	-	2	1	0	246
4	2	6	6	4	2	2	0	247
4	0	4	0	1	4	1	0	293
4	0	4	0	4	4	1	0	294
4	0	6	5	2	4	1	0	301
4	0	6	4	2	4	1	0	302
4	0	6	5	2	4	1	0	303
4	0	6	8	4	4	1	0	312
4	0	6	8	4	4	1	0	313
4	0	6	8	4	4	1	0	314
4	0	5	4	2	4	1	0	321
4	0	4	0	1	4	1	0	328
4	2	6	5	-	2	1	0	333
4	2	6	7	-	3	1	0	334
4	2	6	8	-	3	1	0	334
4	2	3	0	4	1	1	1	343

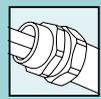
IP Rating against water	Corrosion Resistance	Tensile Strength	Resistance to Flame Propagation	Suspended Load Capacity (N)
0	-	-	-	non-declared
1	low inside and outside	100	not flame-propagating	20
2	medium inside and outside	250	flame-propagating	30
3	medium inside, high outside	500	-	150
4	high inside and outside	1000	-	450
5	-	2500	-	850
6	-	-	-	-
7	-	-	-	-

For more information about Degrees of Protection please refer to page 467.

HelaGuard Nomenclature for Non-Metallic Conduits

Example: **HG-SW28**





Non-Metallic Conduits

- **HG-SW PA6 Standard Weight**

Machine building, plant construction, control panels, public buildings.

Features and Benefits

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



HelaGuard PA6 Standard for industrial applications.



One Step to the Web!

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +120 °C
Operating Temperature Moving	-20 °C to +100 °C
Flammability	UL94 V2
Specifications	IEC 61386, Lloyd's Register, UL-Recognised

HF ✓

RoHS ✓

TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
HG-SW10	10	7.5	10.0	6.3	15	19	50 m	Black (BK)	166-11100
HG-SW11	11	8.5	11.5	8.2	20	22	50 m	Black (BK)	166-11101
HG-SW13	13	10	13.0	9.8	25	28	50 m	Black (BK)	166-11102
HG-SW16	16	12	15.8	11.8	35	38	25 m	Black (BK)	166-11110
	16	12	15.8	11.8	35	38	50 m	Black (BK)	166-11103
HG-SW21	21	17	21.2	16.7	45	60	25 m	Black (BK)	166-11111
	21	17	21.2	16.7	45	60	50 m	Black (BK)	166-11104
HG-SW28	28	23	28.5	22.8	50	100	25 m	Black (BK)	166-11105
	28	23	28.5	22.8	50	100	50 m	Black (BK)	166-11112
HG-SW34	34	29	34.5	28.1	60	135	25 m	Black (BK)	166-11106
	34	29	34.5	28.1	60	135	50 m	Black (BK)	166-11118
HG-SW42	42	36	42.5	35.5	70	165	25 m	Black (BK)	166-11113
HG-SW54	54	48	54.5	47.2	80	235	25 m	Black (BK)	166-11114
HG-SW67	67	56	67.2	56.3	130	365	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! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Non-Metallic Conduits

• HG-LW PA6 Light Weight

Machine building, plant construction, control panels and public buildings, wherever lower mechanical protection is required.

Features and Benefits

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



HelaGuard PA6 Light is very flexible and can be used in moving applications.

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

HF ✓

RoHS ✓

TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
HG-LW10	10	7.5	10.0	6.5	15	18	50 m	Black (BK)	166-11200
HG-LW11	11	8.5	11.5	8.4	20	22	50 m	Black (BK)	166-11201
HG-LW13	13	10	13.0	9.8	25	24	50 m	Black (BK)	166-11202
HG-LW16	16	12	15.8	11.8	35	36	50 m	Black (BK)	166-11203
HG-LW21	21	17	21.2	16.7	40	56	50 m	Black (BK)	166-11204
HG-LW28	28	23	28.5	23	45	90	50 m	Black (BK)	166-11205
HG-LW34	34	29	34.5	28.1	55	110	50 m	Black (BK)	166-11206
HG-LW42	42	36	42.5	35.5	65	150	25 m	Black (BK)	166-11207
HG-LW54	54	48	54.5	47.2	80	200	25 m	Black (BK)	166-11208
HG-LW67	67	56	67.2	56.5	110	310	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.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Non-Metallic Conduits

- **HG-HW PA6 Heavy Weight**

Heavy-duty machine building, plant construction, and public buildings, wherever high mechanical strength is required.

Features and Benefits

- Heavy weight
- High mechanical strength
- Very abrasion resistant
- High impact strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Low smoke and low toxicity
- Self-extinguishing according to UL94 V2
- Colour: black (UV resistant)



When high mechanical protection is needed: HelaGuard PA6 Heavy.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +120 °C
Flammability	UL94 V2
Specifications	IEC 61386, UL-Recognised



TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
HG-HW13	13	10	13.0	9.0	35	37	50 m	Black (BK)	166-11302
HG-HW16	16	12	15.8	11.5	45	48	50 m	Black (BK)	166-11303
HG-HW21	21	17	21.2	15.5	55	80	50 m	Black (BK)	166-11304
HG-HW28	28	23	28.5	21.3	60	130	50 m	Black (BK)	166-11305
HG-HW34	34	29	34.5	26.9	70	170	25 m	Black (BK)	166-11306
HG-HW42	42	36	42.5	34.6	80	200	25 m	Black (BK)	166-11307
HG-HW54	54	48	54.5	46.0	90	270	25 m	Black (BK)	166-11308

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! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Non-Metallic Conduits

• HG-FR PA6 Flame Retardant

Railway vehicles, railway tunnels, underground stations and public buildings, where high fire protection is required.

Features and Benefits

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



Public buildings often require HelaGuard PA6 Flame Retardant due to its high fire protection properties.

MATERIAL	Polyamide 6, Flame retardant (PA6-FR)
Operating Temperature	-40 °C to +120 °C
Operating Temperature Moving	-20 °C to +100 °C
Flammability	UL94 V0
Specifications	CEN TS 45545-2: 2009, DIN 5510-2, IEC 61386, NF F 16-101/16-102, UL-Recognised



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

All dimensions in mm. Subject to technical changes.

Other reel lengths available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Non-Metallic Conduits

- **HG-HI PA12**

Robots, rail, machine building, plant construction and wherever continual movement and bending are requirements.

Features and Benefits

- Excellent fatigue life
- Very flexible
- Recovers form if crushed
- Good mechanical properties at low temperatures
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus
- Self-extinguishing to IEC 61386
- Colour: black (UV resistant)



HelaGuard PA12 is ideal for robotics.

MATERIAL	Polyamide 12 (PA12)
Operating Temperature	-50 °C to +110 °C
Flammability	self-extinguishing according to EN IEC 61386
Specifications	IEC 61386, UL-Recognised



TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
HG-HI13	13	10	13.0	9.8	25	26	50 m	Black (BK)	166-11501
HG-HI16	16	12	15.8	11.8	30	35	50 m	Black (BK)	166-11502
HG-HI21	21	17	21.2	16.7	35	55	50 m	Black (BK)	166-11503
HG-HI28	28	23	28.5	21.7	45	92	50 m	Black (BK)	166-11504
HG-HI34	34	29	34.5	28.1	55	120	25 m	Black (BK)	166-11505
HG-HI42	42	36	42.5	35.5	60	160	25 m	Black (BK)	166-11506
HG-HI54	54	48	54.5	47.2	70	220	25 m	Black (BK)	166-11507

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! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Non-Metallic Conduits

- **HG-DC Double Slit**

Control panels, machine building, plant construction and wherever retrofitting is a requirement.

Features and Benefits

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



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

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40 °C to +110 °C
Flammability	UL94 V2
Specifications	IEC 61386

HF ✓

RoHS ✓

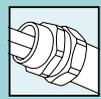
TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
HG-DC11	11	8.5	11.5	6.7	45	23	50 m	Black (BK)	166-11800
HG-DC13	13	10	13.0	7.9	55	37	50 m	Black (BK)	166-11801
HG-DC16	16	12	15.8	10.5	60	41	50 m	Black (BK)	166-11802
HG-DC21	21	17	21.2	13.9	90	63	50 m	Black (BK)	166-11803
HG-DC28	28	23	28.5	20.5	105	94	50 m	Black (BK)	166-11804
HG-DC34	34	29	34.5	27.0	150	118	25 m	Black (BK)	166-11805
HG-DC42	42	36	42.5	34.8	170	193	25 m	Black (BK)	166-11806
HG-DC54	54	48	54.5	45.3	170	263	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.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Non-Metallic Conduits

- HG-PP PP Standard Weight

Machine building, electrical installations, buildings, particularly when buried in concrete or plaster.

Features and Benefits

- Very flexible
- Abrasion resistant
- Resistant to acids and alkalis
- Self-extinguishing to IEC 61386



HelaGuard PP Standard is typically used in electrical installations and buildings, particularly when buried in concrete or plaster.

MATERIAL	Polypropylene (PP)
Operating Temperature	-20 °C to +90 °C
Flammability	self-extinguishing according to EN IEC 61386
Specifications	IEC 61386



TYPE	Nominal Ø	NW Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
HG-PP10	10	7.5	10.0	6.3	15	16	50 m	Black (BK)	166-11900
HG-PP13	13	10	13.0	9.8	25	20	50 m	Black (BK)	166-11901
HG-PP16	16	12	15.8	11.8	35	30	50 m	Black (BK)	166-11902
HG-PP20	20	16	20.0	14.8	40	45	50 m	Black (BK)	166-11903
HG-PP21	21	17	21.2	16.7	40	50	50 m	Black (BK)	166-11904
HG-PP25	25	22	25.0	19.1	50	52	50 m	Black (BK)	166-11905
HG-PP26	26	22	25.4	21.4	50	52	50 m	Black (BK)	166-11906
HG-PP28	28	23	28.5	22.8	55	65	50 m	Black (BK)	166-11907
HG-PP34	34	29	34.5	28.1	65	90	25 m	Black (BK)	166-11908
HG-PP42	42	36	42.5	35.5	80	120	25 m	Black (BK)	166-11909
HG-PP54	54	48	54.5	47.2	100	150	25 m	Black (BK)	166-11910
HG-PP67	67	56	67.2	56.3	150	250	10 m	Black (BK)	166-11911

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! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



HelaGuard Fitting Finder

Fixed external thread

HG-S Straight IP66		Page 252
HGL-S Straight IP68		Page 254
HG-90 90° Elbow IP66		Page 255
HGL-90 90° Elbow IP68		Page 257
HG-45 45° Elbow IP66		Page 258
HGL-45 45° Elbow IP68		Page 259

Swivel external thread

HG-SM Straight IP66		Page 260
HGL-SM Straight IP68		Page 261
HG-90M 90° Elbow IP66		Page 262

Swivel external thread

HGL-90M 90° Elbow IP68		Page 263
HG-45M 45° Elbow IP66		Page 264
HGL-45M 45° Elbow IP68		Page 265

Swivel internal thread

HG-SF Straight IP66		Page 266
HGL-SF Straight IP68		Page 267
HG-90F 90° Elbow IP66		Page 268
HGL-90F 90° Elbow IP68		Page 269
HG-45F 45° Elbow IP66		Page 270
HGL-45F 45° Elbow IP68		Page 271

Swivel flange

HG-SFL Straight IP66		Page 272
HGL-SFL Straight IP68		Page 273
HG-90FL 90° Elbow IP66		Page 274
HGL-90FL 90° Elbow IP68		Page 275
HG-45FL 45° Elbow IP66		Page 276
HGL-45FL 45° Elbow IP68		Page 277

With strain relief and cable seal

HG-45CG 45° Elbow IP66		Page 282
HGL-45CG 45° Elbow IP68		Page 283

Connectors, reducers and couplers

HG-T T-Connector IP66		Page 284
HGL-T T-Connector IP68		Page 285
HG-Y Y-Connector IP66		Page 286
HGL-Y Y-Connector IP68		Page 287
HG-R Reducer IP66		Page 288
HGL-R Reducer IP68		Page 289
HG-HG Coupler IP66		Page 290

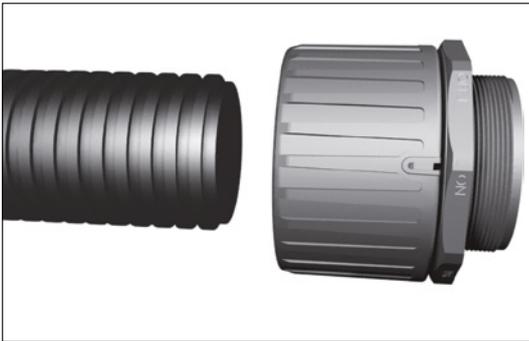
With strain relief and cable seal

HG-SCG Straight IP66		Page 278
HGL-SCG Straight IP68		Page 279
HG-90CG 90° Elbow IP66		Page 280
HGL-90CG 90° Elbow IP68		Page 281

Mounting and Removing HelaGuard Non-Metallic Fittings

HelaGuard plastic fittings are mounted simply, quickly and very securely. They offer exceptionally high pull-off strength and are vibration as well as tamper resistant. They can be removed with a screw driver. HelaGuard plastic fittings can be used again and again.

To mount and remove HelaGuard plastic fittings, follow these simple instructions.



1. If the fitting has been used before, be sure that the slit points to the 'on' position.

To assemble the fitting, push it on to the end of the conduit as far as possible without forcing it and twist it slightly. The fitting is now securely locked.



2. To remove the fitting, insert a small screw driver into the slit.



3. Move the handle of the screwdriver towards the 'off' position. The capnut will rotate slightly. The locking mechanism is now released.



4. Remove the screwdriver.



5. Manually rotate the capnut further towards the 'off position' as far as possible.



6. Simply remove the fitting from the end of the conduit.

To re-use HelaGuard plastic fittings, simply turn the capnut back to the 'on' position and mount it on to the end of the conduit.

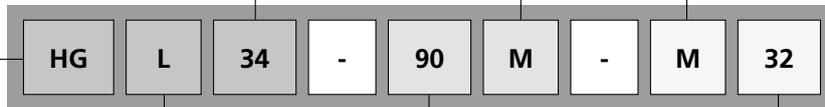
HelaGuard Nomenclature for Non-Metallic Fittings

Example: **HGL34-90M-M32**

Suitable Conduit Type

HG HelaGuard Non-Metallic conduit

Nominal Diameter



Thread Type

- M** Swivel external thread
- F** Swivel internal thread
- Fixed external thread
- FL** Flange
- CG** Cable gland

Thread Code

- M** Metric
- PG** Panzer-Gewinde

Thread Size

IP Protection

- L** IP67, IP68, IP69k fitting
- IP66 fitting

Fitting Shape

- 90** 90° elbow fitting
- 45** 45° elbow fitting
- S** Straight fitting
- T** T-connector
- Y** Y-connector
- R** Reducer
- HG** Conduit connector



Fittings with fixed external thread

- HG-S Straight, 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



HelaGuard HG-S Straight, IP66.

Fittings with UNEF and NPT threads available on request. Please contact us!

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
HG10-S-PG7	10	-	PG7	7.5	19	33	19	9	10 pcs.	Black (BK)	166-21010
HG10-S-PG9	10	-	PG9	9.5	19	35	19	11	10 pcs.	Black (BK)	166-21031
HG10-S-M12	10	M12	-	7.5	19	33	19	9	10 pcs.	Black (BK)	166-21000
HG10-S-M16	10	M16	-	9.5	19	35	19	11	10 pcs.	Black (BK)	166-21020
HG11-S-PG7	11	-	PG7	7.5	19	33	19	9	10 pcs.	Black (BK)	166-21032
HG11-S-M12	11	M12	-	7.5	19	33	19	9	10 pcs.	Black (BK)	166-21021
HG13-S-PG7	13	-	PG7	7.5	24	35	23	9	10 pcs.	Black (BK)	166-21033
HG13-S-PG9	13	-	PG9	11.0	24	37	23	11	10 pcs.	Black (BK)	166-21011
HG13-S-PG11	13	-	PG11	12.5	24	36	23	10	10 pcs.	Black (BK)	166-21034
HG13-S-M12	13	M12	-	7.5	24	35	23	9	10 pcs.	Black (BK)	166-21022
HG13-S-M16	13	M16	-	11.0	24	37	23	11	10 pcs.	Black (BK)	166-21001
HG13-S-M20	13	M20	-	12.5	24	40	23	14	10 pcs.	Black (BK)	166-21023

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with fixed external thread

- HG-S Straight, IP66

TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
HG16-S-PG9	16	-	PG9	11.0	29	41	28	11	10 pcs.	Black (BK)	166-21035
HG16-S-PG11	16	-	PG11	14.5	29	40	28	10	10 pcs.	Black (BK)	166-21012
HG16-S-PG13	16	-	PG13.5	14.5	29	40	28	10	10 pcs.	Black (BK)	166-21013
HG16-S-PG16	16	-	PG16	14.5	29	41	28	11	10 pcs.	Black (BK)	166-21036
HG16-S-M16	16	M16	-	11.0	29	41	28	11	10 pcs.	Black (BK)	166-21002
HG16-S-M20	16	M20	-	14.5	29	34	28	14	10 pcs.	Black (BK)	166-21003
HG18-S-PG13	18	-	PG13.5	16.5	32	40	30	10	10 pcs.	Black (BK)	166-21037
HG18-S-PG16	18	-	PG16	18.0	32	41	30	11	10 pcs.	Black (BK)	166-21038
HG18-S-M20	18	M20	-	14.5	32	44	30	14	10 pcs.	Black (BK)	166-21024
HG20-S-M20	20	M20	-	14.5	32	44	30	14	10 pcs.	Black (BK)	166-21025
HG21-S-PG13	21	-	PG13.5	16.5	32	40	30	10	10 pcs.	Black (BK)	166-21039
HG21-S-PG16	21	-	PG16	18.0	32	41	30	11	10 pcs.	Black (BK)	166-21014
HG21-S-PG21	21	-	PG21	20.5	32	42	30	12	10 pcs.	Black (BK)	166-21040
HG21-S-M20	21	M20	-	14.5	32	44	30	14	10 pcs.	Black (BK)	166-21004
HG25-S-M25	25	M25	-	19.5	39	49	37	15	10 pcs.	Black (BK)	166-21026
HG28-S-PG21	28	-	PG21	22.5	44	46	42	12	10 pcs.	Black (BK)	166-21015
HG28-S-PG29	28	-	PG29	27.5	44	46	42	12	10 pcs.	Black (BK)	166-21041
HG28-S-M25	28	M25	-	19.5	44	49	42	15	10 pcs.	Black (BK)	166-21005
HG28-S-M32	28	M32	-	26.5	44	50	42	16	10 pcs.	Black (BK)	166-21027
HG34-S-PG29	34	-	PG29	30.5	51	49	49	12	10 pcs.	Black (BK)	166-21016
HG34-S-M32	34	M32	-	26.5	51	53	49	16	10 pcs.	Black (BK)	166-21006
HG34-S-M40	34	M40	-	32.5	51	53	49	16	10 pcs.	Black (BK)	166-21028
HG42-S-PG36	42	-	PG36	40.0	63	56	60	12	2 pcs.	Black (BK)	166-21017
HG42-S-M40	42	M40	-	32.5	63	60	60	16	2 pcs.	Black (BK)	166-21007
HG42-S-M50	42	M50	-	40.5	63	60	60	16	2 pcs.	Black (BK)	166-21029
HG54-S-PG42	54	-	PG42	47.0	76	61	73	12	2 pcs.	Black (BK)	166-21042
HG54-S-PG48	54	-	PG48	52.0	76	61	73	12	2 pcs.	Black (BK)	166-21018
HG54-S-M50	54	M50	-	42.0	76	65	73	16	2 pcs.	Black (BK)	166-21008
HG54-S-M63	54	M63	-	53.0	76	65	73	16	2 pcs.	Black (BK)	166-21030
HG67-S-PG48	67	-	PG48	52.0	90	66	87	12	1 EA	Black (BK)	166-21019
HG67-S-M63	67	M63	-	56.0	90	70	87	16	1 EA	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! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with fixed external thread

- HGL-S Straight, IP68

Straight external thread with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

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



HelaGuard HGL-S Straight with conduit seal, IP68.

Fittings with UNEF and NPT threads available on request. Please contact us!

MATERIAL	Polyamide 6.6 (PA66), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
HGL13-S-PG9	13	-	PG9	11.5	24	37	23	11	10 pcs.	Black (BK)	166-21608
HGL13-S-M16	13	M16	-	11.0	24	37	22	11	10 pcs.	Black (BK)	166-21600
HGL16-S-PG9	16	-	PG9	11.5	29	41	28	11	10 pcs.	Black (BK)	166-21623
HGL16-S-PG11	16	-	PG11	14.5	29	40	28	10	10 pcs.	Black (BK)	166-21609
HGL16-S-PG13	16	-	PG13.5	15.0	29	40	28	10	10 pcs.	Black (BK)	166-21610
HGL16-S-PG16	16	-	PG16	15.0	29	41	28	11	10 pcs.	Black (BK)	166-21624
HGL16-S-M16	16	M16	-	11.0	29	41	28	11	10 pcs.	Black (BK)	166-21601
HGL16-S-M20	16	M20	-	14.5	29	44	28	14	10 pcs.	Black (BK)	166-21602
HGL21-S-PG13	21	-	PG13.5	16.5	32	40	30	10	10 pcs.	Black (BK)	166-21625
HGL21-S-PG16	21	-	PG16	18.0	32	41	30	11	10 pcs.	Black (BK)	166-21611
HGL21-S-PG21	21	-	PG21	20.5	32	42	30	12	10 pcs.	Black (BK)	166-21626
HGL21-S-M20	21	M20	-	14.5	32	44	30	14	10 pcs.	Black (BK)	166-21603
HGL28-S-PG21	28	-	PG21	22.5	44	46	42	12	10 pcs.	Black (BK)	166-21612
HGL28-S-PG29	28	-	PG29	30.0	44	47	42	12	10 pcs.	Black (BK)	166-21627
HGL28-S-M25	28	M25	-	19.5	44	50	42	15	10 pcs.	Black (BK)	166-21604
HGL28-S-M32	28	M32	-	26.5	44	51	42	16	10 pcs.	Black (BK)	166-21619
HGL34-S-PG29	34	-	PG29	30.0	51	49	49	12	10 pcs.	Black (BK)	166-21613
HGL34-S-M32	34	M32	-	26.5	51	53	49	16	10 pcs.	Black (BK)	166-21605
HGL34-S-M40	34	M40	-	32.5	51	55	49	16	10 pcs.	Black (BK)	166-21620

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with fixed external thread

- HGL-S Straight, IP68

TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
HGL42-S-PG36	42	-	PG36	40.0	63	56	60	12	2 pcs.	Black (BK)	166-21614
HGL42-S-M40	42	M40	-	32.5	63	61	60	16	2 pcs.	Black (BK)	166-21606
HGL42-S-M50	42	M50	-	40.5	63	61	73	16	2 pcs.	Black (BK)	166-21621
HGL54-S-PG42	54	-	PG42	47.0	76	61	73	12	2 pcs.	Black (BK)	166-21628
HGL54-S-PG48	54	-	PG48	52.0	76	61	73	12	2 pcs.	Black (BK)	166-21616
HGL54-S-M50	54	M50	-	42.0	76	65	73	16	2 pcs.	Black (BK)	166-21607
HGL54-S-M63	54	M63	-	53.0	76	65	73	16	2 pcs.	Black (BK)	166-21622

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.

Fittings with fixed external thread

- HG-90 90° Elbow, 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



HelaGuard HG-90 90° Elbow, IP66.

Fittings with UNEF and NPT threads available on request. Please contact us!

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
HG10-90-PG7	10	-	PG7	6.5	19	32	16	8	10 pcs.	Black (BK)	166-22210
HG10-90-M12	10	M12	-	6.5	19	32	17	8	10 pcs.	Black (BK)	166-22200
HG11-90-M12	11	M12	-	6.5	19	32	17	8	10 pcs.	Black (BK)	166-22220
HG13-90-PG9	13	-	PG9	10.5	24	46	22	10	10 pcs.	Black (BK)	166-22211
HG13-90-M16	13	M16	-	10.5	24	46	22	11	10 pcs.	Black (BK)	166-22201

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Fittings with fixed external thread

- HG-90 90° Elbow, IP66

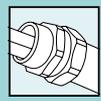
TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
HG16-90-PG9	16	-	PG9	10.5	29	49	22	10	10 pcs.	Black (BK)	166-22225
HG16-90-PG11	16	-	PG11	10.5	29	49	24	10	10 pcs.	Black (BK)	166-22212
HG16-90-PG13	16	-	PG13.5	14.0	29	51	26	11	10 pcs.	Black (BK)	166-22213
HG16-90-M16	16	M16	-	10.5	29	49	22	11	10 pcs.	Black (BK)	166-22202
HG16-90-M20	16	M20	-	14.0	29	51	27	13	10 pcs.	Black (BK)	166-22203
HG21-90-PG13	21	-	PG13.5	14.0	32	53	26	11	10 pcs.	Black (BK)	166-22227
HG21-90-PG16	21	-	PG16	14.0	32	53	27	11	10 pcs.	Black (BK)	166-22214
HG21-90-M20	21	M20	-	14.0	32	53	27	13	10 pcs.	Black (BK)	166-22204
HG25-90-M25	25	M25	-	19.0	39	63	32	15	10 pcs.	Black (BK)	166-22222
HG28-90-PG21	28	-	PG21	19.0	44	66	35	12	10 pcs.	Black (BK)	166-22215
HG28-90-M25	28	M25	-	19.0	44	66	32	15	10 pcs.	Black (BK)	166-22205
HG34-90-PG29	34	-	PG29	24.5	51	75	44	12	10 pcs.	Black (BK)	166-22216
HG34-90-M32	34	M32	-	24.5	51	75	40	16	10 pcs.	Black (BK)	166-22206
HG42-90-PG36	42	-	PG36	39.0	63	99	57	12	2 pcs.	Black (BK)	166-22217
HG42-90-M40	42	M40	-	32.5	63	98	50	16	2 pcs.	Black (BK)	166-22207
HG42-90-M50	42	M50	-	39.0	63	99	60	16	2 pcs.	Black (BK)	166-22223
HG54-90-PG48	54	-	PG48	49.5	76	104	70	15	2 pcs.	Black (BK)	166-22218
HG54-90-M50	54	M50	-	39.0	76	104	60	16	2 pcs.	Black (BK)	166-22208
HG54-90-M63	54	M63	-	49.5	76	104	72	16	2 pcs.	Black (BK)	166-22224
HG67-90-PG48	67	-	PG48	49.5	90	120	70	15	1 EA	Black (BK)	166-22219
HG67-90-M63	67	M63	-	49.5	90	120	72	16	1 EA	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.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with fixed external thread

- HGL-90 90° Elbow, IP68

90° elbow, external thread with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

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



HelaGuard HGL-90 90° Elbow with conduit seal, IP68.

Fittings with UNEF and NPT threads available on request. Please contact us!

MATERIAL	Polyamide 6.6 (PA66), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
HGL13-90-PG9	13	-	PG9	10.5	24	46	22	10	10 pcs.	Black (BK)	166-22808
HGL13-90-M16	13	M16	-	10.5	24	46	22	11	10 pcs.	Black (BK)	166-22800
HGL16-90-PG9	16	-	PG9	10.5	29	49	22	10	10 pcs.	Black (BK)	166-22820
HGL16-90-PG11	16	-	PG11	10.5	29	49	24	10	10 pcs.	Black (BK)	166-22809
HGL16-90-PG13	16	-	PG13.5	14.0	29	51	26	11	10 pcs.	Black (BK)	166-22810
HGL16-90-M16	16	M16	-	10.5	29	49	22	11	10 pcs.	Black (BK)	166-22801
HGL16-90-M20	16	M20	-	14.0	29	51	27	13	10 pcs.	Black (BK)	166-22802
HGL21-90-PG13	21	-	PG13.5	14.0	32	53	26	11	10 pcs.	Black (BK)	166-22821
HGL21-90-PG16	21	-	PG16	14.0	32	53	26	11	10 pcs.	Black (BK)	166-22811
HGL21-90-M20	21	M20	-	14.0	32	53	27	13	10 pcs.	Black (BK)	166-22803
HGL28-90-PG21	28	-	PG21	19.0	44	66	35	12	10 pcs.	Black (BK)	166-22812
HGL28-90-M25	28	M25	-	19.0	44	66	32	15	10 pcs.	Black (BK)	166-22804
HGL34-90-PG29	34	-	PG29	24.5	51	75	44	12	10 pcs.	Black (BK)	166-22813
HGL34-90-M32	34	M32	-	24.5	51	75	40	16	10 pcs.	Black (BK)	166-22805
HGL42-90-PG36	42	-	PG36	39.0	63	99	57	12	2 pcs.	Black (BK)	166-22814
HGL42-90-M40	42	M40	-	32.0	63	98	50	16	2 pcs.	Black (BK)	166-22806
HGL42-90-M50	42	M50	-	39.0	63	99	60	16	2 pcs.	Black (BK)	166-22818
HGL54-90-PG48	54	-	PG48	49.5	76	104	70	15	2 pcs.	Black (BK)	166-22815
HGL54-90-M50	54	M50	-	39.0	76	104	60	16	2 pcs.	Black (BK)	166-22807
HGL54-90-M63	54	M63	-	49.5	76	104	72	16	2 pcs.	Black (BK)	166-22819

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with fixed external thread

- HG-45 45° Elbow, IP66

45° 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



HelaGuard HG-45 45° Elbow, IP66.

Fittings with UNEF and NPT threads available on request. Please contact us!

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



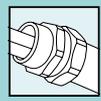
TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
HG16-45-PG13	16	-	PG13.5	14.0	29	58	26	11	10 pcs.	Black (BK)	166-23406
HG16-45-M20	16	M20	-	14.0	29	58	27	13	10 pcs.	Black (BK)	166-23400
HG21-45-PG13	21	-	PG13.5	14.0	32	61	26	11	10 pcs.	Black (BK)	166-23407
HG21-45-PG16	21	-	PG16	14.0	32	61	27	11	10 pcs.	Black (BK)	166-23408
HG21-45-M20	21	M20	-	14.0	32	61	27	13	10 pcs.	Black (BK)	166-23401
HG28-45-PG21	28	-	PG21	19.0	44	73	35	12	10 pcs.	Black (BK)	166-23409
HG28-45-M25	28	M25	-	19.0	44	73	32	15	10 pcs.	Black (BK)	166-23402
HG34-45-PG29	34	-	PG29	24.5	51	81	44	12	10 pcs.	Black (BK)	166-23410
HG34-45-M32	34	M32	-	24.5	51	81	40	16	10 pcs.	Black (BK)	166-23403
HG42-45-PG36	42	-	PG36	39.0	63	98	57	12	2 pcs.	Black (BK)	166-23411
HG42-45-M50	42	M50	-	39.0	63	98	60	16	2 pcs.	Black (BK)	166-23404
HG54-45-M50	54	M50	-	39.0	76	106	60	16	2 pcs.	Black (BK)	166-23405

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with fixed external thread

- HGL-45 45° Elbow, IP68

45° elbow external thread with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

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



HelaGuard HGL-45 45° Elbow with conduit seal, IP68.

Fittings with UNEF and NPT threads available on request. Please contact us!

MATERIAL	Polyamide 6.6 (PA66), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
HGL16-45-PG13	16	-	PG13.5	14.0	29	58	26	11	10 pcs.	Black (BK)	166-24006
HGL16-45-M20	16	M20	-	14.0	29	58	27	13	10 pcs.	Black (BK)	166-24000
HGL21-45-PG13	21	-	PG13.5	14.0	32	61	26	11	10 pcs.	Black (BK)	166-24007
HGL21-45-PG16	21	-	PG16	14.0	32	61	27	11	10 pcs.	Black (BK)	166-24008
HGL21-45-M20	21	M20	-	14.0	32	61	27	13	10 pcs.	Black (BK)	166-24001
HGL28-45-PG21	28	-	PG21	19.0	44	73	35	12	10 pcs.	Black (BK)	166-24009
HGL28-45-M25	28	M25	-	19.0	44	73	32	15	10 pcs.	Black (BK)	166-24002
HGL34-45-PG29	34	-	PG29	24.5	51	81	44	12	10 pcs.	Black (BK)	166-24010
HGL34-45-M32	34	M32	-	24.5	51	81	40	16	10 pcs.	Black (BK)	166-24003
HGL42-45-PG36	42	-	PG36	39.0	63	98	57	12	2 pcs.	Black (BK)	166-24011
HGL42-45-M50	42	M50	-	39.0	63	98	60	16	2 pcs.	Black (BK)	166-24004
HGL54-45-M50	54	M50	-	39.0	76	107	60	16	2 pcs.	Black (BK)	166-24005

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel external thread

- HG-SM Straight Swivel External Thread, IP66

Straight swivel brass 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



HelaGuard HG-SM Straight Swivel External Thread, IP66.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



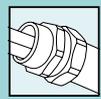
TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HG13-SM-PG9	13	-	PG9	11.0	24	49	22	10	10 pcs.	Black (BK)	166-21309
HG13-SM-M16	13	M16	-	11.0	24	51	20	12	10 pcs.	Black (BK)	166-21300
HG16-SM-PG9	16	-	PG9	11.0	29	50	22	10	10 pcs.	Black (BK)	166-21310
HG16-SM-PG11	16	-	PG11	11.0	29	52	24	12	10 pcs.	Black (BK)	166-21311
HG16-SM-M16	16	M16	-	11.0	29	57	20	12	10 pcs.	Black (BK)	166-21301
HG16-SM-M20	16	M20	-	14.5	29	57	24	12	10 pcs.	Black (BK)	166-21302
HG21-SM-PG13	21	-	PG13.5	14.5	32	55	24	10	10 pcs.	Black (BK)	166-21312
HG21-SM-PG16	21	-	PG16	14.5	32	58	29	13	10 pcs.	Black (BK)	166-21313
HG21-SM-M20	21	M20	-	14.5	32	57	24	12	10 pcs.	Black (BK)	166-21303
HG28-SM-PG21	28	-	PG21	19.5	44	64	35	14	10 pcs.	Black (BK)	166-21314
HG28-SM-M25	28	M25	-	19.5	44	62	29	12	10 pcs.	Black (BK)	166-21304
HG34-SM-PG29	34	-	PG29	26.5	51	68	42	14	10 pcs.	Black (BK)	166-21315
HG34-SM-M32	34	M32	-	26.5	51	67	38	13	10 pcs.	Black (BK)	166-21305
HG42-SM-M40	42	M40	-	32.5	63	79	50	15	2 pcs.	Black (BK)	166-21306
HG54-SM-M50	54	M50	-	42.0	76	85	58	17	2 pcs.	Black (BK)	166-21307

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel external thread

- HGL-SM Straight Swivel External Thread, IP68

Straight swivel brass external thread with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

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



HelaGuard HGL-SM Straight Swivel External Thread with conduit seal, IP68.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HGL13-SM-PG9	13	-	PG9	11.0	24	49	22	10	10 pcs.	Black (BK)	166-21909
HGL13-SM-M16	13	M16	-	11.0	24	51	20	12	10 pcs.	Black (BK)	166-21900
HGL16-SM-PG9	16	-	PG9	11.0	29	50	22	10	10 pcs.	Black (BK)	166-21910
HGL16-SM-PG11	16	-	PG11	11.0	29	52	24	12	10 pcs.	Black (BK)	166-21911
HGL16-SM-M16	16	M16	-	11.0	29	57	20	12	10 pcs.	Black (BK)	166-21901
HGL16-SM-M20	16	M20	-	14.5	29	57	24	12	10 pcs.	Black (BK)	166-21902
HGL21-SM-PG13	21	-	PG13.5	14.5	32	55	24	10	10 pcs.	Black (BK)	166-21912
HGL21-SM-PG16	21	-	PG16	14.5	32	58	29	13	10 pcs.	Black (BK)	166-21913
HGL21-SM-M20	21	M20	-	14.5	32	57	24	12	10 pcs.	Black (BK)	166-21903
HGL28-SM-PG21	28	-	PG21	19.5	44	64	35	14	10 pcs.	Black (BK)	166-21914
HGL28-SM-M25	28	M25	-	19.5	44	62	29	12	10 pcs.	Black (BK)	166-21904
HGL34-SM-PG29	34	-	PG29	26.5	51	68	42	14	10 pcs.	Black (BK)	166-21915
HGL34-SM-M32	34	M32	-	26.5	51	67	38	13	10 pcs.	Black (BK)	166-21905
HGL42-SM-M40	42	M40	-	32.5	63	79	50	15	2 pcs.	Black (BK)	166-21906
HGL54-SM-M50	54	M50	-	42.0	76	85	58	17	2 pcs.	Black (BK)	166-21907

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel external thread

- HG-90M 90° Elbow Swivel External Thread, IP66

90° elbow swivel brass 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



HelaGuard HG-90M 90° Elbow Swivel External Thread, IP66.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



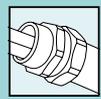
TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HG13-90M-PG9	13	-	PG9	10.5	24	58	22	10	10 pcs.	Black (BK)	166-22509
HG13-90M-M16	13	M16	-	10.5	24	60	20	12	10 pcs.	Black (BK)	166-22500
HG16-90M-PG9	16	-	PG9	10.5	29	60	22	10	10 pcs.	Black (BK)	166-22510
HG16-90M-PG11	16	-	PG11	10.5	29	62	24	12	10 pcs.	Black (BK)	166-22511
HG16-90M-M16	16	M16	-	10.5	29	62	20	12	10 pcs.	Black (BK)	166-22501
HG16-90M-M20	16	M20	-	14.0	29	64	24	12	10 pcs.	Black (BK)	166-22502
HG21-90M-PG13	21	-	PG13.5	14.0	32	64	24	10	10 pcs.	Black (BK)	166-22512
HG21-90M-PG16	21	-	PG16	14.0	32	67	29	13	10 pcs.	Black (BK)	166-22513
HG21-90M-M20	21	M20	-	14.0	32	66	24	12	10 pcs.	Black (BK)	166-22503
HG28-90M-PG21	28	-	PG21	19.0	44	81	35	14	10 pcs.	Black (BK)	166-22514
HG28-90M-M25	28	M25	-	19.0	44	79	29	12	10 pcs.	Black (BK)	166-22504
HG34-90M-PG29	34	-	PG29	24.5	51	89	42	14	10 pcs.	Black (BK)	166-22515
HG34-90M-M32	34	M32	-	24.5	51	88	38	13	10 pcs.	Black (BK)	166-22505
HG42-90M-M40	42	M40	-	32.5	63	117	50	15	2 pcs.	Black (BK)	166-22506
HG54-90M-M50	54	M50	-	39.0	76	124	58	17	2 pcs.	Black (BK)	166-22507

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel external thread

- HGL-90M 90° Elbow Swivel External Thread, IP68

90° elbow swivel brass external thread with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

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



HelaGuard HGL-90M 90° Elbow Swivel External Thread with conduit seal, IP68.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HGL13-90M-PG9	13	-	PG9	10.5	24	58	22	10	10 pcs.	Black (BK)	166-23108
HGL13-90M-M16	13	M16	-	10.5	24	60	20	12	10 pcs.	Black (BK)	166-23100
HGL16-90M-PG9	16	-	PG9	10.5	29	60	22	10	10 pcs.	Black (BK)	166-23109
HGL16-90M-PG11	16	-	PG11	10.5	29	62	24	12	10 pcs.	Black (BK)	166-23110
HGL16-90M-M16	16	M16	-	10.5	29	62	20	12	10 pcs.	Black (BK)	166-23101
HGL16-90M-M20	16	M20	-	14.0	29	64	24	12	10 pcs.	Black (BK)	166-23102
HGL21-90M-PG13	21	-	PG13.5	14.0	32	64	24	10	10 pcs.	Black (BK)	166-23111
HGL21-90M-PG16	21	-	PG16	14.0	32	67	29	13	10 pcs.	Black (BK)	166-23112
HGL21-90M-M20	21	M20	-	14.0	32	66	24	12	10 pcs.	Black (BK)	166-23103
HGL28-90M-PG21	28	-	PG21	19.0	44	81	35	14	10 pcs.	Black (BK)	166-23113
HGL28-90M-M25	28	M25	-	19.0	44	79	29	12	10 pcs.	Black (BK)	166-23104
HGL34-90M-PG29	34	-	PG29	24.5	51	89	42	14	10 pcs.	Black (BK)	166-23114
HGL34-90M-M32	34	M32	-	24.5	51	88	38	13	10 pcs.	Black (BK)	166-23105
HGL42-90M-M40	42	M40	-	32.5	63	117	50	15	2 pcs.	Black (BK)	166-23106
HGL54-90M-M50	54	M50	-	39.0	76	124	58	17	2 pcs.	Black (BK)	166-23107

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel external thread

- HG-45M 45° Elbow Swivel External Thread, IP66

45° elbow swivel brass 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



HelGuard HG-45M 45° Elbow Swivel External Thread, IP66.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



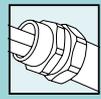
TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HG16-45M-PG13	16	-	PG13.5	14.0	29	67	24	10	10 pcs.	Black (BK)	166-23706
HG16-45M-PG16	16	-	PG16	14.0	29	70	29	13	10 pcs.	Black (BK)	166-23707
HG16-45M-M20	16	M20	-	14.0	29	69	24	12	10 pcs.	Black (BK)	166-23700
HG21-45M-PG13	21	-	PG13.5	14.0	32	74	24	10	10 pcs.	Black (BK)	166-23708
HG21-45M-PG16	21	-	PG16	14.0	32	77	29	13	10 pcs.	Black (BK)	166-23709
HG21-45M-M20	21	M20	-	14.0	32	76	24	12	10 pcs.	Black (BK)	166-23701
HG28-45M-PG21	28	-	PG21	19.0	44	92	35	14	10 pcs.	Black (BK)	166-23710
HG28-45M-M25	28	M25	-	19.0	44	90	29	12	10 pcs.	Black (BK)	166-23702
HG34-45M-PG29	34	-	PG29	24.5	51	99	42	14	10 pcs.	Black (BK)	166-23711
HG34-45M-M32	34	M32	-	24.5	51	98	38	13	10 pcs.	Black (BK)	166-23703
HG42-45M-M50	42	M50	-	39.0	63	117	58	17	2 pcs.	Black (BK)	166-23704
HG54-45M-M50	54	M50	-	39.0	76	137	58	17	2 pcs.	Black (BK)	166-23705

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel external thread

- HGL-45M 45° Elbow Swivel External Thread, IP68

45° elbow swivel brass external thread with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

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



HelaGuard HGL-45M 45° Elbow Swivel External Thread, IP68.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HGL16-45M-PG13	16	-	PG13.5	14.0	29	67	24	10	10 pcs.	Black (BK)	166-24306
HGL16-45M-PG16	16	-	PG16	14.0	29	70	29	13	10 pcs.	Black (BK)	166-24307
HGL16-45M-M20	16	M20	-	14.0	29	69	24	12	10 pcs.	Black (BK)	166-24300
HGL21-45M-PG13	21	-	PG13.5	14.0	32	74	24	10	10 pcs.	Black (BK)	166-24308
HGL21-45M-PG16	21	-	PG16	14.0	32	77	29	13	10 pcs.	Black (BK)	166-24309
HGL21-45M-M20	21	M20	-	14.0	32	76	24	12	10 pcs.	Black (BK)	166-24301
HGL28-45M-PG21	28	-	PG21	19.0	44	92	35	14	10 pcs.	Black (BK)	166-24310
HGL28-45M-M25	28	M25	-	19.0	44	90	29	12	10 pcs.	Black (BK)	166-24302
HGL34-45M-PG29	34	-	PG29	24.5	51	99	42	14	10 pcs.	Black (BK)	166-24311
HGL34-45M-M32	34	M32	-	24.5	51	98	38	13	10 pcs.	Black (BK)	166-24303
HGL42-45M-M50	42	M50	-	39.0	63	117	58	17	2 pcs.	Black (BK)	166-24304
HGL54-45M-M50	54	M50	-	39.0	76	137	58	17	2 pcs.	Black (BK)	166-24305

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel internal thread

- HG-SF Straight Swivel Internal Thread, IP66

Straight swivel brass internal thread.

Features and Benefits

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



HelaGuard HG-SF Straight Swivel Internal Thread, IP66.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



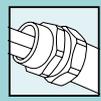
TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HG13-SF-PG9	13	-	PG9	11.0	24	66	22	14	10 pcs.	Black (BK)	166-21408
HG13-SF-M16	13	M16	-	11.0	24	66	22	14	10 pcs.	Black (BK)	166-21400
HG16-SF-PG11	16	-	PG11	11.0	29	70	22	14	10 pcs.	Black (BK)	166-21409
HG16-SF-PG16	16	-	PG16	14.5	29	71	24	14	10 pcs.	Black (BK)	166-21410
HG16-SF-M16	16	M16	-	11.0	29	69	22	14	10 pcs.	Black (BK)	166-21401
HG16-SF-M20	16	M20	-	14.5	29	69	24	14	10 pcs.	Black (BK)	166-21402
HG21-SF-PG16	21	-	PG16	14.5	32	71	24	14	10 pcs.	Black (BK)	166-21411
HG21-SF-M20	21	M20	-	14.5	32	71	24	14	10 pcs.	Black (BK)	166-21403
HG28-SF-PG21	28	-	PG21	19.5	44	78	29	14	10 pcs.	Black (BK)	166-21412
HG28-SF-M25	28	M25	-	19.5	44	78	30	14	10 pcs.	Black (BK)	166-21404
HG34-SF-PG29	34	-	PG29	26.5	51	82	38	14	10 pcs.	Black (BK)	166-21413
HG34-SF-M32	34	M32	-	26.5	51	82	38	14	10 pcs.	Black (BK)	166-21405
HG42-SF-M40	42	M40	-	32.5	63	106	52	14	2 pcs.	Black (BK)	166-21406
HG54-SF-M50	54	M50	-	42.0	76	110	52	14	2 pcs.	Black (BK)	166-21407

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel internal thread

- HGL-SF Straight Swivel Internal Thread, IP68

Straight swivel brass internal thread with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

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



HelaGuard HGL-SF Straight Swivel Internal Thread, IP68.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HGL13-SF-PG9	13	-	PG9	11.0	24	52	22	14	10 pcs.	Black (BK)	166-22009
HGL13-SF-M16	13	M16	-	11.0	24	52	22	14	10 pcs.	Black (BK)	166-22000
HGL16-SF-PG11	16	-	PG11	11.0	29	56	22	14	10 pcs.	Black (BK)	166-22011
HGL16-SF-PG16	16	-	PG16	14.5	29	57	24	14	10 pcs.	Black (BK)	166-22012
HGL16-SF-M16	16	M16	-	11.0	29	55	22	14	10 pcs.	Black (BK)	166-22001
HGL16-SF-M20	16	M20	-	14.5	29	55	24	14	10 pcs.	Black (BK)	166-22002
HGL21-SF-PG16	21	-	PG16	14.5	32	57	24	14	10 pcs.	Black (BK)	166-22013
HGL21-SF-M20	21	M20	-	14.5	32	57	24	14	10 pcs.	Black (BK)	166-22003
HGL28-SF-PG21	28	-	PG21	19.5	44	64	29	14	10 pcs.	Black (BK)	166-22014
HGL28-SF-M25	28	M25	-	19.5	44	64	30	14	10 pcs.	Black (BK)	166-22004
HGL34-SF-PG29	34	-	PG29	26.5	51	68	38	14	10 pcs.	Black (BK)	166-22015
HGL34-SF-M32	34	M32	-	26.5	51	68	38	14	10 pcs.	Black (BK)	166-22005
HGL42-SF-M40	42	M40	-	32.5	63	92	52	14	2 pcs.	Black (BK)	166-22006
HGL54-SF-M50	54	M50	-	42.0	76	96	52	14	2 pcs.	Black (BK)	166-22007

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel internal thread

- HG-90F 90° Elbow Swivel Internal Thread, IP66

90° elbow swivel brass internal thread.

Features and Benefits

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



HelaGuard HG-90F 90° Elbow Swivel Internal Thread, IP66.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HG13-90F-PG9	13	-	PG9	10.5	24	61	20	14	10 pcs.	Black (BK)	166-22608
HG13-90F-M16	13	M16	-	10.5	24	61	20	14	10 pcs.	Black (BK)	166-22600
HG16-90F-PG11	16	-	PG11	10.5	29	63	20	14	10 pcs.	Black (BK)	166-22610
HG16-90F-M16	16	M16	-	10.5	29	63	20	14	10 pcs.	Black (BK)	166-22601
HG16-90F-M20	16	M20	-	14.0	29	64	24	14	10 pcs.	Black (BK)	166-22602
HG21-90F-PG16	21	-	PG16	14.0	32	68	24	14	10 pcs.	Black (BK)	166-22611
HG21-90F-M20	21	M20	-	14.0	32	68	24	14	10 pcs.	Black (BK)	166-22603
HG28-90F-PG21	28	-	PG21	19.0	44	81	29	15	10 pcs.	Black (BK)	166-22612
HG28-90F-M25	28	M25	-	19.0	44	81	29	15	10 pcs.	Black (BK)	166-22604
HG34-90F-PG29	34	-	PG29	24.5	51	91	38	16	10 pcs.	Black (BK)	166-22613
HG34-90F-M32	34	M32	-	24.5	51	91	38	16	10 pcs.	Black (BK)	166-22605
HG42-90F-M40	42	M40	-	32.5	63	115	52	14	2 pcs.	Black (BK)	166-22606
HG54-90F-M50	54	M50	-	39.0	76	117	52	14	2 pcs.	Black (BK)	166-22607

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel internal thread

- HGL-90F 90° Elbow Swivel Internal Thread, IP68

90° elbow swivel brass internal thread with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

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



HelaGuard HGL-90F 90° Elbow Swivel Internal Thread with conduit seal, IP68.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HGL13-90F-PG9	13	-	PG9	10.5	24	61	20	14	10 pcs.	Black (BK)	166-23208
HGL13-90F-M16	13	M16	-	10.5	24	61	20	14	10 pcs.	Black (BK)	166-23200
HGL16-90F-PG11	16	-	PG11	10.5	29	63	20	14	10 pcs.	Black (BK)	166-23210
HGL16-90F-M16	16	M16	-	10.5	29	63	20	14	10 pcs.	Black (BK)	166-23201
HGL16-90F-M20	16	M20	-	14.0	29	64	24	14	10 pcs.	Black (BK)	166-23202
HGL21-90F-PG16	21	-	PG16	14.0	32	68	24	14	10 pcs.	Black (BK)	166-23212
HGL21-90F-M20	21	M20	-	14.0	32	68	24	14	10 pcs.	Black (BK)	166-23203
HGL28-90F-PG21	28	-	PG21	19.0	44	81	29	15	10 pcs.	Black (BK)	166-23213
HGL28-90F-M25	28	M25	-	19.0	44	81	29	15	10 pcs.	Black (BK)	166-23204
HGL34-90F-PG29	34	-	PG29	24.5	51	91	38	16	10 pcs.	Black (BK)	166-23214
HGL34-90F-M32	34	M32	-	24.5	51	91	38	16	10 pcs.	Black (BK)	166-23205
HGL42-90F-M40	42	M40	-	32.5	63	115	52	14	2 pcs.	Black (BK)	166-23206
HGL54-90F-M50	54	M50	-	39.0	76	117	52	14	2 pcs.	Black (BK)	166-23207

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel internal thread

- HG-45F 45° Elbow Swivel Internal Thread, IP66

45° elbow swivel brass internal thread.

Features and Benefits

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



HelaGuard HG-45F 45° Elbow Swivel Internal Thread, IP66.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



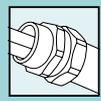
TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HG16-45F-PG16	16	-	PG16	14.0	29	68	24	14	10 pcs.	Black (BK)	166-23807
HG16-45F-M20	16	M20	-	14.0	29	68	24	14	10 pcs.	Black (BK)	166-23800
HG21-45F-PG16	21	-	PG16	14.0	32	75	24	14	10 pcs.	Black (BK)	166-23808
HG21-45F-M20	21	M20	-	14.0	32	75	24	14	10 pcs.	Black (BK)	166-23801
HG28-45F-PG21	28	-	PG21	19.0	44	88	29	15	10 pcs.	Black (BK)	166-23809
HG28-45F-M25	28	M25	-	19.0	44	88	29	15	10 pcs.	Black (BK)	166-23802
HG34-45F-PG29	34	-	PG29	24.5	51	99	38	16	10 pcs.	Black (BK)	166-23810
HG34-45F-M32	34	M32	-	24.5	51	99	38	16	10 pcs.	Black (BK)	166-23803
HG42-45F-M50	42	M50	-	39.0	63	115	52	14	2 pcs.	Black (BK)	166-23804
HG54-45F-M50	54	M50	-	39.0	76	135	52	14	2 pcs.	Black (BK)	166-23805

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel internal thread

- HGL-45F 45° Elbow Swivel Internal Thread, IP68

45° elbow swivel brass internal thread with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

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



HelaGuard HGL-45F 45° Elbow Swivel Internal Thread, IP68.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Outside Ø max.	Length (L)	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
HGL16-45F-PG16	16	-	PG16	14.0	29	68	24	14	10 pcs.	Black (BK)	166-24407
HGL16-45F-M20	16	M20	-	14.0	29	68	24	14	10 pcs.	Black (BK)	166-24400
HGL21-45F-PG16	21	-	PG16	14.0	32	75	24	14	10 pcs.	Black (BK)	166-24408
HGL21-45F-M20	21	M20	-	14.0	32	75	24	14	10 pcs.	Black (BK)	166-24401
HGL28-45F-PG21	28	-	PG21	19.0	44	88	29	15	10 pcs.	Black (BK)	166-24409
HGL28-45F-M25	28	M25	-	19.0	44	88	29	15	10 pcs.	Black (BK)	166-24402
HGL34-45F-PG29	34	-	PG29	24.5	51	99	38	16	10 pcs.	Black (BK)	166-24410
HGL34-45F-M32	34	M32	-	24.5	51	99	38	16	10 pcs.	Black (BK)	166-24403
HGL42-45F-M50	42	M50	-	39.0	63	115	52	14	2 pcs.	Black (BK)	166-24404
HGL54-45F-M50	54	M50	-	39.0	76	135	52	14	2 pcs.	Black (BK)	166-24405

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel flange

- HG-SFL Straight Swivel Flange, IP66

Straight swivel flange.

Features and Benefits

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



HelaGuard HG-SFL Straight Swivel Flange, IP66.

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



TYPE	Nominal Ø	Min. Bore Size	Outside Ø max.	Length (L)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
HG16-SFL	16	14.5	29	41	5.2	10 pcs.	Black (BK)	166-21200
HG21-SFL	21	14.5	34	44	5.2	10 pcs.	Black (BK)	166-21201
HG28-SFL	28	19.5	44	49	6.2	10 pcs.	Black (BK)	166-21202
HG34-SFL	34	26.5	51	55	6.2	10 pcs.	Black (BK)	166-21203
HG42-SFL	42	42.0	63	63	6.2	2 pcs.	Black (BK)	166-21204

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel flange

- **HGL-SFL Straight Swivel Flange, IP68**

Straight swivel flange with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

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



HelaGuard HGL-SFL Straight Swivel Flange with conduit seal, IP68.

MATERIAL	Polyamide 6.6 (PA66), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Min. Bore Size	Outside Ø max.	Length (L)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
HGL16-SFL	16	14.5	29	41	5.2	10 pcs.	Black (BK)	166-21800
HGL21-SFL	21	14.5	34	44	5.2	10 pcs.	Black (BK)	166-21801
HGL28-SFL	28	19.5	44	49	6.2	10 pcs.	Black (BK)	166-21802
HGL34-SFL	34	26.5	51	55	6.2	10 pcs.	Black (BK)	166-21803
HGL42-SFL	42	42.0	63	63	6.2	2 pcs.	Black (BK)	166-21804

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel flange

- HG-90FL 90° Elbow Swivel Flange, IP66

90° elbow swivel flange.

Features and Benefits

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



HelaGuard HG-90FL 90° Elbow Swivel Flange, IP66.

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



TYPE	Nominal Ø	Min. Bore Size	Outside Ø max.	Length (L)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
HG16-90FL	16	14.0	29	51	5.2	10 pcs.	Black (BK)	166-22400
HG21-90FL	21	14.0	34	53	5.2	10 pcs.	Black (BK)	166-22401
HG28-90FL	28	19.0	44	66	6.2	10 pcs.	Black (BK)	166-22402
HG34-90FL	34	24.5	51	79	6.2	10 pcs.	Black (BK)	166-22403
HG42-90FL	42	39.0	63	100	6.2	2 pcs.	Black (BK)	166-22404

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel flange

- HGL-90FL 90° Elbow Swivel Flange, IP68

90° elbow swivel flange with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

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



HelaGuard HGL-90FL 90° Elbow Swivel Flange, IP68.

MATERIAL	Polyamide 6.6 (PA66), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Min. Bore Size	Outside Ø max.	Length (L)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
HGL16-90FL	16	14.0	29	51	5.2	10 pcs.	Black (BK)	166-23000
HGL21-90FL	21	14.0	34	53	5.2	10 pcs.	Black (BK)	166-23001
HGL28-90FL	28	19.0	44	66	6.2	10 pcs.	Black (BK)	166-23002
HGL34-90FL	34	24.5	51	79	6.2	10 pcs.	Black (BK)	166-23003
HGL42-90FL	42	39.0	63	100	6.2	2 pcs.	Black (BK)	166-23004

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel flange

- **HG-45FL 45° Elbow Swivel Flange, IP66**

45° elbow swivel flange.

Features and Benefits

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



HelaGuard HG-45FL 45° Elbow Swivel Flange, IP66.

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



TYPE	Nominal Ø	Min. Bore Size	Outside Ø max.	Length (L)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
HG16-45FL	16	14.0	29	56	5.2	10 pcs.	Black (BK)	166-23600
HG21-45FL	21	14.0	34	63	5.2	10 pcs.	Black (BK)	166-23601
HG28-45FL	28	19.0	44	77	6.2	10 pcs.	Black (BK)	166-23602
HG34-45FL	34	24.5	51	84	6.2	10 pcs.	Black (BK)	166-23603
HG42-45FL	42	39.0	63	98	6.2	2 pcs.	Black (BK)	166-23604

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with swivel flange

- **HGL-45FL 45° Elbow Swivel Flange, IP68**

45° elbow swivel flange with conduit seal and washer.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

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



HelaGuard HGL-45FL 45° Elbow Swivel Flange, IP68.

MATERIAL	Polyamide 6.6 (PA66), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Min. Bore Size	Outside Ø max.	Length (L)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
HGL16-45FL	16	14.0	29	56	5.2	10 pcs.	Black (BK)	166-24200
HGL21-45FL	21	14.0	34	63	5.2	10 pcs.	Black (BK)	166-24201
HGL28-45FL	28	19.0	44	77	6.2	10 pcs.	Black (BK)	166-24202
HGL34-45FL	34	24.5	51	84	6.2	10 pcs.	Black (BK)	166-24203
HGL42-45FL	42	39.0	63	98	6.2	2 pcs.	Black (BK)	166-24204

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with strain relief and cable seal

- HG-SCG Straight Cable Gland Fitting, IP66

Straight fitting with cable seal and strain relief.

Features and Benefits

- Provides strain relief
- Seals cable at IP68 and IP69k
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HelGuard HG-SCG Straight Cable Gland Fitting, External Thread, IP66.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Suitable for Cable Ø from/to	Outside Ø max.	Length (L)	A/F Thread	A/F Gland Body	Thread Length	Pack Cont.	Colour	Article-No.
HG13-SCG-M16	13	M16	4.5 - 10	24	72	20	20	12	10 pcs.	Black (BK)	166-21500
HG16-SCG-M16	16	M16	4.5 - 10	29	76	20	20	12	10 pcs.	Black (BK)	166-21501
HG16-SCG-M20	16	M20	7 - 13	29	82	24	24	12	10 pcs.	Black (BK)	166-21502
HG21-SCG-M20	21	M20	7 - 13	32	82	24	24	12	10 pcs.	Black (BK)	166-21503
HG28-SCG-M25	28	M25	9 - 17	44	90	29	29	12	10 pcs.	Black (BK)	166-21504
HG34-SCG-M32	34	M32	11 - 21	51	102	36	38	15	10 pcs.	Black (BK)	166-21505
HG42-SCG-M40	42	M40	19 - 28	63	117	45	50	15	2 pcs.	Black (BK)	166-21506
HG54-SCG-M50	54	M50	27 - 35	76	125	54	56	15	2 pcs.	Black (BK)	166-21507

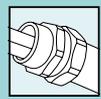
All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.

To ensure the protective seal, it is recommended to use a thread sealant on the thread between the cable gland insert and the conduit fitting.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with strain relief and cable seal

- HGL-SCG Straight Cable Gland Fitting, IP68

Straight fitting with cable seal and strain relief.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

- Provides strain relief
- Seals cable at IP68 and IP69k
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HelaGuard HGL-SCG Straight Cable Gland Fitting, External Thread, IP68.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Suitable for Cable Ø from/to	Outside Ø max.	Length (L)	A/F Thread	A/F Gland Body	Thread Length	Pack Cont.	Colour	Article-No.
HGL13-SCG-M16	13	M16	4.5 - 10	24	72	20	20	12	10 pcs.	Black (BK)	166-22100
HGL16-SCG-M16	16	M16	4.5 - 10	29	76	20	20	12	10 pcs.	Black (BK)	166-22101
HGL16-SCG-M20	16	M20	7 - 13	29	82	24	24	12	10 pcs.	Black (BK)	166-22102
HGL21-SCG-M20	21	M20	7 - 13	32	82	24	24	12	10 pcs.	Black (BK)	166-22103
HGL28-SCG-M25	28	M25	9 - 17	44	90	29	29	12	10 pcs.	Black (BK)	166-22104
HGL34-SCG-M32	34	M32	11 - 21	51	102	36	38	15	10 pcs.	Black (BK)	166-22105
HGL42-SCG-M40	42	M40	19 - 28	63	117	45	50	15	2 pcs.	Black (BK)	166-22106
HGL54-SCG-M50	54	M50	27 - 35	76	125	54	56	15	2 pcs.	Black (BK)	166-22107

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.

To ensure the protective seal, it is recommended to use a thread sealant on the thread between the cable gland insert and the conduit fitting.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with strain relief and cable seal

- HG-90CG 90° Elbow fitting, IP66

90° elbow fitting with cable seal and strain relief.

Features and Benefits

- Provides strain relief
- Seals cable at IP68 and IP69k
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HelaGuard HG-90CG 90° Cable Gland Fitting, External Thread, IP66.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Suitable for Cable Ø from/to	Outside Ø max.	Length (L)	A/F Thread	A/F Gland Body	Thread Length	Pack Cont.	Colour	Article-No.
HG13-90CG-M16	13	M16	4.5 - 10	24	81	20	20	12	10 pcs.	Black (BK)	166-23301
HG16-90CG-M16	16	M16	4.5 - 10	29	86	20	20	12	10 pcs.	Black (BK)	166-23302
HG16-90CG-M20	16	M20	7 - 13	29	91	24	24	12	10 pcs.	Black (BK)	166-23303
HG21-90CG-M20	21	M20	7 - 13	32	93	24	24	12	10 pcs.	Black (BK)	166-23304
HG28-90CG-M25	28	M25	9 - 17	44	107	29	29	12	10 pcs.	Black (BK)	166-23305
HG34-90CG-M32	34	M32	11 - 21	51	125	36	38	15	10 pcs.	Black (BK)	166-23306
HG42-90CG-M40	42	M40	19 - 28	63	140	45	50	15	2 pcs.	Black (BK)	166-23307
HG54-90CG-M50	54	M50	27 - 35	76	146	54	56	15	2 pcs.	Black (BK)	166-23308

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.

To ensure the protective seal, it is recommended to use a thread sealant on the thread between the cable gland insert and the conduit fitting.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with strain relief and cable seal

- HGL-90CG 90° Elbow fitting, IP68

90° elbow fitting with cable seal and strain relief.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

- Provides strain relief
- Seals cable at IP68 and IP69k
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HelaGuard HGL-90CG 90° Cable Gland Fitting, External Thread, IP68.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Suitable for Cable Ø from/to	Outside Ø max.	Length (L)	A/F Thread	A/F Gland Body	Thread Length	Pack Cont.	Colour	Article-No.
HGL13-90CG-M16	13	M16	4.5 - 10	24	81	20	20	12	10 pcs.	Black (BK)	166-22701
HGL16-90CG-M16	16	M16	4.5 - 10	29	86	20	20	12	10 pcs.	Black (BK)	166-22702
HGL16-90CG-M20	16	M20	7 - 13	29	91	24	24	12	10 pcs.	Black (BK)	166-22703
HGL21-90CG-M20	21	M20	7 - 13	32	93	24	24	12	10 pcs.	Black (BK)	166-22704
HGL28-90CG-M25	28	M25	9 - 17	44	107	29	29	12	10 pcs.	Black (BK)	166-22705
HGL34-90CG-M32	34	M32	11 - 21	51	125	36	38	15	10 pcs.	Black (BK)	166-22706
HGL42-90CG-M40	42	M40	19 - 28	63	140	45	50	15	2 pcs.	Black (BK)	166-22707
HGL54-90CG-M50	54	M50	27 - 35	76	146	54	56	15	2 pcs.	Black (BK)	166-22708

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.

To ensure the protective seal, it is recommended to use a thread sealant on the thread between the cable gland insert and the conduit fitting.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with strain relief and cable seal

- HG-45CG 45° Elbow fitting, IP66

45° elbow fitting with cable seal and strain relief.

Features and Benefits

- Provides strain relief
- Seals cable at IP68 and IP69k
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HelaGuard HG-45CG 45° Cable Gland Fitting, External Thread, IP66.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Suitable for Cable Ø from/to	Outside Ø max.	Length (L)	A/F Thread	A/F Gland Body	Thread Length	Pack Cont.	Colour	Article-No.
HG16-45CG-M20	16	M20	7 - 13	29	95	24	24	12	10 pcs.	Black (BK)	166-23903
HG21-45CG-M20	21	M20	7 - 13	32	100	24	24	12	10 pcs.	Black (BK)	166-23904
HG28-45CG-M25	28	M25	9 - 17	44	114	29	29	12	10 pcs.	Black (BK)	166-23905
HG34-45CG-M32	34	M32	11 - 21	51	133	36	38	15	10 pcs.	Black (BK)	166-23906
HG42-45CG-M40	42	M40	19 - 28	63	140	45	50	15	2 pcs.	Black (BK)	166-23907
HG54-45CG-M50	54	M50	27 - 35	76	164	54	56	15	2 pcs.	Black (BK)	166-23908

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings with strain relief and cable seal

- HGL-45CG 45° Elbow fitting, IP68

45° elbow fitting with cable seal and strain relief.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

- Provides strain relief
- Seals cable at IP68 and IP69k
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HelaGuard HGL-45CG 45° Cable Gland Fitting, External Thread, IP68.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	Nominal Ø	Thread Size (metric)	Suitable for Cable Ø from/to	Outside Ø max.	Length (L)	A/F Thread	A/F Gland Body	Thread Length	Pack Cont.	Colour	Article-No.
HGL16-45CG-M20	16	M20	7 - 13	29	95	24	24	12	10 pcs.	Black (BK)	166-24503
HGL21-45CG-M20	21	M20	7 - 13	32	100	24	24	12	10 pcs.	Black (BK)	166-24504
HGL28-45CG-M25	28	M25	9 - 17	44	114	29	29	12	10 pcs.	Black (BK)	166-24505
HGL34-45CG-M32	34	M32	11 - 21	51	133	36	38	15	10 pcs.	Black (BK)	166-24506
HGL42-45CG-M40	42	M40	19 - 28	63	140	45	50	15	2 pcs.	Black (BK)	166-24507
HGL54-45CG-M50	54	M50	27 - 35	76	164	54	56	15	2 pcs.	Black (BK)	166-24508

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Connectors, reducers and couplers

- HG-T T-Connector, IP66

Features and Benefits

- Fast fit T-shaped connector
- Includes removable inspection lid
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HelaGuard HG-T, T-Connector, IP66.

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



TYPE	From nominal diameter	To nominal diameter	Min. Bore Size	Outside Ø max.	Width (W)	Height (H)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
HG16-T	16	16	14.0	33	96	62	6,2	5 pcs.	Black (BK)	166-24800
HG20-T	20	20	19.0	34	99	63	6,2	3 pcs.	Black (BK)	166-24801
HG21-T	21	21	19.0	34	99	63	6,2	3 pcs.	Black (BK)	166-24802
HG28-T	28	28	25.0	45	125	87	6,0	3 pcs.	Black (BK)	166-24803
HG34-T	34	34	33.0	48	130	91	7,2	2 pcs.	Black (BK)	166-24804
HG42-T	42	42	41.0	55	150	110	7,2	1 EA	Black (BK)	166-24805

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Connectors, reducers and couplers

- **HGL-T T-Connector, IP68**

T-connector with conduit seals.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

- Fast fit T-shaped connector
- Includes removable inspection lid
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HelaGuard HGL-T, T-Connector with conduit seals.

MATERIAL	Polyamide 6.6 (PA66), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	From nominal diameter	To nominal diameter	Min. Bore Size	Outside Ø max.	Width (W)	Height (H)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
HGL16-T	16	16	14	33	96	62	6.2	5 pcs.	Black (BK)	166-24900
HGL21-T	21	21	19	34	99	63	6.2	3 pcs.	Black (BK)	166-24901
HGL28-T	28	28	25.0	45	125	87	6.0	3 pcs.	Black (BK)	166-24902
HGL34-T	34	34	33.0	48	130	91	7.2	2 pcs.	Black (BK)	166-24903
HGL42-T	42	42	41.0	55	150	110	7.2	2 pcs.	Black (BK)	166-24904

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Connectors, reducers and couplers

- **HG-Y Y-Connector, IP66**

Features and Benefits

- Fast fit Y-shaped connector
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HelaGuard HG-Y, Y-Connector, IP66.

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



TYPE	From nominal diameter	To nominal diameter	Width (W)	Height (H)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
HG16-Y13	16	13	49	77	4.0	5 pcs.	Black (BK)	166-25801
HG21-Y16	21	16	59	89	5.0	3 pcs.	Black (BK)	166-25802
HG28-Y21	28	21	67	93	6.0	3 pcs.	Black (BK)	166-25803
HG34-Y28	34	28	90	116	6.5	2 pcs.	Black (BK)	166-25804

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Connectors, reducers and couplers

- HGL-Y Y-Connector, IP68

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

- Fast fit Y-shaped connector
- High pull-off strength
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HelaGuard HGL-Y, Y-Connector with conduit seals.

MATERIAL	Polyamide 6.6 (PA66), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Flammability	UL94 V2
Specifications	UL-Recognised



TYPE	From nominal diameter	To nominal diameter	Width (W)	Height (H)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
HGL16-Y13	16	13	49	77	4.0	5 pcs.	Black (BK)	166-25901
HGL21-Y16	21	16	59	89	5.0	3 pcs.	Black (BK)	166-25902
HGL28-Y21	28	21	67	93	6.0	3 pcs.	Black (BK)	166-25903
HGL34-Y28	34	28	90	116	6.5	2 pcs.	Black (BK)	166-25904

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



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Connectors, reducers and couplers

- **HG-R Reducer, IP66**

Features and Benefits

- Reduce size of connector to attach smaller size conduits
- Used with T-Connector and Y-Connectors
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HG-R Reducer.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-50 °C to +135 °C
Specifications	UL-Recognised



TYPE	From nominal diameter	To nominal diameter	Min. Bore Size	Outside Ø max.	Pack Cont.	Colour	Article-No.
HG13-R16	16	13	11.7	24	5 pcs.	Black (BK)	166-25000
HG13-R21	21	13	11.7	24	5 pcs.	Black (BK)	166-25001
HG16-R21	21	16	14.5	29	5 pcs.	Black (BK)	166-25002
HG16-R34	34	16	14.5	29	5 pcs.	Black (BK)	166-25005
HG21-R28	28	21	17.5	32	5 pcs.	Black (BK)	166-25004
HG21-R34	34	21	17.5	32	5 pcs.	Black (BK)	166-25007
HG21-R42	42	21	17.5	32	5 pcs.	Black (BK)	166-25010
HG25-R28	28	25	22.5	39	5 pcs.	Black (BK)	166-25003
HG28-R34	34	28	25.7	44	5 pcs.	Black (BK)	166-25006
HG28-R42	42	28	25.7	44	5 pcs.	Black (BK)	166-25009
HG34-R42	42	34	31.5	51	5 pcs.	Black (BK)	166-25008

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



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Connectors, reducers and couplers

- HGL-R Reducer, IP68

Features and Benefits

- Reduce size of connector to attach smaller size conduits
- Used with T-Connector and Y-Connectors
- Highly resistant to solvents and oils
- Free of halogen, sulphur and phosphorus



HGL-R Reducer with conduit seal, IP68.

MATERIAL	Polyamide 6.6 (PA66), Thermoplastic Elastomer (TPE)
Operating Temperature	-50 °C to +135 °C
Specifications	UL-Recognised



TYPE	From nominal diameter	To nominal diameter	Min. Bore Size	Outside Ø max.	Pack Cont.	Colour	Article-No.
HGL13-R16	16	13	11.7	24	5 pcs.	Black (BK)	166-25100
HGL16-R21	21	16	14.5	29	5 pcs.	Black (BK)	166-25101
HGL16-R28	28	16	14.5	29	5 pcs.	Black (BK)	166-25103
HGL16-R34	34	16	14.5	29	5 pcs.	Black (BK)	166-25106
HGL21-R28	28	21	17.5	32	5 pcs.	Black (BK)	166-25102
HGL21-R34	34	21	17.5	32	5 pcs.	Black (BK)	166-25105
HGL21-R42	42	21	17.5	32	5 pcs.	Black (BK)	166-25109
HGL28-R34	34	28	25.7	44	5 pcs.	Black (BK)	166-25104
HGL28-R42	42	28	25.7	44	5 pcs.	Black (BK)	166-25108
HGL34-R42	42	34	31.5	51	5 pcs.	Black (BK)	166-25107

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



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Connectors, reducers and couplers

- HG-HG Conduit Connector, IP66

Features and Benefits

- One piece, fast fit
- Joins corrugated conduits



HelaGuard HG-HG Coupler.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-50 °C to +135 °C
Specifications	UL-Recognised



TYPE	From nominal diameter	To nominal diameter	Min. Bore Size	Outside Ø max.	Length (L)	Pack Cont.	Colour	Article-No.
HG16-HG16	16	16	11.0	29	59	10 pcs.	Black (BK)	166-24600
HG21-HG21	21	21	14.5	32	71	10 pcs.	Black (BK)	166-24601
HG28-HG28	28	28	19.5	44	81	10 pcs.	Black (BK)	166-24602
HG34-HG34	34	34	26.5	51	87	10 pcs.	Black (BK)	166-24603

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

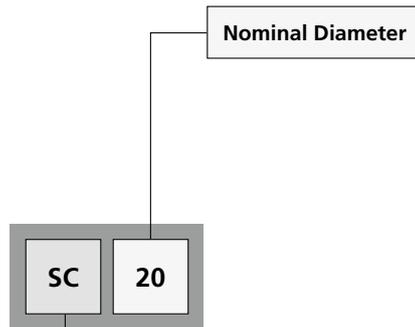


Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.

HelaGuard Nomenclature for Metallic Conduits

Example:

SC20



Conduit Type

- SC** Galvanised steel conduit
- SSC** Stainless steel conduit
- PCS** Galvanised steel conduit, PVC cover
- NCS** Galvanised steel conduit, PA6 cover
- LFHCS** Galvanised steel conduit, PO cover
- LTS** Liquid-tight galvanised steel conduit, smooth PVC cover
- LTSH** Liquid-tight galvanised steel conduit, smooth TPR cover
- LTSUL** Liquid-tight galvanised steel conduit, smooth PVC cover, UL listed
- PCSB** Galvanised steel conduit, PVC cover, galvanised steel braid
- SCSB** Galvanised steel conduit, galvanised steel braid



HelaGuard Nomenclature for Metallic Fittings

Example:

PCS32-90FMC-M32

Thread Type

- FM** Fixed external thread
- SM** Swivel external thread
- FF** Fixed internal thread
- FMC** Compression fitting, fixed external thread
- SMC** Compression fitting, swivel external thread
- PC** Plain hole connector
- EI** End insert
- SCG** Straight cable gland
- PCS-PCS** Compression conduit coupler

Nominal Diameter



Suitable Conduit Type

- SC** Galvanised steel conduits
- SSC** Stainless steel conduits
- PCS** Galvanised steel conduit, PVC cover
- NCS** Galvanised steel conduit, PA6 cover
- LFHCS** Galvanised steel conduit, PO cover
- LTS** Liquid-tight galvanised steel conduit, smooth PVC cover
- LTSH** Liquid-tight galvanised steel conduit, smooth TPR cover
- LTSUL** Liquid-tight galvanised steel conduit, smooth PVC cover, UL listed
- PCSB** Galvanised steel conduit, PVC cover, galvanised steel braid
- SCSB** Galvanised steel conduit, galvanised steel braid

Thread Size

Thread Code

- M** Metric
- PG** Panzer-Gewinde

Fitting Shape

- 90** 90° elbow fitting
- 45** 45° elbow fitting



Metallic conduits

- **SC Galvanised Steel Conduit**

Underfloor wiring in offices, data cabling, protection of hydraulic or pneumatic conduits. For high mechanical protection.

Features and Benefits

- High compression, tensile and impact strength
- Very flexible



HeliaGuard SC Galvanised Steel Conduit.



One Step to the Web!

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



TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
SC10	10	9.1	6.8	25	110	50 m	Metal (ML)	166-30100
SC12	12	13.2	10.2	30	113	50 m	Metal (ML)	166-30101
SC16	16	16.4	13.0	40	152	25 m	Metal (ML)	166-30102
SC20	20	20.6	16.9	45	295	25 m	Metal (ML)	166-30103
SC25	25	24.6	21.1	55	321	25 m	Metal (ML)	166-30104
SC32	32	32.0	28.1	70	450	25 m	Metal (ML)	166-30105
SC40	40	42.5	37.6	80	519	25 m	Metal (ML)	166-30106
SC50	50	53.2	48.4	90	802	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.

TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
SC10	10	9.1	6.8	25	110	10 m	Metal (ML)	166-30110
SC12	12	13.2	10.2	30	113	10 m	Metal (ML)	166-30111
SC16	16	16.4	13.0	40	152	10 m	Metal (ML)	166-30112
SC20	20	20.6	16.9	45	295	10 m	Metal (ML)	166-30113
SC25	25	24.6	21.1	55	321	10 m	Metal (ML)	166-30114
SC32	32	32.0	28.1	70	450	10 m	Metal (ML)	166-30115
SC40	40	42.5	37.6	80	519	10 m	Metal (ML)	166-30116
SC50	50	53.2	48.4	90	802	10 m	Metal (ML)	166-30117
SC63	63	62.5	57.5	115	836	10 m	Metal (ML)	166-30108
SC75	75	77.0	70.0	150	1,137	10 m	Metal (ML)	166-30109

All dimensions in mm. Subject to technical changes.

Other reel lengths available on request. Minimum Order Quantity (MOQ) may differ from package content.



Metallic conduits

- **SSC Stainless Steel Conduit**

Protection of sensor cables, instrumentation tubing, hydraulic and pneumatic conduits, particularly in corrosive environments. Commonly used in hospitals and clinics.

Features and Benefits

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



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

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

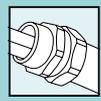
HF ✓

RoHS ✓

TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
SSC10	10	9.1	6.8	25	110	25 m	Metal (ML)	166-30200
SSC12	12	12.3	10.2	30	126	25 m	Metal (ML)	166-30201
SSC16	16	16.4	13.0	40	162	25 m	Metal (ML)	166-30202
SSC20	20	20.4	16.9	45	202	25 m	Metal (ML)	166-30203
SSC25	25	24.3	21.1	55	300	25 m	Metal (ML)	166-30204
SSC32	32	31.7	28.1	70	340	25 m	Metal (ML)	166-30205
SSC40	40	42.1	37.6	80	410	10 m	Metal (ML)	166-30206
SSC50	50	52.8	48.4	90	516	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**

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



HeloGuard SC-FM Fixed External Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
SC10-FM-PG7	10	-	PG7	5.6	21.0	13	8.0	10 pcs.	Metal (ML)	166-30311
SC10-FM-M12	10	M12	-	5.6	21.0	13	7.0	10 pcs.	Metal (ML)	166-30300
SC12-FM-M16	12	M16	-	8.5	23.0	17	10.0	10 pcs.	Metal (ML)	166-30301
SC16-FM-PG11	16	-	PG11	11.5	25.0	22	10.0	10 pcs.	Metal (ML)	166-30314
SC16-FM-M16	16	M16	-	11.5	25.0	20	10.0	10 pcs.	Metal (ML)	166-30302
SC16-FM-M20	16	M20	-	11.5	25.0	22	10.0	10 pcs.	Metal (ML)	166-30303
SC20-FM-PG16	20	-	PG16	15.3	26.3	24	10.0	10 pcs.	Metal (ML)	166-30315
SC20-FM-M20	20	M20	-	15.3	26.3	24	10.0	10 pcs.	Metal (ML)	166-30304
SC25-FM-PG21	25	-	PG21	19.1	32.5	29	12.0	10 pcs.	Metal (ML)	166-30316
SC25-FM-M25	25	M25	-	19.1	29.5	29	10.0	10 pcs.	Metal (ML)	166-30305
SC32-FM-PG29	32	-	PG29	26.2	36.8	38	13.0	2 pcs.	Metal (ML)	166-30317
SC32-FM-M32	32	M32	-	26.2	36.8	36	13.0	2 pcs.	Metal (ML)	166-30306
SC40-FM-PG36	40	-	PG36	34.2	39.0	48	14.0	2 pcs.	Metal (ML)	166-30318
SC40-FM-M40	40	M40	-	34.6	39.0	48	14.0	2 pcs.	Metal (ML)	166-30307
SC50-FM-PG42	50	-	PG42	44.8	42.0	58	15.0	1 EA	Metal (ML)	166-30319
SC50-FM-M50	50	M50	-	44.7	42.0	58	15.0	1 EA	Metal (ML)	166-30308
SC63-FM-PG48	63	-	PG48	54.5	48.0	70	16.0	1 EA	Metal (ML)	166-30320
SC63-FM-M63	63	M63	-	54.1	50.0	70	18.0	1 EA	Metal (ML)	166-30309
SC75-FM-M75	75	M75	-	66.4	60.0	84	20.0	1 EA	Metal (ML)	166-30310

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



Fittings for metallic conduits

- **SSC-FM Fixed External Thread**

Fixed external thread, stainless steel (SS316).

Features and Benefits

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



HeloGuard SSC-FM Fixed External Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
SSC10-FM-M12	10	M12	5.6	21.0	14	8.0	1 EA	Metal (ML)	166-30321
SSC12-FM-M16	12	M16	8.5	23.0	19	8.0	1 EA	Metal (ML)	166-30322
SSC16-FM-M16	16	M16	11.5	25.0	19	10.0	1 EA	Metal (ML)	166-30323
SSC20-FM-M20	20	M20	15.3	26.3	24	10.0	1 EA	Metal (ML)	166-30324
SSC25-FM-M25	25	M25	19.1	32.5	29	10.0	1 EA	Metal (ML)	166-30325
SSC32-FM-M32	32	M32	26.2	36.8	38	13.0	1 EA	Metal (ML)	166-30326
SSC40-FM-M40	40	M40	34.6	39.0	48	14.0	1 EA	Metal (ML)	166-30327
SSC50-FM-M50	50	M50	44.7	44.5	58	15.0	1 EA	Metal (ML)	166-30328

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



Fittings for metallic conduits

- **SC-SM Swivel External Thread**

Swivel external thread, nickel plated brass.

Features and Benefits

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



HeloGuard SC-SM Swivel External Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Length (L)	A/F Body	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
SC10-SM-PG7	10	-	PG7	5.6	30.2	13	13	8.0	10 pcs.	Metal (ML)	166-30410
SC10-SM-M12	10	M12	-	5.6	30.2	13	13	8.0	10 pcs.	Metal (ML)	166-30400
SC12-SM-PG9	12	-	PG9	8.5	32.2	17	17	8.0	10 pcs.	Metal (ML)	166-30411
SC12-SM-M16	12	M16	-	8.5	32.2	17	17	8.0	10 pcs.	Metal (ML)	166-30401
SC16-SM-PG11	16	-	PG11	11.5	34.2	20	22	10.0	10 pcs.	Metal (ML)	166-30412
SC16-SM-M16	16	M16	-	11.5	34.2	20	20	10.0	10 pcs.	Metal (ML)	166-30402
SC16-SM-M20	16	M20	-	11.5	34.2	20	22	10.0	10 pcs.	Metal (ML)	166-30403
SC20-SM-PG13	20	-	PG13.5	15.3	35.5	24	24	10.0	10 pcs.	Metal (ML)	166-30413
SC20-SM-PG16	20	-	PG16	15.3	35.5	24	24	10.0	10 pcs.	Metal (ML)	166-30414
SC20-SM-M20	20	M20	-	15.3	35.5	24	24	10.0	10 pcs.	Metal (ML)	166-30404
SC25-SM-PG21	25	-	PG21	19.1	43.7	29	29	12.0	10 pcs.	Metal (ML)	166-30415
SC25-SM-M25	25	M25	-	19.1	43.7	29	29	12.0	10 pcs.	Metal (ML)	166-30405
SC32-SM-PG29	32	-	PG29	26.2	48.0	38	38	13.0	2 pcs.	Metal (ML)	166-30416
SC32-SM-M32	32	M32	-	26.2	48.0	38	38	13.0	2 pcs.	Metal (ML)	166-30406
SC40-SM-PG36	40	-	PG36	34.2	51.2	48	48	14.0	2 pcs.	Metal (ML)	166-30417
SC40-SM-M40	40	M40	-	34.2	51.2	48	48	14.0	2 pcs.	Metal (ML)	166-30407
SC50-SM-PG42	50	-	PG42	44.8	54.2	58	58	15.0	1 EA	Metal (ML)	166-30418
SC50-SM-M50	50	M50	-	44.8	54.2	58	58	15.0	1 EA	Metal (ML)	166-30408
SC63-SM-M63	63	M63	-	54.5	63.2	70	70	18.0	1 EA	Metal (ML)	166-30409

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



Fittings for metallic conduits

- **SSC-SM Swivel External Thread**

Swivel external thread, stainless steel (SS316).

Features and Benefits

- Two-part fitting of shell and body with external thread
- Highly resistant to rust and corrosion
- External thread swives about main body
- Provides tight, reliable hold of conduit
- Can be secured with locknut



HeloGuard SSC-SM Swivel External Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Length (L)	A/F Body	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
SSC10-SM-M12	10	M12	5.6	30.2	14	14	8.0	1 EA	Metal (ML)	166-30419
SSC12-SM-M16	12	M16	8.5	32.2	19	19	8.0	1 EA	Metal (ML)	166-30420
SSC16-SM-M16	16	M16	11.5	34.2	19	19	10.0	1 EA	Metal (ML)	166-30421
SSC20-SM-M20	20	M20	15.3	35.5	24	24	10.0	1 EA	Metal (ML)	166-30422
SSC25-SM-M25	25	M25	19.1	43.7	29	29	10.0	1 EA	Metal (ML)	166-30423
SSC32-SM-M32	32	M32	26.2	48.0	38	38	13.0	1 EA	Metal (ML)	166-30424

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



Fittings for metallic conduits

- **SC-PC Plain Hole Connector**

Plain hole connector, nickel plated brass.

Features and Benefits

- Two part fitting of shell and body without thread
- Acts as a locking device
- The body is fitted to the conduit through the opposite side of the entry
- Provides a smooth entry bush



HelaGuard PCS-PC Plain Hole Connector.

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



TYPE	Nominal Ø	Min. Bore Size	Length (L)	A/F Body	Pack Cont.	Colour	Article-No.
SC10-PC	10	5.6	15.0	13	10 pcs.	Metal (ML)	166-30500
SC12-PC	12	8.5	15.5	17	10 pcs.	Metal (ML)	166-30501
SC16-PC	16	11.5	20.0	20	10 pcs.	Metal (ML)	166-30502
SC20-PC	20	15.3	16.5	24	10 pcs.	Metal (ML)	166-30503
SC25-PC	25	19.1	20.5	29	10 pcs.	Metal (ML)	166-30504
SC32-PC	32	26.2	23.5	38	2 pcs.	Metal (ML)	166-30505
SC40-PC	40	34.2	24.8	48	2 pcs.	Metal (ML)	166-30506
SC50-PC	50	44.8	30.0	58	1 EA	Metal (ML)	166-30507
SC63-PC	63	54.5	33.5	70	1 EA	Metal (ML)	166-30508
SC75-PC	75	66.5	42.0	84	1 EA	Metal (ML)	166-30509

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



Fittings for metallic conduits

- **SC-FF Fixed Internal Thread**

Fixed internal 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 used to couple two conduits together when used with swivel fitting



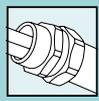
HeloGuard PCS-FF Fixed Internal Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
SC16-FF-M20	16	M20	11.5	24.5	22	10.0	10 pcs.	Metal (ML)	166-30600
SC20-FF-M20	20	M20	15.3	26.0	24	10.0	10 pcs.	Metal (ML)	166-30601
SC25-FF-M25	25	M25	19.1	30.0	29	12.0	10 pcs.	Metal (ML)	166-30602
SC32-FF-M32	32	M32	26.2	33.3	36	13.0	2 pcs.	Metal (ML)	166-30603

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

Machines and plants.

Features and Benefits

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



HelaGuard PCS Galvanised Steel Conduit with PVC Coating.



HelaGuard PCS Galvanised Steel Conduit with PVC Coating, 10 m in grey.

Flexible metallic conduits with polyurethane (PU) cover also available.

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



TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
PCS10	10	10.1	6.8	25	140	50 m	Black (BK)	166-30700
PCS12	12	14.2	10.2	30	143	50 m	Black (BK)	166-30701
PCS16	16	17.1	13.0	40	196	25 m	Black (BK)	166-30702
PCS20	20	21.6	16.9	45	345	25 m	Black (BK)	166-30703
PCS25	25	26.0	21.1	55	411	25 m	Black (BK)	166-30704
PCS32	32	34.0	28.1	60	560	25 m	Black (BK)	166-30705
PCS40	40	44.2	37.6	80	719	25 m	Black (BK)	166-30706
PCS50	50	55.0	48.4	90	1.052	25 m	Black (BK)	166-30707
PCS63	63	64.5	57.5	115	1.091	10 m	Black (BK)	166-30708
PCS75	75	79.2	70.0	150	1.459	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.



Metallic conduits with plastic coating

• PCS Galvanised Steel Conduit, PVC Coating

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

All dimensions in mm. Subject to technical changes.

Other reel lengths available on request.; Minimum Order Quantity (MOQ) may differ from package content.

Metallic conduits with plastic coating

• NCS Galvanised Steel Conduit, PA6 Coating

Demanding applications requiring higher temperatures and high resistance to acids and solvents.

Features and Benefits

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



The HelaGuard NCS galvanised steel conduit with a PA6 coating for higher temperatures and high resistance to acids and solvents.

MATERIAL	Galvanised Steel (GS), Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +120 °C



TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
NCS16	16	17.1	13.0	40	174	25 m	Black (BK)	166-30801
NCS20	20	21.6	16.9	45	345	25 m	Black (BK)	166-30802
NCS25	25	26.0	21.1	55	411	25 m	Black (BK)	166-30803
NCS32	32	34.0	28.1	60	510	10 m	Black (BK)	166-30800

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 with plastic coating

- LFHCS Galvanised Steel Conduit, LFH Coating

Rail industry, underground stations, tunnels, public buildings, wherever high fire protection is required.

Features and Benefits

- Self-extinguishing to UL94 V0
- Low smoke, low toxicity
- High compression, tensile and impact strength
- Very flexible
- Halogen, sulphur and phosphorus free



HeloGuard LFHCS galvanised steel conduit is low smoke, low toxicity, highly flame retardant and halogen free.

MATERIAL	Galvanised Steel (GS), Polyolefin (PO)
Operating Temperature	-25 °C to +90 °C
Flammability	UL94 V0
Specifications	Lloyd's Register



TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
LFHCS12	12	14.2	10.2	30	199	25 m	Black (BK)	166-30900
LFHCS16	16	17.1	13.0	40	216	25 m	Black (BK)	166-30901
LFHCS20	20	21.6	16.9	45	350	25 m	Black (BK)	166-30902
LFHCS25	25	26.0	21.1	55	420	25 m	Black (BK)	166-30903
LFHCS32	32	34.0	28.1	60	571	25 m	Black (BK)	166-30904
LFHCS40	40	44.2	37.6	80	739	10 m	Black (BK)	166-30905
LFHCS50	50	55.0	48.4	90	1,077	10 m	Black (BK)	166-30906
LFHCS63	63	64.5	57.5	115	1,126	10 m	Black (BK)	166-30907
LFHCS75	75	79.2	70.0	150	1,509	10 m	Black (BK)	166-30908

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! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



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



Helaguard PCS-FM Fixed External Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
PCS10-FM-PG7	10	-	PG7	5.6	21.0	13	8.0	10 pcs.	Metal (ML)	166-31010
PCS10-FM-M12	10	M12	-	5.6	21.0	13	8.0	10 pcs.	Metal (ML)	166-31000
PCS12-FM-PG9	12	-	PG9	8.5	23.0	17	8.0	10 pcs.	Metal (ML)	166-31011
PCS12-FM-M16	12	M16	-	8.5	23.0	17	8.0	10 pcs.	Metal (ML)	166-31001
PCS16-FM-PG11	16	-	PG11	11.5	25.0	22	10.0	10 pcs.	Metal (ML)	166-31012
PCS16-FM-M16	16	M16	-	11.5	25.0	20	10.0	10 pcs.	Metal (ML)	166-31002
PCS16-FM-M20	16	M20	-	11.5	25.0	22	10.0	10 pcs.	Metal (ML)	166-31003
PCS20-FM-PG16	20	-	PG16	15.3	26.3	24	10.0	10 pcs.	Metal (ML)	166-31014
PCS20-FM-M20	20	M20	-	15.3	26.3	24	10.0	10 pcs.	Metal (ML)	166-31004
PCS25-FM-PG21	25	-	PG21	19.1	32.5	29	12.0	10 pcs.	Metal (ML)	166-31015
PCS25-FM-M25	25	M25	-	19.1	32.5	29	10.0	10 pcs.	Metal (ML)	166-31005
PCS32-FM-PG29	32	-	PG29	26.2	36.8	38	13.0	2 pcs.	Metal (ML)	166-31016
PCS32-FM-M32	32	M32	-	26.2	36.8	36	13.0	2 pcs.	Metal (ML)	166-31006
PCS40-FM-PG36	40	-	PG36	34.2	39.0	48	14.0	2 pcs.	Metal (ML)	166-31017
PCS40-FM-M40	40	M40	-	34.6	39.0	48	14.0	2 pcs.	Metal (ML)	166-31007
PCS50-FM-PG42	50	-	PG42	44.8	42.0	58	15.0	1 EA	Metal (ML)	166-31018
PCS50-FM-M50	50	M50	-	44.7	42.0	58	15.0	1 EA	Metal (ML)	166-31008
PCS63-FM-M63	63	M63	-	54.5	50.0	70	18.0	1 EA	Metal (ML)	166-31009
PCS75-FM-M75	75	M75	-	66.5	60.0	84	20.0	1 EA	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-SM Swivel External Thread, IP54

Swivel external thread, nickel plated brass.

Features and Benefits

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



Helaguard PCS-SM Swivel External Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Length (L)	A/F Body	A/F Thread	Thread Length	Pack Cont.	Colour	Article-No.
PCS10-SM-PG7	10	-	PG7	5.6	30.2	13	13	8.0	10 pcs.	Metal (ML)	166-31110
PCS10-SM-M12	10	M12	-	5.6	30.2	13	13	8.0	10 pcs.	Metal (ML)	166-31100
PCS12-SM-PG9	12	-	PG9	8.5	32.2	17	17	8.0	10 pcs.	Metal (ML)	166-31111
PCS12-SM-M16	12	M16	-	8.5	32.2	17	17	8.0	10 pcs.	Metal (ML)	166-31101
PCS16-SM-PG11	16	-	PG11	11.5	34.2	20	22	10.0	10 pcs.	Metal (ML)	166-31112
PCS16-SM-M16	16	M16	-	11.5	34.2	20	20	10.0	10 pcs.	Metal (ML)	166-31102
PCS16-SM-M20	16	M20	-	11.5	34.2	20	22	10.0	10 pcs.	Metal (ML)	166-31103
PCS20-SM-PG13	20	-	PG13.5	15.3	35.5	24	24	10.0	10 pcs.	Metal (ML)	166-31113
PCS20-SM-PG16	20	-	PG16	15.3	35.5	24	24	10.0	10 pcs.	Metal (ML)	166-31114
PCS20-SM-M20	20	M20	-	15.3	35.5	24	24	10.0	10 pcs.	Metal (ML)	166-31104
PCS25-SM-PG21	25	-	PG21	19.1	43.7	29	29	12.0	10 pcs.	Metal (ML)	166-31115
PCS25-SM-M25	25	M25	-	19.1	43.7	29	29	12.0	10 pcs.	Metal (ML)	166-31105
PCS32-SM-PG29	32	-	PG29	26.2	48.0	38	38	13.0	2 pcs.	Metal (ML)	166-31116
PCS32-SM-M32	32	M32	-	26.2	48.0	38	38	13.0	2 pcs.	Metal (ML)	166-31106
PCS40-SM-PG36	40	-	PG36	34.2	51.2	48	48	14.0	2 pcs.	Metal (ML)	166-31117
PCS40-SM-M40	40	M40	-	34.2	51.2	48	48	14.0	2 pcs.	Metal (ML)	166-31107
PCS50-SM-PG42	50	-	PG42	44.8	54.2	58	58	15.0	1 EA	Metal (ML)	166-31118
PCS50-SM-M50	50	M50	-	44.8	54.2	58	58	15.0	1 EA	Metal (ML)	166-31108
PCS63-SM-M63	63	M63	-	54.5	63.2	70	70	18.0	1 EA	Metal (ML)	166-31109

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-PC Plain Hole Connector, IP54

Plain hole connector, nickel plated brass.

Features and Benefits

- Two part fitting of shell and body without thread
- Acts as a locking device
- The body is fitted to the conduit through the opposite side of the entry
- Provides a smooth entry bush



HelGuard PCS-PC Plain Hole Connector.

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



TYPE	Nominal Ø	Min. Bore Size	Length (L)	A/F Body	Pack Cont.	Colour	Article-No.
PCS10-PC	10	5.6	15.0	13	10 pcs.	Metal (ML)	166-31200
PCS12-PC	12	8.5	15.5	17	10 pcs.	Metal (ML)	166-31201
PCS16-PC	16	11.5	20.0	20	10 pcs.	Metal (ML)	166-31202
PCS20-PC	20	15.3	16.5	24	10 pcs.	Metal (ML)	166-31203
PCS25-PC	25	19.1	20.5	29	10 pcs.	Metal (ML)	166-31204
PCS32-PC	32	26.2	23.5	38	2 pcs.	Metal (ML)	166-31205
PCS40-PC	40	34.2	24.8	48	2 pcs.	Metal (ML)	166-31206
PCS50-PC	50	44.8	30.0	58	1 EA	Metal (ML)	166-31207
PCS63-PC	63	54.5	33.5	70	1 EA	Metal (ML)	166-31208
PCS75-PC	75	66.5	42.0	84	1 EA	Metal (ML)	166-31209

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-FF Fixed Internal Thread, IP54

Fixed internal 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 used to couple two conduits together when used with swivel fitting



HeloGuard SC-FF Fixed Internal Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Length (L)	A/F Body	Thread Length	Pack Cont.	Colour	Article-No.
PCS16-FF-M20	16	M20	11.5	24.5	22	10.0	10 pcs.	Metal (ML)	166-31300
PCS20-FF-M20	20	M20	15.3	26.0	24	10.0	10 pcs.	Metal (ML)	166-31301
PCS25-FF-M25	25	M25	19.1	30.0	29	12.0	10 pcs.	Metal (ML)	166-31302
PCS32-FF-M32	32	M32	26.2	33.3	36	13.0	10 pcs.	Metal (ML)	166-31303

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



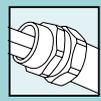
Helaguard PCS-FMC Compression Fitting.

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Length (L)	A/F Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
PCS10-FMC-M12	10	M12	-	5.6	29.8	20	20	10.0	10 pcs.	Metal (ML)	166-31400
PCS12-FMC-M16	12	M16	-	8.6	29.8	20	22	10.0	10 pcs.	Metal (ML)	166-31401
PCS16-FMC-PG11	16	-	PG11	11.5	31.0	24	26	10.0	10 pcs.	Metal (ML)	166-31409
PCS16-FMC-M16	16	M16	-	11.5	33.0	24	26	12.0	10 pcs.	Metal (ML)	166-31402
PCS16-FMC-M20	16	M20	-	11.5	33.0	24	26	12.0	10 pcs.	Metal (ML)	166-31403
PCS20-FMC-PG16	20	-	PG16	15.3	32.5	26	29	11.0	10 pcs.	Metal (ML)	166-31410
PCS20-FMC-M20	20	M20	-	15.3	33.5	26	29	12.0	10 pcs.	Metal (ML)	166-31404
PCS25-FMC-PG21	25	-	PG21	19.1	38.5	33	35	12.0	10 pcs.	Metal (ML)	166-31411
PCS25-FMC-M25	25	M25	-	19.1	40.5	33	35	14.0	10 pcs.	Metal (ML)	166-31405
PCS32-FMC-PG29	32	-	PG29	26.0	42.8	40	42	12.0	2 pcs.	Metal (ML)	166-31412
PCS32-FMC-M32	32	M32	-	26.0	45.8	40	42	15.0	2 pcs.	Metal (ML)	166-31406
PCS40-FMC-PG36	40	-	PG36	34.6	43.5	58	58	12.0	2 pcs.	Metal (ML)	166-31415
PCS40-FMC-M40	40	M40	-	34.6	47.5	56	58	16.0	2 pcs.	Metal (ML)	166-31407
PCS50-FMC-M50	50	M50	-	44.7	51.0	70	70	16.0	1 EA	Metal (ML)	166-31408

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-SMC Swivel Thread Compression Fitting, IP65

External thread, nickel plated brass. Fulfils IP65.

Features and Benefits

- Multipart compression fitting including elastomeric seal
- Provides excellent tensile strength
- External thread swivels about main body even after tightening

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



Helaguard PCS-SMC Swivel Compression Fitting.



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Length (L)	A/F Body	A/F Thread	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
PCS12-SMC-M16	12	M16	8.6	39.0	20	20	22	10.0	10 pcs.	Metal (ML)	166-31500
PCS16-SMC-M16	16	M16	11.5	40.9	24	24	26	10.0	10 pcs.	Metal (ML)	166-31501
PCS16-SMC-M20	16	M20	11.5	41.0	24	24	26	10.0	10 pcs.	Metal (ML)	166-31502
PCS20-SMC-M20	20	M20	15.3	41.8	26	26	29	10.0	10 pcs.	Metal (ML)	166-31503
PCS25-SMC-M25	25	M25	19.1	50.7	33	29	35	12.0	10 pcs.	Metal (ML)	166-31504
PCS32-SMC-M32	32	M32	26.0	56.9	40	38	42	13.0	2 pcs.	Metal (ML)	166-31505

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-90FMC 90° Elbow Compression Fitting, IP65

External thread elbow, nickel plated brass. Fulfils IP65.

Features and Benefits

- Multipart 90° compression fitting including elastomeric seal
- Provides excellent tensile strength

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



Helaguard PCS-90FMC 90 Elbow Compression Fitting.



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	A/F Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
PCS12-90FMC-M16	12	M16	8.6	20	22	10.0	10 pcs.	Metal (ML)	166-31601
PCS16-90FMC-M16	16	M16	11.5	20	26	10.0	10 pcs.	Metal (ML)	166-31602
PCS16-90FMC-M20	16	M20	11.5	24	26	13.0	10 pcs.	Metal (ML)	166-31603
PCS20-90FMC-M20	20	M20	15.3	24	29	13.0	10 pcs.	Metal (ML)	166-31604
PCS25-90FMC-M25	25	M25	19.1	30	35	14.0	10 pcs.	Metal (ML)	166-31605
PCS32-90FMC-M32	32	M32	26.0	36	42	15.0	2 pcs.	Metal (ML)	166-31606

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-PCS Compression Coupler, IP65

Nickel plated brass.
Fulfils IP65.

Features and Benefits

- Multipart compression coupler including polyamide seal
- Joins two conduits
- Provides excellent tensile strength

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



Helaguard PCS-PCS Compression Coupler.



TYPE	Nominal Ø	Min. Bore Size	Length (L)	A/F Body	A/F Nut	Pack Cont.	Colour	Article-No.
PCS20-PCS20	20	15.3	39.5	26	29	10 pcs.	Metal (ML)	166-31700
PCS25-PCS25	25	19.1	46.9	33	35	10 pcs.	Metal (ML)	166-31701

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-SCG Straight Cable Gland fitting, IP65

External thread, nickel plated brass. Fulfils IP65.

Features and Benefits

- Multipart compression fitting including elastomeric seal
- Powerful strain relief function
- Seals cable at IP68 and IP69k
- Provides excellent tensile strength

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Operating Temperature	-40 °C to +135 °C



PCS-SCG Compression Fitting with Strain Relief and Cable Seal.



TYPE	Nominal Ø	Thread Size (metric)	Suitable for Cable Ø from/to	Length (L)	A/F Body	A/F Gland Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
PCS16-SCG-M16	16	M16	4.5 - 10	55	20	22	26	12.0	10 pcs.	Metal (ML)	166-36101
PCS20-SCG-M20	20	M20	7 - 13	58	24	26	29	12.0	10 pcs.	Metal (ML)	166-36102
PCS25-SCG-M25	25	M25	9 - 17	65	29	33	35	12.0	10 pcs.	Metal (ML)	166-36103
PCS32-SCG-M32	32	M32	11 - 21	78	36	40	42	15.0	2 pcs.	Metal (ML)	166-36104

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.
To ensure the protective seal, it is recommended to use a thread sealant on the thread between the cable gland insert and the conduit fitting.



Fittings for metallic conduits with plastic coating

- **PCS-EI End Insert**

Nickel plated brass.

Features and Benefits

- Single part
- Caps end of conduit



Helaguard PCS-EI End Insert.

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



TYPE	Nominal Ø	Min. Bore Size	Length (L)	Outside Ø max.	Pack Cont.	Colour	Article-No.
PCS10-EI	10	5.6	16.3	13.8	10 pcs.	Metal (ML)	166-31800
PCS12-EI	12	8.6	16.3	16.1	10 pcs.	Metal (ML)	166-31801
PCS16-EI	16	11.5	21.3	20.0	10 pcs.	Metal (ML)	166-31802
PCS20-EI	20	15.3	23.0	22.9	10 pcs.	Metal (ML)	166-31803
PCS25-EI	25	19.1	27.5	28.7	10 pcs.	Metal (ML)	166-31804
PCS32-EI	32	26.0	30.0	35.0	2 pcs.	Metal (ML)	166-31805
PCS40-EI	40	34.6	28.0	47.5	2 pcs.	Metal (ML)	166-31806
PCS50-EI	50	44.7	30.0	57.9	2 pcs.	Metal (ML)	166-31807

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 and IP68 with LTS-fittings.

Machine tools or outdoor installations, wherever liquid-tight (IP68) is a requirement.

Features and Benefits

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



HelaGuard LTS.

Liquid-tight conduits with polyurethane (PU) cover also available.

MATERIAL	Galvanised Steel (GS), Polyvinylchloride (PVC)
Operating Temperature	-20 °C to +105 °C
Specifications	Lloyd's Register



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

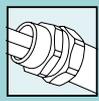
TYPE	Nominal Ø	US Trade Size "	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
LTS10	10	1/4	11.8	7.0	35	185	50 m	Black (BK)	166-31900
LTS12	12	5/16	14.2	10.0	40	203	25 m	Black (BK)	166-31901
LTS16	16	3/8	17.8	12.6	45	311	25 m	Black (BK)	166-31902
	16	3/8	17.8	12.6	45	311	25 m	Grey (GY)	166-31917
LTS20	20	1/2	21.1	16.0	65	407	25 m	Black (BK)	166-31903
	20	1/2	21.1	16.0	65	407	25 m	Grey (GY)	166-31918
LTS25	25	3/4	26.4	21.1	100	503	25 m	Black (BK)	166-31904
	25	3/4	26.4	21.1	100	503	25 m	Grey (GY)	166-31919
LTS32	32	1	33.1	26.5	135	732	25 m	Black (BK)	166-31905
	32	1	33.1	26.5	135	732	25 m	Grey (GY)	166-31921
LTS40	40	1 1/4	41.8	35.4	175	885	25 m	Black (BK)	166-31906
	40	1 1/4	41.8	35.4	175	885	25 m	Grey (GY)	166-31927
LTS50	50	1 1/2	47.9	40.4	230	1,240	25 m	Black (BK)	166-31907
LTS63	63	2	59.7	51.6	280	1,470	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! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Metallic conduits with liquid-tight cover

- **LTSH Galvanised Steel Conduit, Thermoplastic Cover**

Flexible galvanised steel conduit with smooth, flame retardant thermoplastic cover.

Fulfills IP66, IP67 and IP68 with LTS-fittings.

Machine tools or outdoor installations wherever flame retardance or low or high temperature resistance is required.

Features and Benefits

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



HelaGuard LTSH.



HelaGuard LTSH galvanised steel conduit with a smooth, liquid-tight thermoplastic rubber cover offers very good resistance to oils, greases, petrol, acids and UV.

MATERIAL	Galvanised Steel (GS), Thermoplastic Rubber (TPR)
Operating Temperature	-60 °C to +150 °C



TYPE	Nominal Ø	US Trade Size "	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
LTSH12	12	5/16	14.2	10.0	40	203	25 m	Black (BK)	166-32001
LTSH16	16	3/8	17.8	12.6	45	311	25 m	Black (BK)	166-32002
LTSH20	20	1/2	21.1	16.0	65	407	25 m	Black (BK)	166-32003
LTSH25	25	3/4	26.4	21.1	100	445	25 m	Black (BK)	166-32004
LTSH32	32	1	33.1	26.5	135	666	25 m	Black (BK)	166-32005
LTSH40	40	1 1/4	41.8	35.4	175	793	10 m	Black (BK)	166-32006
LTSH50	50	1 1/2	47.9	40.4	230	1,071	10 m	Black (BK)	166-32007

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 with liquid-tight cover

- LTSUL, Galvanised Steel Conduit, PVC Cover, UL Listed

Flexible galvanised steel conduit including copper bonding strip (up to 32mm) with smooth, oil resistant PVC cover.

Fulfils IP66, IP67 and IP68 with LTS-fittings.

Machine tools or outdoor installations, liquid-tight applications where UL listing is required.

Features and Benefits

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

MATERIAL	Galvanised Steel (GS), Polyvinylchloride (PVC), Copper (CU)
Operating Temperature	-15 °C to +75 °C
Specifications	CSA, UL Listed

RoHS



HeloGuard LTSUL.



The HeloGuard LTSUL galvanised steel conduit with a PVC Cover is UL listed and typically used on drilling platforms.

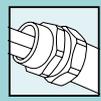
TYPE	Nominal Ø	US Trade Size "	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
LTSUL16	16	3/8	17.8	12.6	50	432	25 m	Black (BK)	166-32100
LTSUL20	20	1/2	21.1	16.0	90	477	25 m	Black (BK)	166-32101
LTSUL25	25	3/4	26.4	21.1	110	789	25 m	Black (BK)	166-32102
LTSUL32	32	1	33.1	26.5	140	1,221	15 m	Black (BK)	166-32103
LTSUL40	40	1 1/4	41.8	35.4	180	1,519	15 m	Black (BK)	166-32104
LTSUL50	50	1 1/2	47.9	40.4	230	1,846	15 m	Black (BK)	166-32105
LTSUL63	63	2	59.7	51.6	280	2,159	15 m	Black (BK)	166-32106

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! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



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



HeliaGuard LTS-FMC Compression Fitting.

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Length (L)	A/F Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
LTS10-FMC-M12	10	M12	-	5.6	29.8	20	20	10.0	10 pcs.	Metal (ML)	166-32200
LTS10-FMC-M16	10	M16	-	5.6	29.8	20	20	10.0	10 pcs.	Metal (ML)	166-32201
LTS12-FMC-M16	12	M16	-	8.6	29.8	20	22	10.0	10 pcs.	Metal (ML)	166-32203
LTS16-FMC-PG11	16	-	PG11	10.7	31.0	24	26	10.0	10 pcs.	Metal (ML)	166-32212
LTS16-FMC-PG13	16	-	PG13.5	10.7	31.0	24	26	10.0	10 pcs.	Metal (ML)	166-32216
LTS16-FMC-M16	16	M16	-	10.7	33.0	24	26	12.0	10 pcs.	Metal (ML)	166-32204
LTS16-FMC-M20	16	M20	-	10.7	33.0	24	26	12.0	10 pcs.	Metal (ML)	166-32205
LTS20-FMC-PG16	20	-	PG16	14.5	32.5	26	29	11.0	10 pcs.	Metal (ML)	166-32213
LTS20-FMC-M20	20	M20	-	14.5	33.5	26	29	12.0	10 pcs.	Metal (ML)	166-32206
LTS25-FMC-PG21	25	-	PG21	18.0	38.5	33	35	12.0	10 pcs.	Metal (ML)	166-32214
LTS25-FMC-M25	25	M25	-	18.0	40.5	33	35	14.0	10 pcs.	Metal (ML)	166-32207
LTS32-FMC-PG29	32	-	PG29	24.6	42.8	40	42	12.0	2 pcs.	Metal (ML)	166-32215
LTS32-FMC-M32	32	M32	-	24.6	45.8	40	42	15.0	2 pcs.	Metal (ML)	166-32208
LTS40-FMC-M40	40	M40	-	32.7	47.5	50	52	16.0	1 EA	Metal (ML)	166-32209
LTS50-FMC-M50	50	M50	-	37.7	53.0	58	58	18.0	1 EA	Metal (ML)	166-32210
LTS63-FMC-M63	63	M63	-	49.0	58.8	70	70	20.0	1 EA	Metal (ML)	166-32211

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



Fittings for metallic conduits with liquid-tight cover

- LTS-SMC Swivel Thread Compression Fitting, IP68

External thread, nickel plated brass.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

- Multipart compression fitting including polyamide seal
- Provides excellent tensile strength
- External thread swivels about main body even after tightening



HeliaGuard LTS-SMC Swivel Compression Fitting.

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



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Length (L)	A/F Body	A/F Thread	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
LTS12-SMC-M16	12	M16	8.6	39.0	20	20	22	10.0	10 pcs.	Metal (ML)	166-32300
LTS16-SMC-M16	16	M16	10.7	40.9	24	24	26	10.0	10 pcs.	Metal (ML)	166-32301
LTS16-SMC-M20	16	M20	10.7	41.0	24	24	26	10.0	10 pcs.	Metal (ML)	166-32302
LTS20-SMC-M20	20	M20	14.5	41.8	26	26	29	10.0	10 pcs.	Metal (ML)	166-32303
LTS25-SMC-M25	25	M25	18.0	50.7	33	29	35	12.0	10 pcs.	Metal (ML)	166-32304
LTS32-SMC-M32	32	M32	24.6	56.9	40	38	42	13.0	2 pcs.	Metal (ML)	166-32305

All dimensions in mm. Subject to technical changes.

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



Fittings for metallic conduits with liquid-tight cover

- **LTS-90FMC 90° Elbow compression fitting, IP68**

External thread, nickel plated brass.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

- Multipart 90° compression fitting including polyamide seal
- Provides excellent tensile strength



HelaGuard LTS-90FMC 90° Elbow Compression Fitting.

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



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	A/F Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
LTS12-90FMC-M16	12	M16	8.6	20	22	10.0	10 pcs.	Metal (ML)	166-32400
LTS16-90FMC-M16	16	M16	10.7	20	26	10.0	10 pcs.	Metal (ML)	166-32401
LTS16-90FMC-M20	16	M20	10.7	24	26	13.0	10 pcs.	Metal (ML)	166-32402
LTS20-90FMC-M20	20	M20	14.5	24	29	13.0	10 pcs.	Metal (ML)	166-32403
LTS25-90FMC-M25	25	M25	18.0	30	35	14.0	10 pcs.	Metal (ML)	166-32404
LTS32-90FMC-M32	32	M32	24.6	36	42	15.0	2 pcs.	Metal (ML)	166-32405
LTS40-90FMC-M40	40	M40	32.7	46	52	18.0	1 EA	Metal (ML)	166-32406
LTS50-90FMC-M50	50	M50	37.7	57	58	18.0	1 EA	Metal (ML)	166-32407
LTS63-90FMC-M63	63	M63	49.0	72	70	20.0	1 EA	Metal (ML)	166-32408

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



Fittings for metallic conduits with liquid-tight cover

• LTS-45FMC 45° Elbow Compression Fitting, IP68

External thread, nickel plated brass.
Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

- Multipart 45° compression fitting including polyamide seal
- Provides excellent tensile strength

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



HelaGuard LTS-45FMC 45° Elbow Compression Fitting.



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Length (L)	A/F Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
LTS16-45FMC-M20	16	M20	10.7	44.8	24	26	13.0	10 pcs.	Metal (ML)	166-32500
LTS20-45FMC-M20	20	M20	14.5	49.5	24	29	13.0	10 pcs.	Metal (ML)	166-32501
LTS25-45FMC-M25	25	M25	18.0	63.0	30	35	14.0	10 pcs.	Metal (ML)	166-32502
LTS32-45FMC-M32	32	M32	24.6	76.6	36	42	15.0	2 pcs.	Metal (ML)	166-32503
LTS40-45FMC-M40	40	M40	32.7	86.9	47	57	18.0	1 EA	Metal (ML)	166-32504
LTS50-45FMC-M50	50	M50	37.7	93.4	61	62	18.0	1 EA	Metal (ML)	166-32505
LTS63-45FMC-M63	63	M63	49.0	111.0	67	76	20.0	1 EA	Metal (ML)	166-32506

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

Fittings for metallic conduits with liquid-tight cover

• LTS-LTS Compression Coupler, IP68

Nickel plated brass.
Fulfils IP66, IP67 and IP68.

Features and Benefits

- Multipart compression coupler including polyamide seal
- Joins two conduits
- Provides excellent tensile strength

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

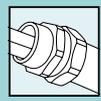


HelaGuard LTS-LTS Compression Coupler.



TYPE	Nominal Ø	Min. Bore Size	Length (L)	A/F Body	A/F Nut	Pack Cont.	Colour	Article-No.
LTS20-LTS20	20	14.5	39.5	26	29	10 pcs.	Metal (ML)	166-32600
LTS25-LTS25	25	18.0	46.9	33	35	10 pcs.	Metal (ML)	166-32601

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



Fittings for metallic conduits with liquid-tight cover

- **LTS-SCG Straight cable gland fitting, IP68**

External thread, nickel plated brass.

Fulfils IP66, IP67, IP68 and IP69k.

Features and Benefits

- Multipart compression fitting including elastomeric seal
- Powerful strain relief function
- Seals cable at IP68 and IP69k
- Provides excellent tensile strength



PCS-SCG Compression Fitting with Strain Relief and Cable Seal.

MATERIAL	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Operating Temperature	-40 °C to +135 °C



TYPE	Nominal Ø	Thread Size (metric)	Suitable for Cable Ø from/to	Length (L)	A/F Body	A/F Thread	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
LTS16-SCG-M16	16	M16	4.5 - 10	55	22	20	26	12.0	10 pcs.	Metal (ML)	166-36201
LTS20-SCG-M20	20	M20	7 - 13	58	26	24	29	12.0	10 pcs.	Metal (ML)	166-36202
LTS25-SCG-M25	25	M25	9 - 17	65	33	29	35	12.0	10 pcs.	Metal (ML)	166-36203
LTS32-SCG-M32	32	M32	11 - 21	78	40	36	42	15.0	2 pcs.	Metal (ML)	166-36204

All dimensions in mm. Subject to technical changes.

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

To ensure the protective seal, it is recommended to use a thread sealant on the thread between the cable gland insert and the conduit fitting.



Fittings for metallic conduits with liquid-tight cover

- LTS-EI End Insert

Nickel plated brass.

Features and Benefits

- Single part
- Caps end of conduit



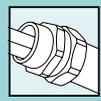
HeloGuard LTS-EI End Insert.

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



TYPE	Nominal Ø	Min. Bore Size	Length (L)	Outside Ø max.	Pack Cont.	Colour	Article-No.
LTS10-EI	10	5.6	16.3	13.8	10 pcs.	Metal (ML)	166-32700
LTS12-EI	12	8.6	16.3	16.1	10 pcs.	Metal (ML)	166-32701
LTS16-EI	16	10.7	16.5	20.0	10 pcs.	Metal (ML)	166-32702
LTS20-EI	20	14.5	17.0	22.9	10 pcs.	Metal (ML)	166-32703
LTS25-EI	25	18.0	21.5	28.7	10 pcs.	Metal (ML)	166-32704
LTS32-EI	32	24.6	24.0	35.0	2 pcs.	Metal (ML)	166-32705
LTS40-EI	40	32.7	28.0	45.0	1 EA	Metal (ML)	166-32706
LTS50-EI	50	37.7	30.0	51.0	1 EA	Metal (ML)	166-32707
LTS63-EI	63	49.0	35.0	63.0	1 EA	Metal (ML)	166-32708

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



Metallic conduits with plastic coating and metallic overbraid

- PCSB Galvanised Steel Conduit, PVC Coating, Galvanised Steel Overbraid

Industrial environments where higher abrasion resistance or EMC screening are required.

Features and Benefits

- High compression, tensile and impact strength
- Very high abrasion resistance
- Very flexible
- Provides EMC screening

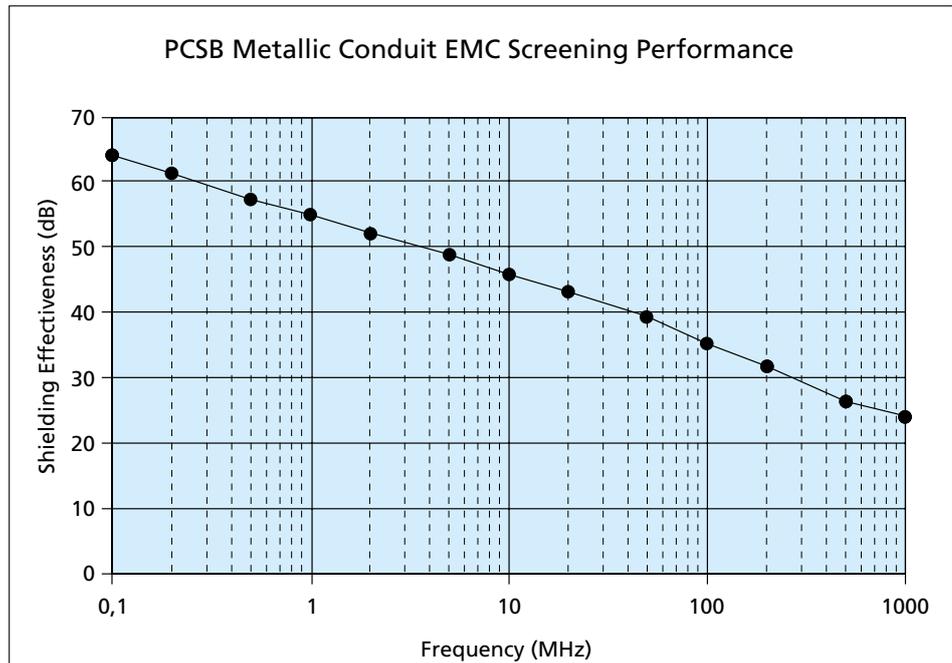


The HelaGuard PCSB galvanised steel conduit with a PVC coating galvanised steel overbraid offers high abrasion resistance and EMC screening.

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



Stainless steel and tinned copper braiding is also available.



TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
PCSB12	12	15.2	10.2	30	252	25 m	Metal (ML)	166-33600
PCSB16	16	18.2	13.0	40	348	25 m	Metal (ML)	166-33601
PCSB20	20	22.7	16.9	45	530	25 m	Metal (ML)	166-33602
PCSB25	25	27.2	21.1	55	614	25 m	Metal (ML)	166-33603
PCSB32	32	35.2	28.1	70	832	25 m	Metal (ML)	166-33604
PCSB40	40	45.7	37.6	80	1,286	10 m	Metal (ML)	166-33605
PCSB50	50	57.7	48.4	90	1,736	10 m	Metal (ML)	166-33606

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 and metallic overbraid

- PCSB-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



HeloGuard PCSB-FM Fixed External Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Length (L)	A/F Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
PCSB12-FM-M16	12	M16	-	8.5	26.0	17	17	8.0	10 pcs.	Metal (ML)	166-33800
PCSB12-FM-PG9	12	-	PG9	8.5	26.0	17	17	8.0	10 pcs.	Metal (ML)	166-33808
PCSB16-FM-M16	16	M16	-	11.5	28.0	20	20	10.0	10 pcs.	Metal (ML)	166-33801
PCSB16-FM-M20	16	M20	-	11.5	28.0	22	20	10.0	10 pcs.	Metal (ML)	166-33802
PCSB16-FM-PG11	16	-	PG11	11.5	28.0	20	20	10.0	10 pcs.	Metal (ML)	166-33809
PCSB20-FM-M20	20	M20	-	15.3	30.8	24	26	10.0	10 pcs.	Metal (ML)	166-33803
PCSB20-FM-PG16	20	-	PG16	15.3	30.8	24	26	10.0	10 pcs.	Metal (ML)	166-33810
PCSB25-FM-M25	25	M25	-	19.1	34.5	29	30	12.0	10 pcs.	Metal (ML)	166-33804
PCSB32-FM-M32	32	M32	-	26.2	39.3	38	38	13.0	2 pcs.	Metal (ML)	166-33805
PCSB25-FM-PG21	25	-	PG21	19.1	34.5	29	30	12.0	10 pcs.	Metal (ML)	166-33811
PCSB32-FM-PG29	32	-	PG29	26.2	39.3	38	38	13.0	2 pcs.	Metal (ML)	166-33812
PCSB40-FM-M40	40	M40	-	34.2	42.8	48	50	14.0	1 EA	Metal (ML)	166-33806
PCSB40-FM-PG36	40	-	PG36	34.2	42.8	48	50	14.0	1 EA	Metal (ML)	166-33813
PCSB50-FM-M50	50	M50	-	44.8	48.0	58	61	15.0	1 EA	Metal (ML)	166-33807

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



Fittings for metallic conduits with plastic coating and metallic overbraid

- PCSB-SM Swivel External Thread, IP54

Swivel external thread, nickel plated brass.

Features and Benefits

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



HeloGuard PCSB-SM Swivel External Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Length (L)	A/F Body	A/F Thread	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
PCSB12-SM-PG9	12	-	PG9	8.5	36.2	17	17	17	9.0	10 pcs.	Metal (ML)	166-33908
PCSB12-SM-M16	12	M16	-	8.5	36.2	17	17	17	9.0	10 pcs.	Metal (ML)	166-33900
PCSB16-SM-PG11	16	-	PG11	11.5	38.1	20	20	20	10.0	10 pcs.	Metal (ML)	166-33909
PCSB16-SM-M16	16	M16	-	11.5	38.1	20	20	20	10.0	10 pcs.	Metal (ML)	166-33901
PCSB16-SM-M20	16	M20	-	11.5	38.1	20	22	20	10.0	10 pcs.	Metal (ML)	166-33902
PCSB20-SM-PG16	20	-	PG16	15.3	40.0	26	24	24	10.0	10 pcs.	Metal (ML)	166-33910
PCSB20-SM-M20	20	M20	-	15.3	40.0	26	24	24	10.0	10 pcs.	Metal (ML)	166-33903
PCSB25-SM-PG21	25	-	PG21	19.1	47.2	30	29	29	12.0	10 pcs.	Metal (ML)	166-33911
PCSB25-SM-M25	25	M25	-	19.1	47.2	30	29	29	12.0	10 pcs.	Metal (ML)	166-33904
PCSB32-SM-PG29	32	-	PG29	26.0	52.6	38	38	38	13.0	2 pcs.	Metal (ML)	166-33912
PCSB32-SM-M32	32	M32	-	26.0	52.6	38	38	38	13.0	2 pcs.	Metal (ML)	166-33905
PCSB40-SM-PG36	40	-	PG36	34.6	57.8	50	48	48	14.0	1 EA	Metal (ML)	166-33913
PCSB40-SM-M40	40	M40	-	34.6	57.8	50	48	48	14.0	1 EA	Metal (ML)	166-33906
PCSB50-SM-PG42	50	-	PG42	44.7	60.2	60	58	58	15.0	1 EA	Metal (ML)	166-33914
PCSB50-SM-M50	50	M50	-	44.7	60.2	60	58	58	15.0	1 EA	Metal (ML)	166-33907

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



Fittings for metallic conduits with plastic coating and metallic overbraid

- PCSB-PC Plain Hole Connector, IP54

Plain hole connector, nickel plated brass.

Features and Benefits

- Two part fitting of shell and body without thread
- Acts as a locking device
- The body is fitted to the conduit through the opposite side of the entry
- Provides a smooth entry bush



HeloGuard PCSB-PC Plain Hole Connector.

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



TYPE	Nominal Ø	Min. Bore Size	Length (L)	A/F Body	A/F Nut	Pack Cont.	Colour	Article-No.
PCSB12-PC	12	8.5	18.0	17	17	10 pcs.	Metal (ML)	166-34000
PCSB16-PC	16	11.5	18.0	20	20	10 pcs.	Metal (ML)	166-34001
PCSB20-PC	20	15.3	21.0	24	26	10 pcs.	Metal (ML)	166-34002
PCSB25-PC	25	19.1	23.5	29	30	10 pcs.	Metal (ML)	166-34003
PCSB32-PC	32	26.0	26.3	38	38	2 pcs.	Metal (ML)	166-34004
PCSB40-PC	40	34.6	28.8	48	50	1 EA	Metal (ML)	166-34005
PCSB50-PC	50	44.7	33.0	58	60	1 EA	Metal (ML)	166-34006

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



Fittings for metallic conduits with plastic coating and metallic overbraid

- **PCSB-FMC Fixed Thread Compression Fitting, IP65**

Fixed external thread, nickel plated brass.

Fulfils IP65.

Features and Benefits

- Multipart compression fitting including elastomeric seal
- Braid is locked between inner and outer compression nuts
- Provides very good electrical continuity
- Provides excellent tensile strength
- Can be used for knockouts or threaded entries as fitting rotates until tightened



HeloGuard PCSB-FMC Fixed Compression Fitting.

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Length (L)	Outside Ø max.	A/F Body	A/F Nut	A/F Inner Nut	Thread Length	Pack Cont.	Colour	Article-No.
PCSB16-FMC-PG11	16	-	PG11	11.5	47.0	32.6	24	24	26	12.0	10 pcs.	Metal (ML)	166-34105
PCSB16-FMC-M16	16	M16	-	11.5	47.0	32.6	24	24	26	12.0	10 pcs.	Metal (ML)	166-34100
PCSB16-FMC-M20	16	M20	-	11.5	49.0	32.6	24	24	26	14.0	10 pcs.	Metal (ML)	166-34101
PCSB20-FMC-PG16	20	-	PG16	15.3	51.0	35.6	26	28	29	14.0	10 pcs.	Metal (ML)	166-34106
PCSB20-FMC-M20	20	M20	-	15.3	51.0	35.6	26	28	29	14.0	10 pcs.	Metal (ML)	166-34102
PCSB25-FMC-PG21	25	-	PG21	19.1	58.0	41.8	33	34	36	15.0	10 pcs.	Metal (ML)	166-34107
PCSB25-FMC-M25	25	M25	-	19.1	58.0	41.8	33	34	36	15.0	10 pcs.	Metal (ML)	166-34103
PCSB32-FMC-PG29	32	-	PG29	26.0	63.0	48.6	40	41	42	16.0	2 pcs.	Metal (ML)	166-34108
PCSB32-FMC-M32	32	M32	-	26.0	63.0	48.6	40	41	42	16.0	2 pcs.	Metal (ML)	166-34104

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



Fittings for metallic conduits with plastic coating and metallic overbraid

- PCSB-SMC Swivel Thread Compression Fitting, IP65

Swivel external thread, nickel plated brass.

Fulfils IP65.

Features and Benefits

- Multipart compression fitting including elastomeric seal
- Braid is locked between inner and outer compression nuts
- Provides very good electrical continuity
- Provides excellent tensile strength
- Can be used for knockouts or threaded entries as fitting rotates until tightened
- External thread swivels about main body even after tightening



HeloGuard PCSB-SMC Swivel Compression Fitting.

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



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Length (L)	Outside Ø max.	A/F Body	A/F Thread	A/F Nut	A/F Inner Nut	Thread Length	Pack Cont.	Colour	Article-No.
PCSB16-SMC-M16	16	M16	11.5	55.0	32.6	24	20	24	26	10.0	10 pcs.	Metal (ML)	166-34200
PCSB16-SMC-M20	16	M20	11.5	55.0	32.6	24	24	24	26	10.0	10 pcs.	Metal (ML)	166-34201
PCSB20-SMC-M20	20	M20	15.3	57.0	35.6	26	26	28	29	10.0	10 pcs.	Metal (ML)	166-34202
PCSB25-SMC-M25	25	M25	19.1	65.0	41.8	33	33	34	36	12.0	10 pcs.	Metal (ML)	166-34203
PCSB32-SMC-M32	32	M32	26.0	71.0	48.6	40	40	41	42	13.0	2 pcs.	Metal (ML)	166-34204

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



Fittings for metallic conduits with plastic coating and metallic overbraid

- PCSB-90FMC 90° Elbow Compression Fitting, IP65

External thread elbow, nickel plated brass.

Fulfils IP65.

Features and Benefits

- Multipart 90°compression fitting including elastomeric seal
- Braid is locked between inner and outer compression nuts
- Provides very good electrical continuity
- Provides excellent tensile strength



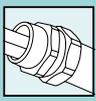
HelaGuard PCSB-90FMC Swivel Compression Fitting.

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



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Outside Ø max.	A/F Body	A/F Nut	A/F Inner Nut	Thread Length	Pack Cont.	Colour	Article-No.
PCSB16-90FMC-M16	16	M16	11.5	32.6	20	24	26	10.0	10 pcs.	Metal (ML)	166-34300
PCSB16-90FMC-M20	16	M20	11.5	32.6	24	24	26	13.0	10 pcs.	Metal (ML)	166-34301
PCSB20-90FMC-M20	20	M20	15.3	35.6	24	28	29	13.0	10 pcs.	Metal (ML)	166-34302
PCSB25-90FMC-M25	25	M25	19.1	41.8	30	34	36	14.0	10 pcs.	Metal (ML)	166-34303
PCSB32-90FMC-M32	32	M32	26.0	48.6	36	41	42	15.0	2 pcs.	Metal (ML)	166-34304

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



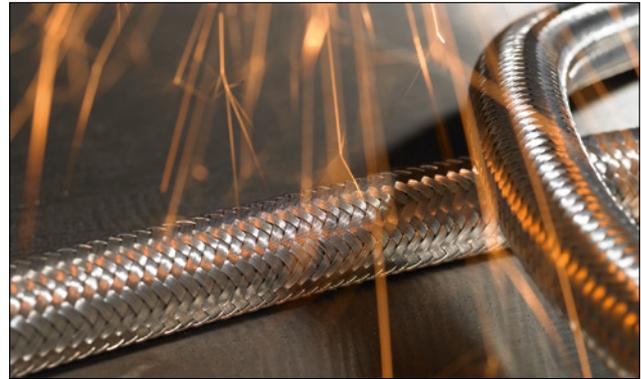
Metallic conduits with metallic overbraid

- SCSB Galvanised Steel Conduit, Galvanised Steel Overbraid

Industrial environments and high temperatures.

Features and Benefits

- High compression, tensile and impact strength
- Highly resistant to abrasion
- Very flexible
- Provides EMC screening
- Highly resistant to hot metal swarf and splashes

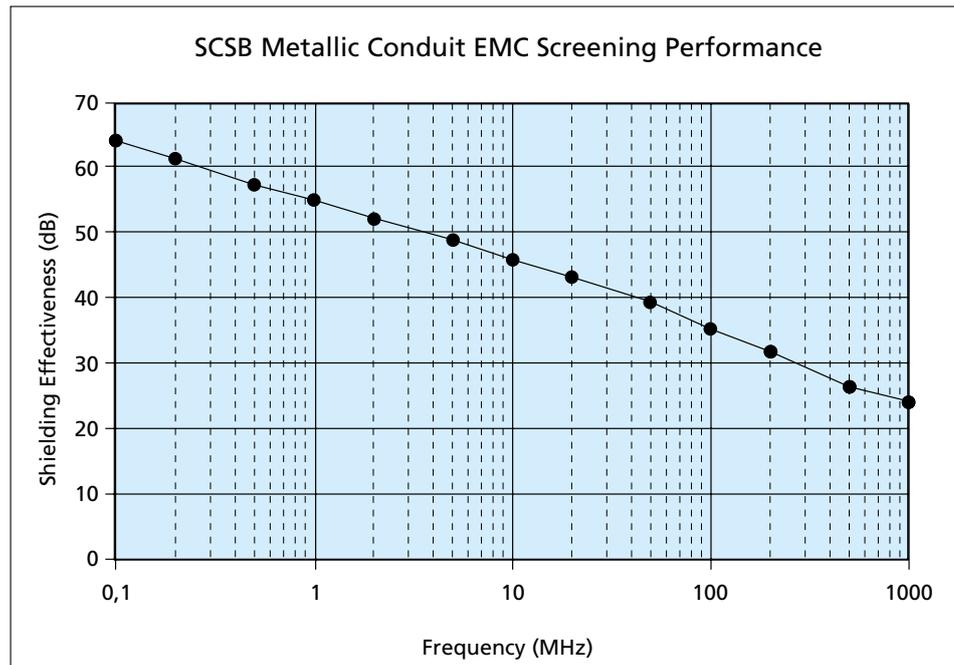


HelaGuard SCSB galvanised steel conduit with galvanised steel overbraid is highly resistant to hot metal swarf and splashes.

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



Stainless steel and tinned copper braiding is also available.



TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
SCSB12	12	14.0	10.2	30	232	25 m	Metal (ML)	166-34400
SCSB16	16	17.5	13.0	40	298	25 m	Metal (ML)	166-34401
SCSB20	20	21.5	16.9	45	446	25 m	Metal (ML)	166-34402
SCSB25	25	26.0	21.1	55	503	25 m	Metal (ML)	166-34403
SCSB32	32	34.0	28.1	70	702	25 m	Metal (ML)	166-34404
SCSB40	40	43.5	37.6	80	1,086	10 m	Metal (ML)	166-34405
SCSB50	50	55.0	48.4	90	1,270	10 m	Metal (ML)	166-34406

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 and metallic overbraid

- SCSB-FM Fixed External Thread

Fixed external thread, nickel plated brass.

Features and Benefits

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



Helaguard SCSB-FM Fixed External Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Length (L)	A/F Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
SCSB12-FM-PG9	12	-	PG9	8.5	28.0	17	17	10.0	10 pcs.	Metal (ML)	166-34607
SCSB12-FM-M16	12	M16	-	8.5	28.0	17	17	10.0	10 pcs.	Metal (ML)	166-34600
SCSB16-FM-PG11	16	-	PG11	11.5	28.0	20	20	10.0	10 pcs.	Metal (ML)	166-34608
SCSB16-FM-M16	16	M16	-	11.5	28.0	20	20	10.0	10 pcs.	Metal (ML)	166-34601
SCSB16-FM-M20	16	M20	-	11.5	28.0	22	20	10.0	10 pcs.	Metal (ML)	166-34602
SCSB20-FM-PG16	20	-	PG16	15.3	30.8	24	26	10.0	10 pcs.	Metal (ML)	166-34609
SCSB20-FM-M20	20	M20	-	15.3	30.8	24	26	10.0	10 pcs.	Metal (ML)	166-34603
SCSB25-FM-PG21	25	-	PG21	19.1	32.5	29	29	10.0	10 pcs.	Metal (ML)	166-34610
SCSB25-FM-M25	25	M25	-	19.1	32.5	29	29	10.0	10 pcs.	Metal (ML)	166-34604
SCSB32-FM-PG29	32	-	PG29	26.0	39.3	36	38	13.0	2 pcs.	Metal (ML)	166-34611
SCSB32-FM-M32	32	M32	-	26.0	39.3	36	38	13.0	2 pcs.	Metal (ML)	166-34605
SCSB40-FM-PG36	40	-	PG36	34.6	42.8	48	48	14.0	1 EA	Metal (ML)	166-34612
SCSB40-FM-M40	40	M40	-	34.6	42.8	48	48	14.0	1 EA	Metal (ML)	166-34606

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



Fittings for metallic conduits and metallic overbraid

- SCSB-SM Swivel External Thread

Swivel external thread, nickel plated brass.

Features and Benefits

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



Helaguard SCSB-SM Swivel External Thread.

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



TYPE	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Min. Bore Size	Length (L)	A/F Body	A/F Thread	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
SCSB12-SM-PG9	12	-	PG9	8.5	36.2	17	17	17	8.0	10 pcs.	Metal (ML)	166-34707
SCSB12-SM-M16	12	M16	-	8.5	36.2	17	17	17	9.0	10 pcs.	Metal (ML)	166-34700
SCSB16-SM-PG11	16	-	PG11	11.5	38.1	20	20	20	10.0	10 pcs.	Metal (ML)	166-34708
SCSB16-SM-M16	16	M16	-	11.5	38.1	20	20	20	10.0	10 pcs.	Metal (ML)	166-34701
SCSB16-SM-M20	16	M20	-	11.5	38.1	20	22	20	10.0	10 pcs.	Metal (ML)	166-34702
SCSB20-SM-PG16	20	-	PG16	15.3	40.0	26	24	24	10.0	10 pcs.	Metal (ML)	166-34709
SCSB20-SM-M20	20	M20	-	15.3	40.0	26	24	24	10.0	10 pcs.	Metal (ML)	166-34703
SCSB25-SM-PG21	25	-	PG21	19.1	47.2	29	29	29	12.0	10 pcs.	Metal (ML)	166-34710
SCSB25-SM-M25	25	M25	-	19.1	47.2	29	29	29	12.0	10 pcs.	Metal (ML)	166-34704
SCSB32-SM-PG29	32	-	PG29	26.0	52.6	38	38	38	13.0	2 pcs.	Metal (ML)	166-34711
SCSB32-SM-M32	32	M32	-	26.0	52.6	38	38	38	13.0	2 pcs.	Metal (ML)	166-34705
SCSB40-SM-PG36	40	-	PG36	34.6	57.8	48	48	48	14.0	1 EA	Metal (ML)	166-34712
SCSB40-SM-M40	40	M40	-	34.6	57.8	48	48	48	14.0	1 EA	Metal (ML)	166-34706

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



Fittings for metallic conduits and metallic overbraid

- SCSB-PC Plain Hole Connector

Plain hole connector, nickel plated brass.

Features and Benefits

- Two part fitting of shell and body without thread
- Acts as a locking device
- The body is fitted to the conduit through the opposite side of the entry
- Provides a smooth entry bush



Helaguard SCSB-PC Plain Hole Connector.

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



TYPE	Nominal Ø	Min. Bore Size	Length (L)	A/F Body	A/F Nut	Pack Cont.	Colour	Article-No.
SCSB12-PC	12	8.5	18.0	17	17	10 pcs.	Metal (ML)	166-34800
SCSB16-PC	16	11.5	18.9	20	20	10 pcs.	Metal (ML)	166-34801
SCSB20-PC	20	15.3	21.0	24	26	10 pcs.	Metal (ML)	166-34802
SCSB25-PC	25	19.1	23.5	29	29	10 pcs.	Metal (ML)	166-34803
SCSB32-PC	32	26.0	26.3	38	38	2 pcs.	Metal (ML)	166-34804
SCSB40-PC	40	34.6	28.8	48	48	1 EA	Metal (ML)	166-34805

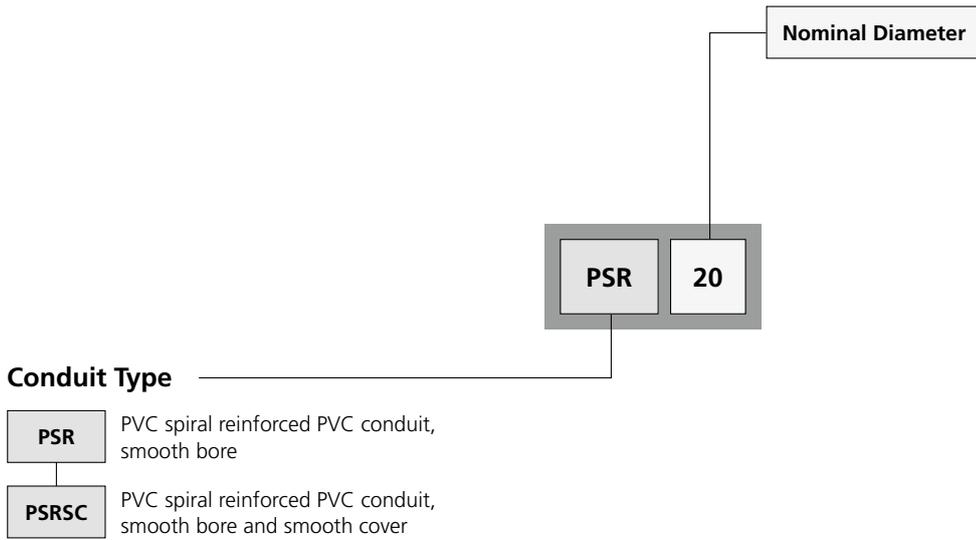
All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

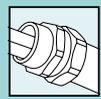


HelaGuard Nomenclature for Spiral-Reinforced PVC Conduits

Example:

PSR20





Spiral-reinforced PVC Conduits

- **PSR Conduit**

Machine building, plant construction, shipbuilding, automation, electrical installations

Features and Benefits

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



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

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



One Step to the Web!

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

RoHS ✓

TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
PSR12	12	14.5	10	25	71	30 m	Grey (GY)	166-40001
PSR16	16	16.5	12	25	76	30 m	Grey (GY)	166-40002
PSR20	20	21.0	16	35	112	30 m	Grey (GY)	166-40003
PSR25	25	27.5	22	45	153	30 m	Grey (GY)	166-40004
PSR32	32	33.5	28	60	327	30 m	Grey (GY)	166-40005
PSR40	40	41.0	35	80	448	30 m	Grey (GY)	166-40006
PSR50	50	46.4	40	105	725	30 m	Grey (GY)	166-40007
PSR63	63	57.0	50	120	948	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! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Spiral-reinforced PVC Conduits

- **PSRSC Conduit**

Machine building, plant construction, shipbuilding, automation, electrical installations.

Features and Benefits

- Flexible
- Easy to clean outside surface
- Withstands some torsional movement
- Self-extinguishing
- Easy to feed cables
- Can be used with PSR PA66 fittings and PSRSC metal fittings
- Colour: black; light grey, orange (highly flexible), green (oil resistant), blue (high temperature resistant) upon request



PSRSC allows for easy insertion of cables and cleaning of outside surface.

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

MATERIAL	Polyvinylchloride (PVC)
Operating Temperature	-5 °C to +70 °C
Flammability	self-extinguishing according to EN IEC 61386

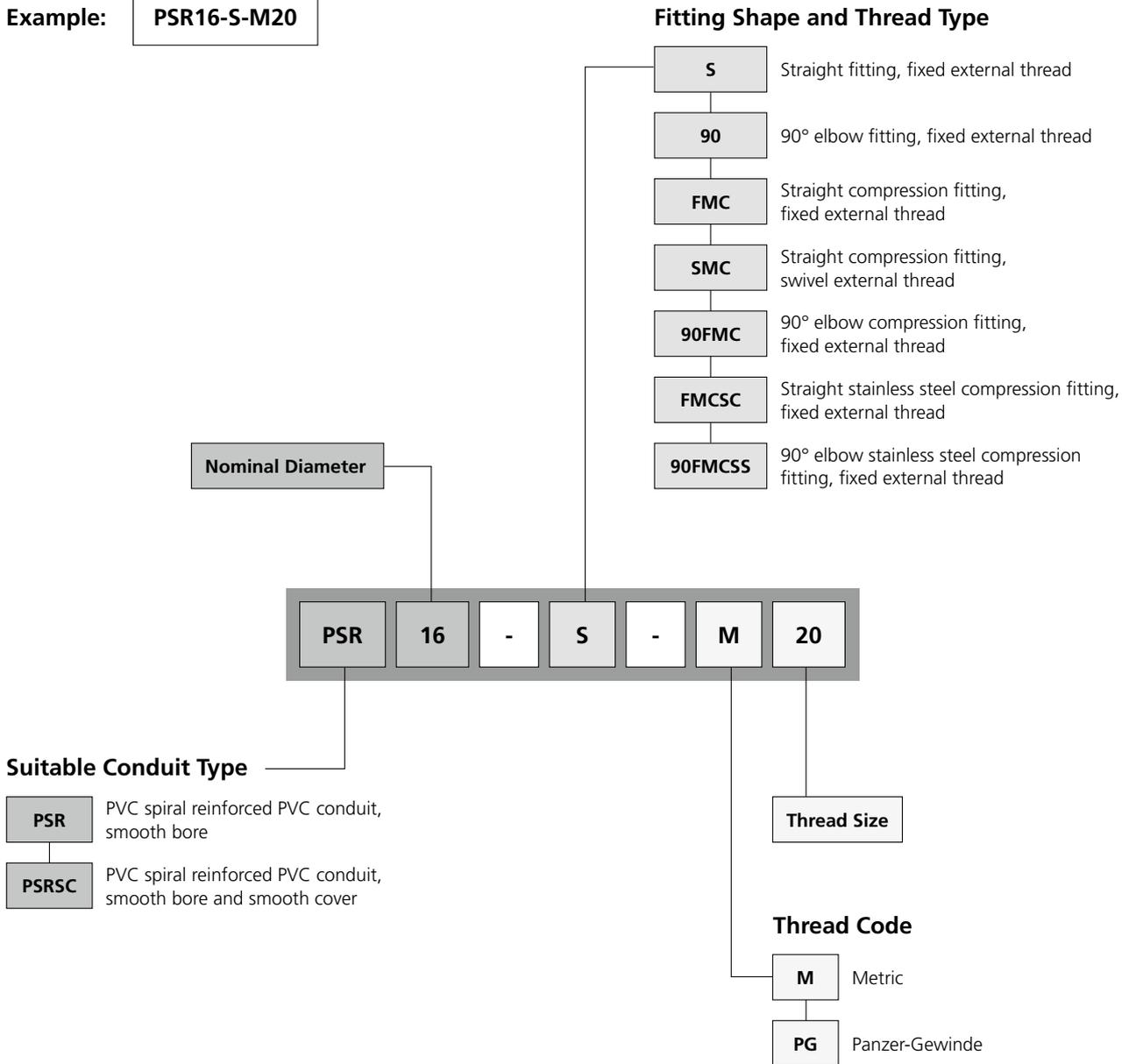
RoHS ✓

TYPE	Nominal Ø	Outside Ø (OD)	Inside Ø	Bending Radius	Weight (g/m)	Reel Length	Colour	Article-No.
PSRSC12	12	14.2	10.0	50	76	30 m	Grey (GY)	166-40301
PSRSC16	16	17.8	12.0	50	139	30 m	Grey (GY)	166-40302
PSRSC20	20	21.1	16.0	70	174	30 m	Grey (GY)	166-40303
PSRSC25	25	26.4	21.0	90	235	30 m	Grey (GY)	166-40304
PSRSC32	32	33.1	26.5	140	327	30 m	Grey (GY)	166-40305
PSRSC40	40	41.8	35.4	190	448	30 m	Grey (GY)	166-40306
PSRSC50	50	47.9	40.0	240	725	30 m	Grey (GY)	166-40307
PSRSC63	63	59.7	51.3	270	948	30 m	Grey (GY)	166-40308

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

HelaGuard Nomenclature for Spiral-Reinforced PVC Fittings

Example: **PSR16-S-M20**





Fittings for spiral-reinforced PVC Conduits

- **PSR-S Straight fitting**

Straight PA66 fitting, external thread
IP65 with PSR Conduits
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 45° available on request.

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

HF ✓

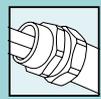
RoHS ✓

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

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



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings for spiral-reinforced PVC Conduits

- **PSR-90 90° elbow fitting**

90° PA66 fitting, external thread
IP65 with PSR Conduits
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 45° available on request.

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

HF ✓

RoHS ✓

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

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



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Fittings for spiral-reinforced PVC Conduits

- **PSRSC-FMC compression fitting**

Straight fitting, fixed external thread, nickel plated brass.
Fulfils IP66, IP67 and IP68 with PRSCS conduits.

Features and Benefits

- Multipart compression fitting including elastomeric seal
- Can be used for knockouts or threaded entries as fitting rotates until tightened
- Fits PSRSC conduits



Helaguard PSRSC-FMC Compression Fitting.

PSRSC-FMC-Fittings with PG-Thread available on request.

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

HF ✓ RoHS ✓

TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Length (L)	A/F Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
PSRSC12-FMC-M16	12	M16	8.6	29.8	20	22	10.0	10 pcs.	Metal (ML)	166-41001
PSRSC16-FMC-M16	16	M16	10.7	33.0	24	26	12.0	10 pcs.	Metal (ML)	166-41002
PSRSC16-FMC-M20	16	M20	10.7	33.0	24	26	12.0	10 pcs.	Metal (ML)	166-41003
PSRSC20-FMC-M20	20	M20	14.5	33.5	26	29	12.0	10 pcs.	Metal (ML)	166-41004
PSRSC25-FMC-M25	25	M25	18.0	40.5	33	35	14.0	10 pcs.	Metal (ML)	166-41005
PSRSC32-FMC-M32	32	M32	24.6	45.8	40	42	15.0	2 pcs.	Metal (ML)	166-41006
PSRSC40-FMC-M40	40	M40	32.7	47.5	50	52	16.0	1 EA	Metal (ML)	166-41007
PSRSC50-FMC-M50	50	M50	37.7	51.0	58	58	16.0	1 EA	Metal (ML)	166-41008
PSRSC63-FMC-M63	63	M63	49.0	58.8	70	70	20.0	1 EA	Metal (ML)	166-41009

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



Fittings for spiral-reinforced PVC Conduits

- **PSRSC-FMC swivel fitting**

Straight fitting, swivel, external thread, nickel plated brass.
Fulfils IP66, IP67 and IP68 with PRSCS conduits.

Features and Benefits

- Multipart compression fitting including elastomeric seal
- Can be used for knockouts or threaded entries as fitting rotates until tightened
- Fits PSRSC conduits



Helaguard PSRSC-SMC Swivel Compression Fitting.

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



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Length (L)	A/F Body	A/F Thread	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
PSRSC16-SMC-M16	16	M16	10.7	40.9	24	24	26	10.0	10 pcs.	Metal (ML)	166-41101
PSRSC16-SMC-M20	16	M20	10.7	41.0	24	24	26	10.0	10 pcs.	Metal (ML)	166-41102
PSRSC20-SMC-M20	20	M20	14.5	41.8	26	26	29	10.0	10 pcs.	Metal (ML)	166-41103
PSRSC25-SMC-M25	25	M25	18.0	50.7	33	29	35	12.0	10 pcs.	Metal (ML)	166-41104
PSRSC32-SMC-M32	32	M32	24.6	56.9	40	38	42	13.0	2 pcs.	Metal (ML)	166-41105

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



Fittings for spiral-reinforced PVC Conduits

- **PSRSC-90FMC 90° compression fitting**

90° fitting, fixed external thread, nickel plated brass.
Fulfils IP66, IP67 and IP68 with PRSCS conduits.

Features and Benefits

- Multipart 90° compression fitting including elastomeric
- Can be used for knockouts or threaded entries as fitting rotates until tightened
- Fits PSRSC conduits



Helaguard PSRSC-90FMC 90° Elbow Compression Fitting.

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



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	A/F Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
PSRSC12-90FMC-M16	12	M16	8.6	20	22	10	10 pcs.	Metal (ML)	166-41201
PSRSC16-90FMC-M16	16	M16	10.7	20	26	10	10 pcs.	Metal (ML)	166-41202
PSRSC16-90FMC-M20	16	M20	10.7	24	26	13	10 pcs.	Metal (ML)	166-41203
PSRSC20-90FMC-M20	20	M20	14.5	24	29	13	10 pcs.	Metal (ML)	166-41204
PSRSC25-90FMC-M25	25	M25	18.0	30	35	14	10 pcs.	Metal (ML)	166-41205
PSRSC32-90FMC-M32	32	M32	24.6	36	42	15	2 pcs.	Metal (ML)	166-41206
PSRSC40-90FMC-M40	40	M40	32.7	46	52	18	1 EA	Metal (ML)	166-41207
PSRSC50-90FMC-M50	50	M50	37.7	57	58	18	1 EA	Metal (ML)	166-41208
PSRSC63-90FMC-M63	63	M63	49.0	72	70	20	1 EA	Metal (ML)	166-41209

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



Fittings for spiral-reinforced PVC Conduits

- **PSRSC-FMCSS compression fitting**

Straight fitting, external thread, stainless steel (SS316).
Fulfils IP66, IP67 and IP68 with PRSCS conduits.

Features and Benefits

- Multipart stainless steel (SS316) compression fitting including elastomeric seal
- Can be used for knockouts or threaded entries as fitting rotates until tightened
- Fits PSRSC conduits



PSRSC-FMCSS Straight Compression Fitting.

MATERIAL	Stainless Steel (SS316), Polyamide 6 (PA6)
Operating Temperature	-40 °C to +135 °C



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	Length (L)	A/F Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
PSRSC16-FMCSS-M16	16	M16	10.7	33.0	24	26	12.0	1 EA	Metal (ML)	166-41301
PSRSC16-FMCSS-M20	16	M20	10.7	33.0	24	26	12.0	1 EA	Metal (ML)	166-41302
PSRSC20-FMCSS-M20	20	M20	14.5	33.5	26	29	12.0	1 EA	Metal (ML)	166-41303
PSRSC25-FMCSS-M25	25	M25	18.0	40.5	33	35	14.0	1 EA	Metal (ML)	166-41304
PSRSC32-FMCSS-M32	32	M32	24.6	45.8	40	42	15.0	1 EA	Metal (ML)	166-41305

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



Fittings for spiral-reinforced PVC Conduits

- **PSRSC-90FMCSS 90° compression fitting**

90° fitting, fixed external thread, stainless steel (SS314).
Fulfils IP66, IP67 and IP68 with PRSCS conduits.

Features and Benefits

- Multipart 90° stainless steel (SS316) compression fitting including elastomeric seal
- Can be used for knockouts or threaded entries as fitting rotates until tightened
- Fits PSRSC conduits



Helaguard PSRSC-90FMCSS 90° Elbow Compression Fitting.

MATERIAL	Stainless Steel (SS316), Polyamide 6 (PA6)
Operating Temperature	-40 °C to +135 °C



TYPE	Nominal Ø	Thread Size (metric)	Min. Bore Size	A/F Body	A/F Nut	Thread Length	Pack Cont.	Colour	Article-No.
PSRSC16-90FMCSS-M20	16	M20	10.7	24	26	13.0	1 EA	Metal (ML)	166-41401
PSRSC20-90FMCSS-M20	20	M20	14.5	24	29	13.0	1 EA	Metal (ML)	166-41402
PSRSC25-90FMCSS-M25	25	M25	18.0	30	35	14.0	1 EA	Metal (ML)	166-41403
PSRSC32-90FMCSS-M32	32	M32	24.6	36	42	15.0	1 EA	Metal (ML)	166-41404

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



FlexiGuard Conduits & Fittings

- FlexiGuard PVC Protective Conduits

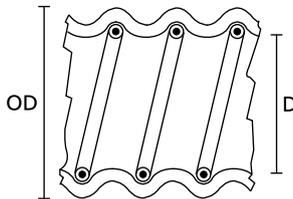
FlexiGuard protective hoses are used to protect cables in machines and plant construction, and robotics as well as leads to switch cabinets.

Features and Benefits

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



FlexiGuard FG with FG-UH fitting.



FlexiGuard

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



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

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



FlexiGuard Conduits & Fittings

- **FG-M Fittings**

The TV fittings and TH fasteners are used to protect against dust and moisture, for instance outdoors or wherever dust and moisture are a particular hazard.

Features and Benefits

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



FG-M Metric Conduit Fitting.

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

HF ✓

RoHS ✓

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

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



FlexiGuard Conduits & Fittings

- **FG-UH Fittings with Bracket**

The fittings are used to fix Flexiguard hoses securely and to protect against dust or liquids.

Features and Benefits

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



FG-UH fitting with bracket.

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

HF ✓

RoHS ✓

TYPE	For Hose Outer Ø D	Min. Bore Size	Length (L)	Hole Ø (FH)	Fixing Hole Centres (F)	Colour	Article-No.
FG14-UH	14	8.8	42.0	5.7	29.0	Grey (GY)	167-00520
FG17-UH	17	11.1	45.5	5.7	37.0	Grey (GY)	167-00521
FG19-UH	19	13.0	47.5	5.7	37.0	Grey (GY)	167-00522
FG21-UH	21	14.8	49.8	5.7	37.0	Grey (GY)	167-00523
FG27-UH	27	19.4	52.0	5.7	43.0	Grey (GY)	167-00524
FG36-UH	36	27.9	55.0	6.7	53.0	Grey (GY)	167-00525
FG45-UH	45	35.6	58.0	6.7	65.0	Grey (GY)	167-00526
FG56-UH	56	45.9	60.5	6.7	76.0	Grey (GY)	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

Features and Benefits

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

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



HelaGuard PACC Conduit Clip.



One Step to the Web!

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

• AFCP Clip for Rigid Conduits

Features and Benefits

- Easy and quick assembly with metallic conduits
- Lid is integrated
- Hole for fastening with screw
- Can be used in C-shaped DIN rails

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



HelaGuard AFCP Conduit Clip.

TYPE	Nominal Ø	Hole Ø (FH)	Height (H)	Width (W)	Length (L)	Pack Cont.	Colour	Article-No.
AFCP16	16	M5	30	12	26	10 pcs.	Black (BK)	166-50700
AFCP20	20	M6	36	15	32	10 pcs.	Black (BK)	166-50701
AFCP25	25	M6	45	15	41	10 pcs.	Black (BK)	166-50702
AFCP33	32	M6	51	15	48	10 pcs.	Black (BK)	166-50703

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

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



Helaguard AFCS Fixing Clip, Stainless Steel and PVC Liner.

TYPE	Nominal Ø	Width (W)	Width (W2)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
AFCS10	10	12.7	17.4	5,1	10 pcs.	Metal (ML), Black (BK)	166-50600
AFCS12	12	12.7	17.4	5,1	10 pcs.	Metal (ML), Black (BK)	166-50601
AFCS16	16	12.7	17.4	5,1	10 pcs.	Metal (ML), Black (BK)	166-50602
AFCS20	20	12.7	17.4	5,1	10 pcs.	Metal (ML), Black (BK)	166-50603
AFCS25	25	12.7	17.4	5,1	10 pcs.	Metal (ML), Black (BK)	166-50604
AFCS32	32	12.7	17.4	5,1	10 pcs.	Metal (ML), Black (BK)	166-50605
AFCS40	40	25.4	30.5	14,2 x 17,5	5 pcs.	Metal (ML), Black (BK)	166-50606
AFCS50	50	25.4	30.5	14,2 x 17,5	5 pcs.	Metal (ML), Black (BK)	166-50607
AFCS63	63	25.4	30.5	14,2 x 17,5	1 EA	Metal (ML), Black (BK)	166-50608
AFCS75	75	25.4	30.5	14,2 x 17,5	1 EA	Metal (ML), Black (BK)	166-50609

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

HelaGuard Accessories

- AFCSS Fixing Clip, Stainless Steel

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



Helaguard AFCSS Fixing Clip, Stainless Steel.

TYPE	Nominal Ø	Width (W)	Hole Ø (FH)	Pack Cont.	Colour	Article-No.
AFCSS10	10	11.1	5.1	10 pcs.	Metal (ML)	166-50610
AFCSS12	12	11.1	5.1	10 pcs.	Metal (ML)	166-50611
AFCSS16	16	11.1	5.1	10 pcs.	Metal (ML)	166-50612
AFCSS20	20	11.1	5.1	10 pcs.	Metal (ML)	166-50613
AFCSS25	25	11.1	5.1	10 pcs.	Metal (ML)	166-50614
AFCSS32	32	11.1	5.1	10 pcs.	Metal (ML)	166-50615
AFCSS40	40	12.7	7.1	5 pcs.	Metal (ML)	166-50616
AFCSS50	50	12.7	7.1	5 pcs.	Metal (ML)	166-50617

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



HelaGuard Accessories

- A90FM 90° Elbow

Internal and external thread, nickel plated brass.

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



HelaGuard A90FM 90° Elbow.

TYPE	External Thread Size (metric)	Internal Thread Size (metric)	Min. Bore Size	Height (H)	Width (W)	External Thread Length	Internal Thread Length	Pack Cont.	Colour	Article-No.
A90FM-M16	M16	M16	12.0	38.0	31.0	10	11	10 pcs.	Metal (ML)	166-50001
A90FM-M20	M20	M20	15.8	46.0	35.0	13	13	10 pcs.	Metal (ML)	166-50002
A90FM-M25	M25	M25	20.4	55.8	43.8	14	16	10 pcs.	Metal (ML)	166-50003
A90FM-M32	M32	M32	27.0	66.6	53.6	15	16	2 pcs.	Metal (ML)	166-50004
A90FM-M40	M40	M40	34.6	80.4	67.0	18	17	1 EA	Metal (ML)	166-50005
A90FM-M50	M50	M50	44.6	99.0	80.5	18	18	1 EA	Metal (ML)	166-50006

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

- ACP Couplers

Internally threaded, nickel plated brass.

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



HelaGuard ACP Couplers.

TYPE	Thread Size (metric)	Length (L)	A/F Body	Pack Cont.	Colour	Article-No.
ACP-M16	M16	22.5	20	10 pcs.	Metal (ML)	166-50400
ACP-M20	M20	25.0	24	10 pcs.	Metal (ML)	166-50401
ACP-M25	M25	30.0	29	10 pcs.	Metal (ML)	166-50402
ACP-M32	M32	32.5	35	10 pcs.	Metal (ML)	166-50403
ACP-M40	M40	34.0	48	2 pcs.	Metal (ML)	166-50404
ACP-M50	M50	38.0	58	1 EA	Metal (ML)	166-50405
ACP-M63	M63	45.0	70	1 EA	Metal (ML)	166-50406
ACP-M75	M75	45.0	84	1 EA	Metal (ML)	166-50407

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



HelaGuard Accessories

- ALNPB Nickel Plated Brass Locknuts



HelaGuard ALNPB Nickel Plated Brass Locknuts.

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

HF ✓

RoHS ✓

TYPE	Thread Size (metric)	Thread Size (PG)	A/F Nut	Outside Ø max.	Thickness (T)	Pack Cont.	Colour	Article-No.
ALNPB-PG7	-	PG7	15	17	2.8	10 pcs.	Metal (ML)	166-50109
ALNPB-PG9	-	PG9	20	23	3.5	10 pcs.	Metal (ML)	166-50110
ALNPB-PG11	-	PG11	22	25	3.5	10 pcs.	Metal (ML)	166-50111
ALNPB-PG13	-	PG13.5	24	28	3.5	10 pcs.	Metal (ML)	166-50112
ALNPB-PG16	-	PG16	26	30	3.6	10 pcs.	Metal (ML)	166-50113
ALNPB-PG21	-	PG21	33	37	3.7	10 pcs.	Metal (ML)	166-50114
ALNPB-PG29	-	PG29	42	46	4.0	1 EA	Metal (ML)	166-50115
ALNPB-PG36	-	PG36	52	57	5.0	1 EA	Metal (ML)	166-50116
ALNPB-PG42	-	PG42	60	65	5.0	1 EA	Metal (ML)	166-50117
ALNPB-PG48	-	PG48	64	70	5.0	1 EA	Metal (ML)	166-50118
ALNPB-M12	M12	-	15	17	3.5	10 pcs.	Metal (ML)	166-50100
ALNPB-M16	M16	-	20	23	3.5	10 pcs.	Metal (ML)	166-50101
ALNPB-M20	M20	-	24	28	3.5	10 pcs.	Metal (ML)	166-50102
ALNPB-M25	M25	-	29	33	3.5	10 pcs.	Metal (ML)	166-50103
ALNPB-M32	M32	-	38	43	4.5	2 pcs.	Metal (ML)	166-50104
ALNPB-M40	M40	-	48	54	5.0	1 EA	Metal (ML)	166-50105
ALNPB-M50	M50	-	58	66	6.0	1 EA	Metal (ML)	166-50106
ALNPB-M63	M63	-	70	79	6.5	1 EA	Metal (ML)	166-50107
ALNPB-M75	M75	-	84	94	7.0	1 EA	Metal (ML)	166-50108

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



HelaGuard Accessories

• ALS Plated Steel Locknuts

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



HelaGuard ALS Plated Steel Locknuts.

TYPE	Thread Size (metric)	A/F Nut	Outside Ø max.	Thickness (T)	Pack Cont.	Colour	Article-No.
ALS-M16	M16	24	27	3	10 pcs.	Metal (ML)	166-50119
ALS-M20	M20	25	28	3	10 pcs.	Metal (ML)	166-50120
ALS-M25	M25	33	38	3	10 pcs.	Metal (ML)	166-50121
ALS-M32	M32	41	47	3	2 pcs.	Metal (ML)	166-50122
ALS-M40	M40	50	58	4	1 EA	Metal (ML)	166-50123
ALS-M50	M50	63	72	4	1 EA	Metal (ML)	166-50124
ALS-M63	M63	80	92	5	1 EA	Metal (ML)	166-50125

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

• ALSS Stainless Steel Locknuts

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



HelaGuard ALSS Stainless Steel Locknuts.

TYPE	Thread Size (metric)	A/F Nut	Outside Ø max.	Thickness (T)	Pack Cont.	Colour	Article-No.
ALSS-M16	M16	20	23	3.5	10 pcs.	Metal (ML)	166-50126
ALSS-M20	M20	24	28	3.5	10 pcs.	Metal (ML)	166-50127
ALSS-M25	M25	30	34	3.5	10 pcs.	Metal (ML)	166-50128
ALSS-M32	M32	38	43	4.5	2 pcs.	Metal (ML)	166-50129
ALSS-M40	M40	48	53	5.0	1 EA	Metal (ML)	166-50130
ALSS-M50	M50	60	65	6.0	1 EA	Metal (ML)	166-50131
ALSS-M63	M63	70	76	6.5	1 EA	Metal (ML)	166-50132

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



HelaGuard Accessories

- ALPA PA66 Locknuts



HelaGuard ALPA PA66 Locknuts.

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



TYPE	Thread Size (metric)	Thread Size (PG)	A/F Nut	Outside Ø max.	Thickness (T)	Pack Cont.	Colour	Article-No.
ALPA-PG7	-	PG7	19	21	5	10 pcs.	Black (BK)	166-50141
ALPA-PG9	-	PG9	22	24	5	10 pcs.	Black (BK)	166-50142
ALPA-PG11	-	PG11	24	26	5	10 pcs.	Black (BK)	166-50143
ALPA-PG13	-	PG13.5	27	29	6	10 pcs.	Black (BK)	166-50144
ALPA-PG16	-	PG16	30	33	6	10 pcs.	Black (BK)	166-50145
ALPA-PG21	-	PG21	36	39	7	10 pcs.	Black (BK)	166-50146
ALPA-PG29	-	PG29	46	50	7	1 EA	Black (BK)	166-50147
ALPA-PG36	-	PG36	60	66	8	1 EA	Black (BK)	166-50148
ALPA-PG42	-	PG42	65	73	8	1 EA	Black (BK)	166-50149
ALPA-PG48	-	PG48	70	78	8	1 EA	Black (BK)	166-50150
ALPA-M12	M12	-	18	20	5	10 pcs.	Black (BK)	166-50133
ALPA-M16	M16	-	22	24	5	10 pcs.	Black (BK)	166-50134
ALPA-M20	M20	-	26	29	6	10 pcs.	Black (BK)	166-50135
ALPA-M25	M25	-	32	35	6	10 pcs.	Black (BK)	166-50136
ALPA-M32	M32	-	41	46	7	2 pcs.	Black (BK)	166-50137
ALPA-M40	M40	-	50	55	7	1 EA	Black (BK)	166-50138
ALPA-M50	M50	-	60	66	8	1 EA	Black (BK)	166-50139
ALPA-M63	M63	-	75	83	8	1 EA	Black (BK)	166-50140

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

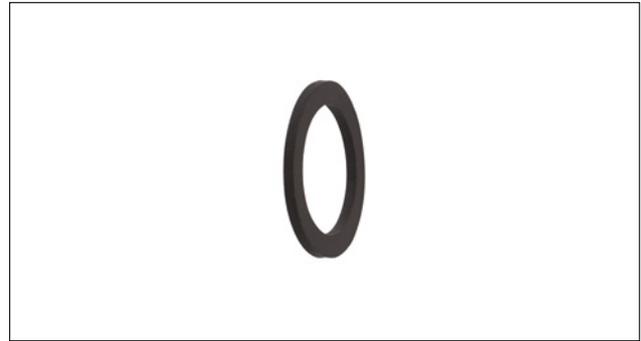


HelaGuard Accessories

• AWS Chloroprene Sealing Washers

Features and Benefits

- Protects against water and dust
- For PG and metric threads
- Resistant to oil
- 80 Shore A compression strength



HelaGuard AWS Chloroprene Sealing Washers.

MATERIAL	Chloroprene (CR)
Operating Temperature	-40 °C to +135 °C



TYPE	Thread Size (metric)	Thread Size (PG)	Outside Ø (OD)	Inside Ø	Thickness (T)	Pack Cont.	Colour	Article-No.
AWS-PG7	-	PG7	20	11.5	1.5	100 pcs.	Black (BK)	166-50508
AWS-PG9	-	PG9	24	14.7	1.5	100 pcs.	Black (BK)	166-50509
AWS-PG11	-	PG11	25	18.1	1.5	100 pcs.	Black (BK)	166-50510
AWS-PG13	-	PG13.5	28	19.5	1.5	100 pcs.	Black (BK)	166-50511
AWS-PG16	-	PG16	29	22.0	1.5	50 pcs.	Black (BK)	166-50512
AWS-PG21	-	PG21	35	27.8	1.5	10 pcs.	Black (BK)	166-50513
AWS-PG29	-	PG29	44	36.5	1.5	10 pcs.	Black (BK)	166-50514
AWS-PG36	-	PG36	54	46.5	1.5	10 pcs.	Black (BK)	166-50515
AWS-PG42	-	PG42	61	53.5	1.5	10 pcs.	Black (BK)	166-50516
AWS-PG48	-	PG48	70	58.8	1.5	10 pcs.	Black (BK)	166-50517
AWS-M12	M12	-	20	11.5	1.5	100 pcs.	Black (BK)	166-50500
AWS-M16	M16	-	24	15.5	1.5	100 pcs.	Black (BK)	166-50501
AWS-M20	M20	-	28	19.5	1.5	50 pcs.	Black (BK)	166-50502
AWS-M25	M25	-	34	24.5	1.5	10 pcs.	Black (BK)	166-50503
AWS-M32	M32	-	42	31.5	1.5	10 pcs.	Black (BK)	166-50504
AWS-M40	M40	-	50	39.5	1.5	10 pcs.	Black (BK)	166-50505
AWS-M50	M50	-	60	49.5	1.5	10 pcs.	Black (BK)	166-50506
AWS-M63	M63	-	73	62.5	1.5	10 pcs.	Black (BK)	166-50507

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

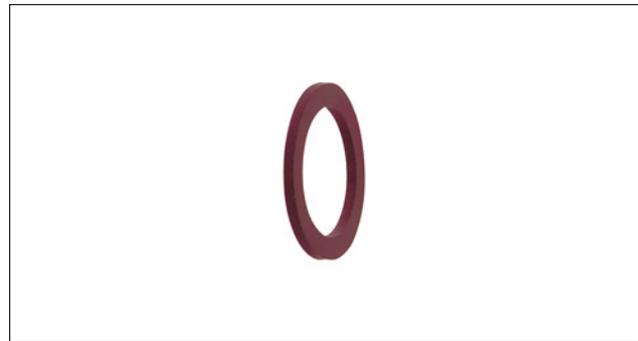


HelaGuard Accessories

- **AFWS Vulcanised Fibre Sealing Washers**

Features and Benefits

- Rugged, tough material (78 Shore D Hardness) for tighter seal
- Protects against water and dust
- For PG and metric threads
- Resistant to oil
- 78 Shore D hardness



HelaGuard AFWS Vulcanised Fibre Sealing Washers.

MATERIAL	Vulcanised Fibre (VF)
Operating Temperature	-50 °C to +135 °C



TYPE	Thread Size (PG)	Thread Size (metric)	Outside Ø (OD)	Inside Ø	Thickness (T)	Pack Cont.	Colour	Article-No.
AFWS-M12	-	M12	20.0	12.0	1.6	100 pcs.	Red (RD)	166-50518
AFWS-M16	-	M16	22.0	16.0	1.6	100 pcs.	Red (RD)	166-50519
AFWS-M20	-	M20	26.0	20.0	1.6	50 pcs.	Red (RD)	166-50520
AFWS-M25	-	M25	32.0	25.0	1.6	10 pcs.	Red (RD)	166-50521
AFWS-M32	-	M32	41.2	32.0	1.6	10 pcs.	Red (RD)	166-50522
AFWS-M40	-	M40	50.0	40.0	1.6	10 pcs.	Red (RD)	166-50523
AFWS-M50	-	M50	60.0	50.0	1.6	10 pcs.	Red (RD)	166-50524
AFWS-M63	-	M63	73.0	63.0	1.6	10 pcs.	Red (RD)	166-50525
AFWS-PG7	PG7	-	16.5	12.5	1.6	100 pcs.	Red (RD)	166-50526
AFWS-PG9	PG9	-	21.2	15.2	1.6	100 pcs.	Red (RD)	166-50527
AFWS-PG11	PG11	-	24.6	18.2	1.6	100 pcs.	Red (RD)	166-50528
AFWS-PG13	PG13.5	-	26.4	20.4	1.6	100 pcs.	Red (RD)	166-50529
AFWS-PG16	PG16	-	28.5	22.5	1.6	50 pcs.	Red (RD)	166-50530
AFWS-PG21	PG21	-	34.3	28.3	1.6	10 pcs.	Red (RD)	166-50531
AFWS-PG29	PG29	-	43.0	37.0	1.6	10 pcs.	Red (RD)	166-50532
AFWS-PG36	PG36	-	53.0	47.0	1.6	10 pcs.	Red (RD)	166-50533
AFWS-PG42	PG42	-	60.8	54.0	1.6	10 pcs.	Red (RD)	166-50534
AFWS-PG48	PG48	-	67.3	59.3	1.6	10 pcs.	Red (RD)	166-50535

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



HelaGuard Accessories

• CNV Converters

Nickel plated brass.



HelaGuard CNV Convertors.

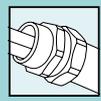
MATERIAL	Nickel Plated Brass (NPB)
Operating Temperature	-100 °C to +300 °C

HF ✓

RoHS ✓

TYPE	Thread Size internal	Thread Size external	Pack Cont.	Colour	Article-No.
CNV-M20-M16	M16	M20	10 pcs.	Metal (ML)	166-50900
CNV-PG7-M16	M16	PG7	10 pcs.	Metal (ML)	166-50901
CNV-PG9-M16	M16	PG9	10 pcs.	Metal (ML)	166-50902
CNV-PG11-M16	M16	PG11	10 pcs.	Metal (ML)	166-50903
CNV-PG13-M16	M16	PG13.5	10 pcs.	Metal (ML)	166-50904
CNV-PG16-M16	M16	PG16	10 pcs.	Metal (ML)	166-50905
CNV-M16-M20	M20	M16	10 pcs.	Metal (ML)	166-50906
CNV-M25-M20	M20	M25	10 pcs.	Metal (ML)	166-50907
CNV-PG9-M20	M20	PG9	10 pcs.	Metal (ML)	166-50908
CNV-PG11-M20	M20	PG11	10 pcs.	Metal (ML)	166-50909
CNV-PG13-M20	M20	PG13.5	10 pcs.	Metal (ML)	166-50910
CNV-PG16-M20	M20	PG16	10 pcs.	Metal (ML)	166-50911
CNV-PG21-M20	M20	PG21	10 pcs.	Metal (ML)	166-50912
CNV-PG29-M20	M20	PG29	2 pcs.	Metal (ML)	166-50913
CNV-M20-M25	M25	M20	10 pcs.	Metal (ML)	166-50914
CNV-M32-M25	M25	M32	10 pcs.	Metal (ML)	166-50915
CNV-M50-M25	M25	M50	1 EA	Metal (ML)	166-50917
CNV-PG16-M25	M25	PG16	10 pcs.	Metal (ML)	166-50918
CNV-PG21-M25	M25	PG21	10 pcs.	Metal (ML)	166-50919
CNV-PG29-M25	M25	PG29	2 pcs.	Metal (ML)	166-50920
CNV-M25-M32	M32	M25	10 pcs.	Metal (ML)	166-50921
CNV-M40-M32	M32	M40	2 pcs.	Metal (ML)	166-50922
CNV-M50-M32	M32	M50	1 EA	Metal (ML)	166-50923
CNV-PG21-M32	M32	PG21	2 pcs.	Metal (ML)	166-50924
CNV-PG29-M32	M32	PG29	2 pcs.	Metal (ML)	166-50925
CNV-PG36-M32	M32	PG36	2 pcs.	Metal (ML)	166-50926
CNV-M50-M40	M40	M50	1 EA	Metal (ML)	166-50927

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



HelaGuard Accessories

- CNV Converters

TYPE	Thread Size internal	Thread Size external	Pack Cont.	Colour	Article-No.
CNV-M63-M40	M40	M63	1 EA	Metal (ML)	166-50928
CNV-PG29-M40	M40	PG29	1 EA	Metal (ML)	166-50929
CNV-PG36-M40	M40	PG36	1 EA	Metal (ML)	166-50930
CNV-M63-M50	M50	M63	1 EA	Metal (ML)	166-50931
CNV-M16-PG7	PG7	M16	10 pcs.	Metal (ML)	166-51000
CNV-M20-PG7	PG7	M20	10 pcs.	Metal (ML)	166-51001
CNV-PG9-PG7	PG7	PG9	10 pcs.	Metal (ML)	166-51002
CNV-PG11-PG7	PG7	PG11	10 pcs.	Metal (ML)	166-51003
CNV-PG13-PG7	PG7	PG13.5	10 pcs.	Metal (ML)	166-51004
CNV-PG16-PG7	PG7	PG16	10 pcs.	Metal (ML)	166-51005
CNV-M16-PG9	PG9	M16	10 pcs.	Metal (ML)	166-51006
CNV-M20-PG9	PG9	M20	10 pcs.	Metal (ML)	166-51007
CNV-PG7-PG9	PG9	PG7	10 pcs.	Metal (ML)	166-51008
CNV-PG11-PG9	PG9	PG11	10 pcs.	Metal (ML)	166-51009
CNV-PG13-PG9	PG9	PG13.5	10 pcs.	Metal (ML)	166-51010
CNV-PG16-PG9	PG9	PG16	10 pcs.	Metal (ML)	166-51011
CNV-M16-PG11	PG11	M16	10 pcs.	Metal (ML)	166-51012
CNV-M20-PG11	PG11	M20	10 pcs.	Metal (ML)	166-51013
CNV-PG9-PG11	PG11	PG9	10 pcs.	Metal (ML)	166-51014
CNV-PG13-PG11	PG11	PG13.5	10 pcs.	Metal (ML)	166-51015
CNV-PG16-PG11	PG11	PG16	10 pcs.	Metal (ML)	166-51016
CNV-PG21-PG11	PG11	PG21	10 pcs.	Metal (ML)	166-51017
CNV-M20-PG13	PG13.5	M20	10 pcs.	Metal (ML)	166-51018
CNV-PG11-PG13	PG13.5	PG11	10 pcs.	Metal (ML)	166-51019
CNV-PG16-PG13	PG13.5	PG16	10 pcs.	Metal (ML)	166-51020
CNV-PG21-PG13	PG13.5	PG21	10 pcs.	Metal (ML)	166-51021
CNV-M20-PG16	PG16	M20	10 pcs.	Metal (ML)	166-51022
CNV-PG13-PG16	PG16	PG13.5	10 pcs.	Metal (ML)	166-51023
CNV-PG21-PG16	PG16	PG21	10 pcs.	Metal (ML)	166-51024
CNV-PG29-PG16	PG16	PG29	2 pcs.	Metal (ML)	166-51025
CNV-M20-PG21	PG21	M20	10 pcs.	Metal (ML)	166-51026
CNV-M25-PG21	PG21	M25	10 pcs.	Metal (ML)	166-51027
CNV-PG16-PG21	PG21	PG16	10 pcs.	Metal (ML)	166-51028
CNV-PG29-PG21	PG21	PG29	2 pcs.	Metal (ML)	166-51029
CNV-M40-PG29	PG29	M40	1 EA	Metal (ML)	166-51030
CNV-PG21-PG29	PG29	PG21	2 pcs.	Metal (ML)	166-51031
CNV-PG36-PG29	PG29	PG36	2 pcs.	Metal (ML)	166-51032
CNV-M50-PG36	PG36	M50	1 EA	Metal (ML)	166-51033
CNV-PG29-PG36	PG36	PG29	2 pcs.	Metal (ML)	166-51034
CNV-PG42-PG36	PG36	PG42	2 pcs.	Metal (ML)	166-51035

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



HelaGuard Accessories

- PAEC End Caps for Corrugated Conduits

Features and Benefits

- Fast fit
- Snaps over end of conduit when not terminated with fitting
- Provides smooth entry to prevent damage to cables
- UV resistant (black)



HelaGuard PAEC End Cap.

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



TYPE	Nominal Ø	Min. Bore Size	Length (L)	Outside Ø max.	Pack Cont.	Colour	Article-No.
PAEC16	16	10.5	19	18.2	10 pcs.	Black (BK)	166-50800
PAEC21	21	15.0	19	23.7	10 pcs.	Black (BK)	166-50801
PAEC28	28	20.0	22	31.2	10 pcs.	Black (BK)	166-50802
PAEC34	34	25.5	23	37.1	10 pcs.	Black (BK)	166-50803
PAEC42	42	32.0	24	45.2	10 pcs.	Black (BK)	166-50804
PAEC54	54	43.5	25	54.7	10 pcs.	Black (BK)	166-50805

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



HelaGuard Accessories

- **ConClamp Conduit Clamp**

Features and Benefits

- Holds metallic conduits and guides hacksaw for a clean cut



HelaGuard ConClamp.

TYPE	Pack Cont.	Colour	Article-No.
CONCLAMP	1 EA	Metal (ML)	166-51100

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

- **ConCutterr Conduit Cutters**

Features and Benefits

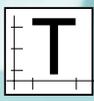
- Cutting tool for non-metallic conduits



HelaGuard ConCutter.

TYPE	Conduit Ø	Pack Cont.	Colour	Article-No.
CONCUTTER1	for non-metallic conduits up to 34	1 EA	Black (BK)	166-51101
CONCUTTER2	for non-metallic conduits up to 67	1 EA	Black (BK)	166-51102

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



HelaGuard Resistance to Chemicals

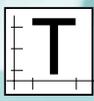
	ASTM NO. 1	ASTM NO. 2	ASTM NO. 3	Acetic acid (10%)	Acetone	Aluminium Chloride	Benzene	Carbon Tetrachloride	Chloroform	Citric acid	Copper Sulphate	Cresol	Diesel oil	Diethylamine	Ethanol	Ether	Ethylamine	Ethylene Glycol	Freon 32	Hydrochloric acid (10%)	Hydrochloric acid (30%)	Hydrogen Peroxide (30%)	Hydrogen Peroxide (60%)	Lactic acid	Lubricating oil	Methanol	
HelaGuard Non Metallic tubing																											
HG-SW	▲	▲	▲	△	▲	○	▲	▲	○	▲	△	○	▲	▲	▲	▲	▲	▲	▲	○	○	○	○	△	▲	△	
HG-LW	▲	▲	▲	△	▲	○	▲	▲	○	▲	△	○	▲	▲	▲	▲	▲	▲	▲	○	○	○	○	△	▲	△	
HG-HW	▲	▲	▲	△	▲	○	▲	▲	○	▲	△	○	▲	▲	▲	▲	▲	▲	▲	○	○	○	○	△	▲	△	
HG-FR	▲	▲	▲	△	▲	○	▲	▲	○	▲	△	○	▲	▲	▲	▲	▲	▲	▲	○	○	○	○	△	▲	△	
HG-HI	▲	▲	▲	△	▲	△	▲	▲	○	▲	△	○	▲	△	△	▲	△	▲	▲	○	○	○	○	△	▲	△	
HG-DC	▲	▲	▲	△	▲	○	▲	▲	○	▲	△	○	▲	▲	▲	▲	▲	▲	▲	○	○	○	○	△	▲	△	
HG-PP	▲	▲	△	△	▲	△	△	△	△	▲	△	○	▲	▲	▲	▲	▲	▲	▲	△	△	○	○	△	▲	△	
HelaGuard Metallic tubing																											
SC	▲	▲	▲	○	▲	○	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	○	○	○	○	○	○	▲	▲		
SSC	▲	▲	▲	▲	▲	○	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	○	○	▲	▲	▲	▲		
PCS	○	○	○	△	○	○	○	○	○	▲	▲	△	△	○	○	○	○	△	△	▲	○	▲	▲	△	△		
NCS	▲	▲	▲	△	▲	○	△	▲	○	▲	△	○	▲	▲	▲	▲	▲	▲	▲	○	○	○	○	△	▲	△	
LFHCS	△	△	△	▲	○	○	○	○	○	▲	▲	○	○	▲	○	○	○	▲	○	○	○	○	○	▲	△	○	
LTS	△	▲	▲	▲	○	○	○	△	○	▲	▲	△	▲	△	○	△	△	△	△	△	○	△	○	△	▲	○	
LTSH	▲	△	△	▲	▲	○	○	△	△	▲	▲	▲	▲	▲	▲	▲	▲	▲	○	▲	▲	△	○	△	▲	▲	
LTSUL	▲	▲	▲	▲	○	○	○	△	○	▲	▲	△	▲	△	○	△	△	△	△	△	○	△	○	△	▲	○	
PCSB	○	○	○	△	○	○	○	○	○	▲	▲	△	△	○	○	○	○	△	△	▲	○	○	○	○	△	○	
SCSB	▲	▲	▲	○	▲	○	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	○	○	○	○	○	○	▲	▲		
Spiral-reinforced PVC Conduits																											
PSR	○	○	○	△	○	△	○	△	○	▲	△	○	△	△	○	△	△	△	△	○	○	△	○	△	△	○	
PSRSC	▲	▲	▲	▲	○	○	○	△	○	▲	▲	△	▲	△	○	△	△	△	△	△	○	△	○	△	▲	○	

- ▲ Good Resistance
- △ Limited Resistance
- Poor Resistance
- ◇ Suitable with stainless steel fittings

These details are only rough guide values. They should be regarded as a material specifications and are no substitute for a suitability test. Please see our datasheets for further details.

These information are valid at 23 °C.

	Methyl Bromide	Methyl Ethyl Ketone	Nitric acid (10%)	Nitric acid (60%)	Oxalic acid	Ozone (Gas)	Paraffin oil	Petrol	Phenol	Sea water	Silver Nitrate	Skydrol®	Sodium Chloride	Sodium Hydroxide (10%)	Sodium Hydroxide (60%)	Sulphur Dioxide (Gas)	Sulphuric acid (10%)	Toluene	Transformer oil	1.1.1-Trichloroethane	Trichloroethylene	Turpentine	Vegetable oil	Vinyl Acetate	Water	White Spirit	Zinc Chloride	Page Number
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HelaGuard Thread Standards

Metric Thread

Standard thread conforming to EN60423

Thread size	External thread outside Ø (mm)	Internal thread inside Ø (mm)	Pitch (mm)
M12	12.0	10.4	1.5
M16	16.0	11.4	1.5
M20	20.0	18.4	1.5
M25	25.0	23.4	1.5
M32	32.0	30.4	1.5
M40	40.0	38.4	1.5
M50	50.0	48.5	1.5
M63	63.0	61.4	1.5
M75	75.0	73.4	1.5

PG Thread

German standard thread conforming to DIN40430

Thread size	External thread outside Ø (mm)	Internal thread inside Ø (mm)	Pitch (mm)
PG7	12.0	11.3	1.27
PG9	15.2	13.9	1.41
PG11	18.6	17.3	1.41
PG13.5	20.4	19.1	1.41
PG16	22.5	21.2	1.41
PG21	28.3	26.8	1.59
PG29	37.0	35.5	1.59
PG36	47.0	45.5	1.59
PG42	54.0	52.5	1.59
PG48	59.3	57.8	1.59



Cable Cover, Material: PA6, UL94V0

- Helawrap HHPA-V0

Helawrap is used to bundle and protect cables in the electrical industry, panel building, machine, automotive and truck manufacturing. Helawrap in 25m lengths is the time-saving solution for industrial applications. Due to its excellent flame-retardant properties, Helawrap Polyamide 6 V0 is the product of choice wherever fire protection is essential, for example in mass transit.

Helawrap in practical 2m lengths is designed for domestic and office use. It puts an end to the cable chaos associated with PCs, TVs and Hi-Fi systems.

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
- Available in several colours and sizes
- Handy applicator tool included

Helawrap made of polypropylene (PP) can be found in the Product Catalogue.



One Step to the Web!



HHPAV0 is suitable for applications requiring high abrasion and fire protection.

MATERIAL	Polyamide 6 V0 (PA6V0)
Operating Temperature	-40 °C to +90 °C, intermittent +120 °C
Flammability	UL94 V0
Specifications	CEN TS 45545-2: 2009, DIN 5510-2



TYPE	Bundle Ø max.	Colour	Reel Length	Application Tool	Article-No.
HHPAV08	9	Black (BK)	25 m	HAT8	161-63101
HHPAV016	16	Black (BK)	25 m	HAT16	161-63201
HHPAV020	21	Black (BK)	25 m	HAT20	161-63301
HHPAV025	27	Black (BK)	25 m	HAT25	161-63401
HHPAV030	32	Black (BK)	25 m	HAT30	161-63501

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



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Accessories for retaining Helawrap Open Cable Cover

- **HWClips**

Helawrap clips and mounting plates can be linked into chains to bundle, protect and fix any number of cables on industrial machines. They can also be used in wiring cabinets, particularly in the door area where movement is a requirement. Helawrap accessories are also used to manage cables in the office or home.

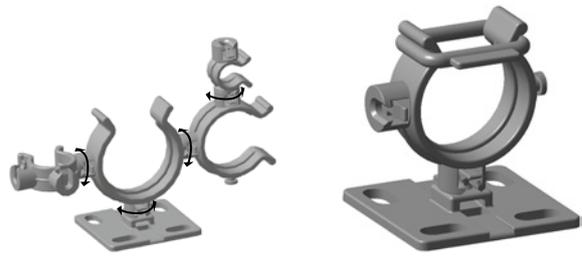
Features and Benefits

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



The Helawrap accessory set for bundling, fixing and protecting multiple cable runs.

MATERIAL	Polyamide 6.6 High Imp. Mod., Heat Stab. (PA66HIRHS)	Flexible Polyvinyl Chloride, cadmium free (PVC)
Operating Temperature	-40 °C to +105 °C	-35 °C to +85 °C
Flammability	UL94 HB	UL94 V2



Multiple clips can be joined. Clips swivel freely.

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

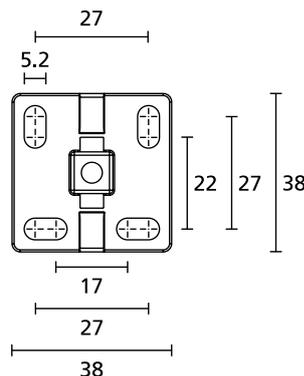
TYPE	for Helawrap size	Material	Colour	Article-No.
HWCLIP08	8	PA66HIRHS	Black (BK)	161-64002
HWCLIP16	16	PA66HIRHS	Black (BK)	161-64004
HWCLIP20	20	PA66HIRHS	Black (BK)	161-64006
HWCLIP25	25	PA66HIRHS	Black (BK)	161-64008
R1	25, 30	PVC	Black (BK)	201-20010
HWCLIP30	30	PA66HIRHS	Black (BK)	161-64010

Subject to technical changes.

- **HWBase**

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

Subject to technical changes.



Helawrap HWBase/HWBaseA



Application Tools for Helawrap Cable Cover

- **HAT Tools**

Features and Benefits

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



Applicator tools HAT 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

Subject to technical changes.

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



Polyethylene Spiral Binding for enhanced flame protection

- SBPEFR

SBPEFR spiral binding is used in areas, where fire protection is important in the automotive and electrical industry.

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

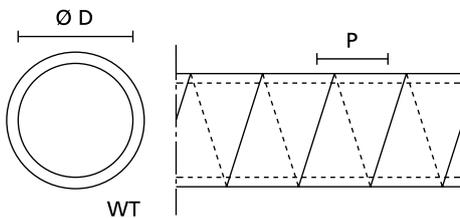


Spiral binding SBPEFR is available in a wide range of diameters and in colours black and white.

Spiral binding made of standard polyethylene can be found in the Product Catalogue.

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

RoHS



One Step to the Web!

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

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



Polyethylene Spiral Binding with UL94V0 classification

- 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

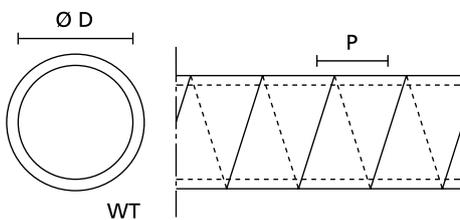
- Organises and protects cables and hoses
- Self-extinguishing according to UL94 V0
- Very good protection against abrasion
- Suitable for retro-fitting
- Cables branch out at any point
- Wide range of diameters and colours



Spiral binding SBPAV0.

Spiral binding made of standard polyamide 6 can be found in the Product Catalogue.

MATERIAL	Polyamide 6 V0 (PA6V0)
Operating Temperature	-40 °C to +90 °C, intermittent +120 °C
Flammability	UL94 V0
Specifications	CEN TS 45545-2: 2009, NF F 16-101, UL-Recognised



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

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



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



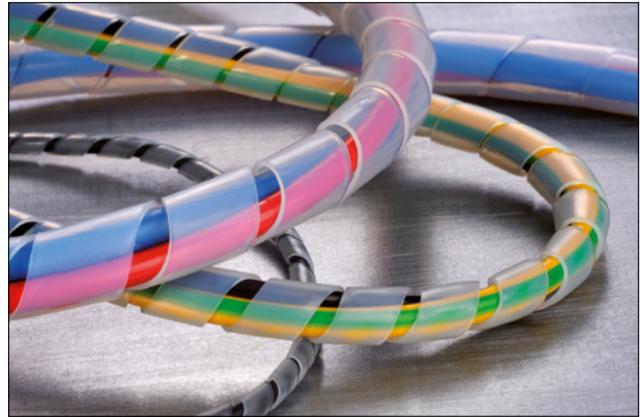
PTFE Spiral Binding for superior protection

- SBPTFE

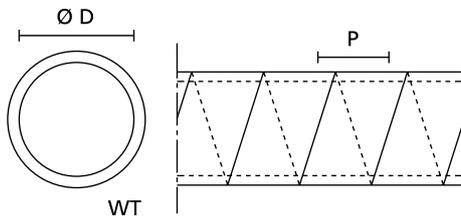
Wherever superior protection against chemical and extreme temperatures are important, the use of SBPTFE is recommended.

Features and Benefits

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



Spiral binding SBTFE - ideal for extreme conditions.

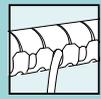


MATERIAL	Polytetrafluoroethylene (PTFE)
Operating Temperature	-60 °C to +260 °C, intermittent +350 °C
Flammability	UL94 V0

RoHS ✓

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

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



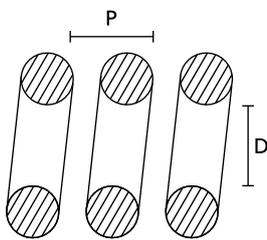
Polypropylene spiral binding for high resistance against oil, narrow pitch

- SPS

SPS spiral binding is especially suitable for the use in areas where high abrasion resistance and much larger cable diameters are needed, for example the automobile and petrochemical industry as well as in heavy plant construction.

Features and Benefits

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



SPS spiral binding (narrow pitch)



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

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

HF ✓

RoHS ✓

TYPE	Ø D	Pitch (P)	Bundle Ø max.	Length (L)	Colour	Article-No.
SPS10	10	5.0	14	1 m	Black (BK)	162-10100
SPS15	15	5.0	20	1 m	Black (BK)	162-10150
SPS20	20	5.5	25	1 m	Black (BK)	162-10200
SPS25	25	6.0	30	1 m	Black (BK)	162-10250
SPS30	30	6.5	37	1 m	Black (BK)	162-10300
SPS35	35	6.5	42	1 m	Black (BK)	162-10350
SPS40	40	7.0	48	1 m	Black (BK)	162-10400
SPS50	50	8.0	59	1 m	Black (BK)	162-10500

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



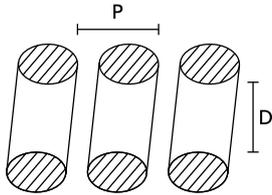
Polypropylene spiral binding for high resistance against oil, wide pitch

- SPF

Wherever high abrasion resistance and stable cable inserting are important, the use of SPF spiral binding is recommended. SPF is suitable for wind industry, plant construction and the petrochemical industry.

Features and Benefits

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



SPF spiral binding (wide pitch)



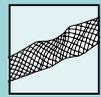
Spiral binding - extremely robust and abrasion resistant.

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



TYPE	Ø D	Pitch (P)	Bundle Ø max.	Length (L)	Colour	Article-No.
SPF10	10	10	13	1.0 m	Black (BK)	162-20100
SPF15	15	13	18	1.0 m	Black (BK)	162-20150
SPF20	20	18	23	1.0 m	Black (BK)	162-20200
SPF25	25	19	29	1.0 m	Black (BK)	162-20250
SPF30	30	20	34	1.0 m	Black (BK)	162-20300
SPF35	35	20	39	1.0 m	Black (BK)	162-20350
SPF40	40	20	45	1.0 m	Black (BK)	162-20400
SPF50	50	22	56	1.0 m	Black (BK)	162-20500

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



Standard polyester braided sleeving

- **Helagaine HEGP**

Helagaine HEGP braided sleeving is used in the automotive industry and in machine construction. It is also used for smaller electrical appliances to avoid pockets of high temperature. HEGP fulfils the strict requirement of DIN5510-2 and is therefore also optimal for railway applications.

Features and Benefits

- Made of sturdy polyester
- Highly flexible
- High abrasion resistance
- Very high surface coverage
- 13 sizes for diameters from 1 - 66 mm for an optimal fit



Helagaine HEGP braided sleeving.

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 382.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C, intermittent +220 °C
Melting Point	+250 °C
Flammability	UL94 V2, FMVSS 302
Specifications	DIN 5510-2

HF ✓

RoHS ✓

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

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Standard polyester braided sleeving, expansion rate: 3:1

- Helagain HEGPX

Helagain HEGP and HEGPX braided sleeving is used in the automobile sector and in machine construction. It is also used for smaller electrical appliances to avoid pockets of high temperature. HEGP and HEGPX can be supplied in pre-cut lengths on request.

Features and Benefits

- Made of sturdy polyester
- Highly flexible
- Expansion rate of 3:1
- Easy to apply over irregular shapes
- Good abrasion resistance
- 7 sizes for diameters from 3 - 70 mm for an optimal fit



Helagain HEGPL Braided Sleeving.

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 382.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C, intermittent +220 °C
Melting Point	+250 °C
Flammability	UL94 V2, FMVSS 302
Specifications	DIN 5510-2, UL-Recognised

HF ✓

RoHS ✓

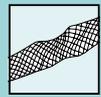
TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HEGPX06	3	10	Black (BK)	200 m	170-00060
HEGPX09	5	16	Black (BK)	100 m	170-00090
HEGPX12	6	19	Black (BK)	100 m	170-00120
HEGPX20	13	32	Black (BK)	100 m	170-00200
HEGPX30	19	45	Black (BK)	50 m	170-00300
HEGPX40	32	70	Black (BK)	50 m	170-00400

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Polyester braided sleeving, UL94V0 classification

- Helagaine HEGPV0

HEGPV0 braided sleeveings are used wherever fire protection is important such as control cabinets, robotics and automatic equipment. Also HEGPV0 is suitable for railway vehicle manufacturing as it conforms to the strict requirements of DIN5510-2 and NFF-16 101.

Features and Benefits

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



Helagaine HEGPV0 braided sleeving.

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 382.

MATERIAL	Polyester (PBT)
Operating Temperature	-50 °C to +150 °C, intermittent +200 °C
Melting Point	+225 °C
Flammability	UL94 V0, FMVSS 302
Specifications	CEN TS 45545-2: 2009, DIN 5510-2, NF F 16-101

RoHS ✓

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

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.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Polyester braided sleeving, expansion rate: 3:1, UL94V0 classification

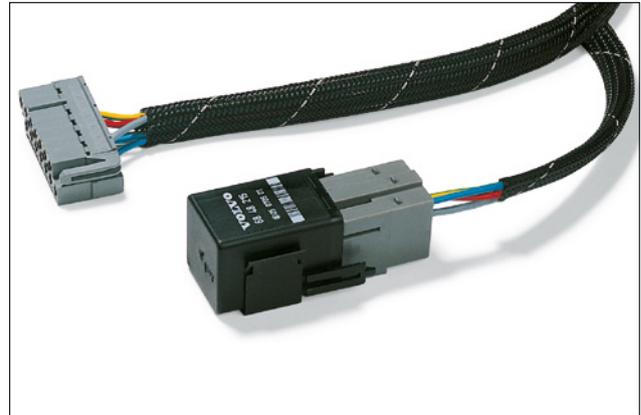
- Helagaine HEGPV0X

Helagaine HEGPV0X is especially suitable for areas wherever fire protection is important as well as a higher expansion ratio of the braided sleeve. Helagaine HEGPV0X offers superior cable protection for machine tools, robotics and automatic equipment. Helagaine HEGPV0X had been successfully tested to DIN5510-2 and NF F 16-101 and can thus be used in many railway applications.

Features and Benefits

- Made of sturdy polyester
- Self-extinguishing according to UL94 V0 for enhanced fire protection
- Highly flexible
- Expansion ratio of 3:1
- Easy to apply over irregular shapes
- Good abrasion resistance

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 382.



Helagaine HEGPV0X braided sleeving.

MATERIAL	Polyester (PBT)
Operating Temperature	-50 °C to +150 °C, intermittent +200 °C
Melting Point	+225 °C
Flammability	UL94 V0, FMVSS 302
Specifications	DIN 5510-2, NF F 16-101, UL-Recognised

RoHS

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

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Polyamide braided sleeving for excellent abrasion resistance

- 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



Various types of Helagaine braided sleeving.

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 382.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-60 °C to +150 °C, intermittent +200 °C
Melting Point	+255 °C
Flammability	UL94 V2, FMVSS 302
Specifications	DIN 5510-2, NF F 16-101



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

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Polyester braided sleeving for reduction of vibration noise

- Helagain HEGSAS

Helagain HEGSAS is used primarily in the automotive sector and wherever vibration noise must be reduced. Helagain HEGSAS can be supplied in pre-cut lengths on request.

Features and Benefits

- Superior noise reduction
- Made of sturdy polyester
- Highly flexible
- Expansion rate of 3:1
- Easy to apply over irregular shapes due
- High surface coverage
- Excellent abrasion resistance

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 382.



Helagain HEGSAS braided sleeving.

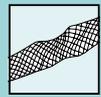
MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C, intermittent +200 °C
Melting Point	+250 °C
Flammability	FMVSS 302



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

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.



Light weight standard polyester braided sleeving

- Helagaine HEGPL

Helagaine HEGPL is used primarily in automobile interiors, motor compartments, car bodies and underfloors.

Features and Benefits

- Made of sturdy polyester
- Expansion rate of 3:1
- Easier application over irregular shapes
- Highly flexible
- Good abrasion resistance



Helagaine HEGPL braided sleeving.

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 382.

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

RoHS ✓

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

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.



NOMEX® braided sleeving

- Helagaine HEGMAN and HEGMANWO

Helagaine HEGMAN and HEGMANWO has been designed for applications that require mechanical protection at high temperatures such as aeronautic, aerospace, military, railway and shipbuilding 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



One Step to the Web!



Helagaine HEGMAN and HEGMANWO are available in various sizes.

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



TYPE	Description According to EN6049	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HEGMAN-02	EN6049-003-02-5	1	2	Green (GN)	100 m	170-02100
HEGMAN-04	EN6049-003-04-5	2	4	Green (GN)	100 m	170-02101
HEGMAN-06	EN6049-003-06-5	4	8	Green (GN)	100 m	170-02102
HEGMAN-08	EN6049-003-08-5	6	12	Green (GN)	50 m	170-02103
HEGMAN-10	EN6049-003-10-5	8	16	Green (GN)	50 m	170-02104
HEGMAN-15	EN6049-003-15-5	10	20	Green (GN)	50 m	170-02105
HEGMAN-20	EN6049-003-20-5	12	24	Green (GN)	50 m	170-02106
HEGMAN-25	EN6049-003-25-5	15	30	Green (GN)	50 m	170-02107
HEGMAN-30	EN6049-003-30-5	20	40	Green (GN)	50 m	170-02108

All dimensions in mm. Subject to technical changes.

Cuts in any lengths. NOMEX® is a registered trademark of DuPont. Minimum Order Quantity (MOQ) may differ from package content.

TYPE	Description According to EN6049	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HEGMANWO-02	EN6049-004-02-5	1	2	Green (GN)	100 m	170-02000
HEGMANWO-04	EN6049-004-04-5	2	4	Green (GN)	100 m	170-02001
HEGMANWO-06	EN6049-004-06-5	4	8	Green (GN)	100 m	170-02002
HEGMANWO-08	EN6049-004-08-5	6	12	Green (GN)	50 m	170-02003
HEGMANWO-10	EN6049-004-10-5	8	16	Green (GN)	50 m	170-02004
HEGMANWO-15	EN6049-004-15-5	10	20	Green (GN)	50 m	170-02005
HEGMANWO-20	EN6049-004-20-5	12	24	Green (GN)	50 m	170-02006
HEGMANWO-25	EN6049-004-25-5	15	30	Green (GN)	50 m	170-02007
HEGMANWO-30	EN6049-004-30-5	20	40	Green (GN)	50 m	170-02008

All dimensions in mm. Subject to technical changes.

Cuts in any lengths. NOMEX® is a registered trademark of DuPont. Minimum Order Quantity (MOQ) may differ from package content.



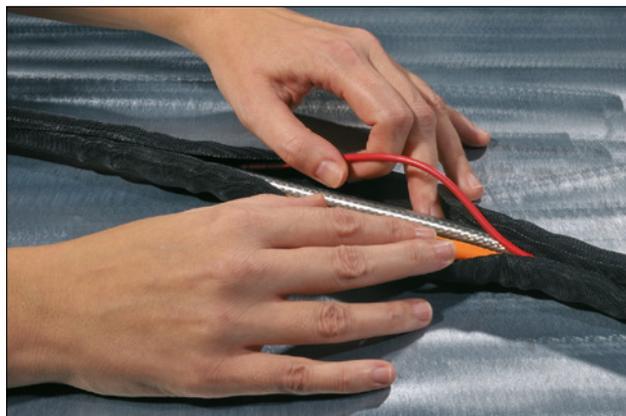
Polyester self-closing sleeving

- **Helagaine Twist-In**

Helagaine Twist-In has many applications in engineering, electronics and electrical installations. Twist-In in the practical 2m and 5m lengths, used at home and office, provide perfect cable protection for PC, TV- and HiFi-equipment.

Features and Benefits

- Self-closing sleeve made of polyester
- Very good protection against abrasion
- Ideal for retro-fitting
- Quick and easy installation and removal
- Allows to bundle for inspection, maintenance and assembly
- Small range of sizes covers a wide range of applications



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

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 382.



One Step to the Web!

MATERIAL	Polyester (PET)
Operating Temperature	-70 °C to +125 °C
Melting Point	+255 °C
Flammability	FMVSS 302, Self extinguishing



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

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



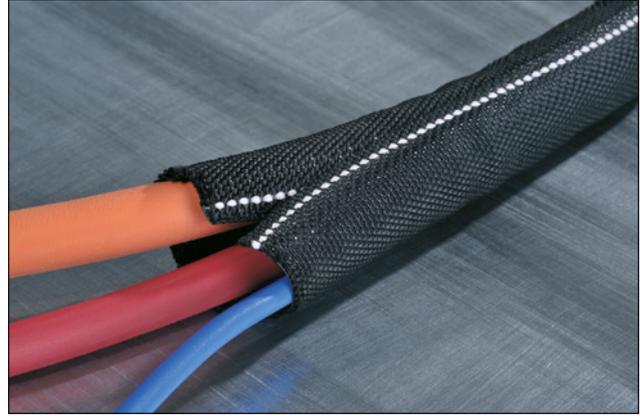
Polyester self-closing sleeving, flame-retardant

- **Helagaine Twist-In-FR**

Helagaine Twist-In-FR can be used in areas where fire protection is important, such as railway, aerospace and shipbuilding.

Features and Benefits

- Self-closing sleeve made from polyester
- Optimal fire protection
- Ideal for retro-fitting
- Very easy, quick installation and removal
- Quick and easy access to bundle for inspection, maintenance and assembly
- Small range of sizes covers a wide range of applications



Helagaine Twist-In-FR with the white identification yarn.

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 382.



One Step to the Web!

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +125 °C
Melting Point	+240 °C
Flammability	FMVSS 302, Self extinguishing
Specifications	CEN TS 45545-2: 2009, NF F 16-101



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

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



Please note! Not all products listed on this page may have this approval.
For product specific approvals please refer to the Appendix.



Re-sealable protective sleeving for post-termination cable organisation

- HELAHOOK

HELAHOOK is used in industrial machines, electrical appliances, shipbuilding, railway vehicles and in the aerospace industry. HELAHOOK is also employed in automobiles or commercial vehicles. It is the ideal solution for post-termination cable organisation and wherever repeated use is a necessity.

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 retrospective fitting and repeated use.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C
Flammability	UL94 V2, FMVSS 302
Specifications	NF F 16-101



One Step to the Web!



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

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



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



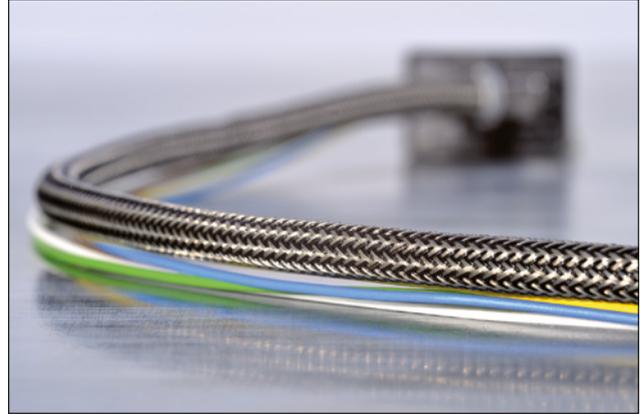
Electromagnetic protection braided sleeving

- Helagain HEGEMIP

Helagain HEGEMIP braided sleeving is used for highly sensitive electronics, such as electrical appliances and machines, radio equipment, military and automotive engineering.

Features and Benefits

- Excellent electromagnetic protection
- Extremely flexible, expandable and easy to apply
- Superior abrasion protection
- No kinks or tears, even when bending the sleeve 90°
- 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), Tin Plated copper
Operating Temperature	-40 °C to +175 °C, i ntermittent +200 °C
EMI requirements	10 KHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)
Flammability	UL94 V2, FMVSS 302
Specifications	NF F 16-101

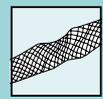


TYPE	Ø D	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIP04	4	4	6	Tin coloured and Black	21.5 g/m	100 m	173-00400
HEGEMIP06	6	5	10	Tin coloured and Black	28.5 g/m	100 m	173-00600
HEGEMIP08	8	8	11	Tin coloured and Black	26.5 g/m	100 m	173-00800
HEGEMIP10	10	8	13	Tin coloured and Black	43.5 g/m	50 m	173-01000
HEGEMIP12	12	10	15	Tin coloured and Black	48.0 g/m	50 m	173-01200
HEGEMIP14	14	12	18	Tin coloured and Black	58.0 g/m	100 m	173-01400
HEGEMIP16	16	14	20	Tin coloured and Black	72.5 g/m	100 m	173-01600
HEGEMIP18	18	16	22	Tin coloured and Black	78.6 g/m	50 m	173-01800
HEGEMIP20	20	18	25	Tin coloured and Black	100.0 g/m	50 m	173-02000

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



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Electromagnetic protection, flame-retardant protection braided sleeving

- Helagaine HEGEMIPV0

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

Features and Benefits

- Excellent electromagnetic protection
- Extremely flexible, expandable and easy to apply
- Self-extinguishing according to UL94 V0
- Superior abrasion protection
- No kinks or tears, even when bending the sleeve 90°
- Particularly suitable for applications with restricted space or requiring movement
- Inner disposable tube protects sleeve from deformation and allows for easy insertion of cables
- Fulfils the requirements of IEC CISPR25 for radio disturbances in vehicles, boats and engines



HEGEMIPV0 braided sleeving: EMI protection for enhanced flame protection.

MATERIAL	Polyester (PBT), Tin Plated copper
Operating Temperature	-40 °C to +175 °C, intermittent +200 °C
EMI requirements	10 KHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)
Flammability	UL94 V0, FMVSS 302



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

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



Electromagnetic protection braided sleeving for hybrid automobiles

• Helagaine HEGEMIP-HY

Helagaine HEGEMIP-HY provides electromagnetic protection in hybrid automobiles.

Features and Benefits

- Excellent electromagnetic protection
- Extremely flexible, expandable and easy to apply
- No kinks or ruptures even when bent at sharp angles
- Superior abrasion protection
- Special copper alloy for enhanced protection against salt spray
- Particularly suitable for applications with restricted space or requiring movement
- Inner disposable tube protects sleeve from deformation and allows for easy insertion of cables
- Fulfills 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
Operating Temperature	-40 °C to +150 °C
EMI requirements	10 KHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)
Flammability	UL94 V2, FMVSS 302

RoHS

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

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

Hot cutting tool

• HSG0

The HSG0 hand tool is used to cut braided sleeving cleanly and without fraying.

Features and Benefits

- Light and sturdy
- Heats up quickly with the press of button and cuts in seconds
- The yarn melts and fuses together
- No fraying of the sleeving



The HSG0 hot cutting tool prevents the braided sleeving from fraying.

TYPE	Weight	Colour	Article-No.
HSG0	1.15 kg	Blue (BU)	170-99001

Subject to technical changes.



Cable Protection for sharp-edged cut-out-sections

- **Flexiform Edge Protection grommet strip**

Flexiform grommet strip is used to protect cables routed through sharp-edged cut-out sections.

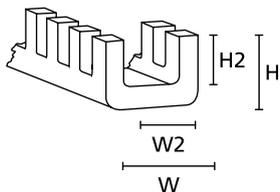
Features and Benefits

- Very flexible
- Easily and securely applied without adhesives
- Close-fitting rail for effective, orderly-looking protection



Optimal protection of cables and wires at panel edges.

Flexiform made of polyethylene and polyamide 6 can be found in the Product Catalogue.



MATERIAL	Polytetrafluoroethylene (PTFE)
Operating Temperature	-60 °C to +260 °C, (+350 °C, 200 h)
Flammability	UL94 V0
Specifications	PAN 6480-A



TYPE	Panel Thickness	Width (W)	Width (W2)	Height (H)	Height (H2)	Colour	Pack Cont.	Article-No.
G51TA	0.40 - 1.30	3.9	1.5	4.3	2.7	Natural (NA)	3 m	251-30109
G51TB	1.30 - 2.10	4.6	2.4	4.3	2.7	Natural (NA)	3 m	251-30209
G51TC	2.10 - 3.30	5.7	3.5	4.3	2.7	Natural (NA)	3 m	251-30309
G51TD	3.30 - 4.80	8.4	5.1	6.2	4.3	Natural (NA)	3 m	251-30409
G51TE	4.80 - 6.50	9.9	6.7	6.4	4.5	Natural (NA)	3 m	251-30509
G51TF	6.50 - 8.10	11.4	8.3	6.8	4.8	Natural (NA)	3 m	251-30609
G51TG	8.10 - 9.70	13.2	10.1	6.8	4.8	Natural (NA)	3 m	251-30709
G51TH	9.70 - 12.90	16.4	13.2	6.8	4.8	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.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.