

HelaGuard

Non-Metallic Conduit & Fittings



HelaGuard Non-Metallic Conduit Systems



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HelaGuard is an innovative system of non-metallic conduits, fittings and accessories that provides a highly versatile and lightweight solution for flexible cable management protection and routing needs. Available in a wide range of sizes, styles and materials, HelaGuard can address the wide array of mechanical, environmental and safety requirements needed for a project or application.

HelaGuard Non-Metallic Conduits

The self-extinguishing, halogen free HelaGuard conduits are preferred whenever conditions call for a lightweight, flexible material solution with good corrosion resistance properties. Standard and lightweight PA6 nylon conduits are widely used in OEM, electrical, and general manufacturing environments. A PA12 nylon conduit is well suited for dynamic applications that involve constant or repetitive motion — such as in industrial automation, or when exposed to UV conditions. A flame retardant PA6 nylon is also available, along with a double slit version that is ideal for MRO and retrofitting applications. Most HelaGuard nylon conduits are UL recognized components.

HelaGuard Non-Metallic Fittings

When fast installation and security is required, HelaGuard nylon fittings provide superior tensile strength with a simple snap-on and twist motion. All HelaGuard fittings with the “HG” designation achieve an ingress protection rating of IP66 against dirt and moisture. When a higher degree of protection is required, “HGL” fittings contain a special washer that fulfills IP68 classifications. Types of non-metallic fittings include straight fittings, elbows, flanges, T-Connectors, reducers and couplings. Compression fittings allow for ease of access to wires and cables for future maintenance.



Please note: For product specific approvals, please contact HellermannTyton or visit the product pages at www.hellermann.tyton.com.



Routing, Protection & Insulation

HelaGuard Non-Metallic Conduit



Applications

- Wire harness protection
- Medical equipment
- Conveyor systems
- Robotics and factory automation
- Machine construction and equipment
- Communication and security system cabling
- Industrial control panels
- Facility wiring



Key Features

- Wide range of sizes & materials
- Resistance to most chemicals
- High tensile strength
- Fast-fit design
- Liquid-tight system, IP65 up to IP69
- UV resistant materials
- Highly flexible

Benefits

- Suitable for broad range of applications
- Diverse applications
- Safe, secure assembly
- Easy installation, reduced assembly costs
- Meets industry standards
- Reliable protection against dust and water
- Suitable for outdoor applications
- Ease of use and installation

Mounting and Removing HelaGuard Non-Metallic Snap-On Fittings

HelaGuard snap-on 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 screwdriver. HelaGuard snap-on fittings can be used again and again.

To mount and remove HelaGuard snap-on 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 onto 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 screwdriver 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. Pull to remove the fitting from the end of the conduit.

To re-engage HelaGuard snap-on fittings, simply turn the capnut back to the "on" position and mount it onto the end of the conduit.

System Nomenclature

Example

Conduit: **HG-SW0500**

HG	SW	050	0
----	----	-----	---

Example

Fittings: **HGL075-S-0750**

HGL	075	S	075	0
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Box colors above refer to the following chart colors below.

Product Line	
HG	= HelaGuard Non-Metallic Conduits & Fittings IP66
HGL	= HelaGuard Non-Metallic Conduits & Fittings IP68

Conduit Description	
SW	= Standard Weight PA6 Nylon
SWSL	= Standard Weight PA6 Nylon - Slit
LW	= Lightweight PA6 Nylon
FR	= Flame Retardant, Standard Weight PA6-FR Nylon
HI	= High Impact, Standard Weight PA12 Nylon
HISL	= High Impact Standard Weight PA12 Nylon – Slit
DC	= Double Cut Conduit PA6 Nylon
PSR	= Reinforced Spiral Tubing (PVC)
LPC	= Reinforced Smooth Tubing (PVC)

Conduit Nominal Size	
038	= 3/8" (16mm)
050	= 1/2" (21mm)
075	= 3/4" (28mm)
100	= 1" (34mm)
125	= 1-1/4" (40mm)
150	= 1-1/2" (50mm)
200	= 2" (67mm)

Color	
0	= Black
8	= Gray

Fitting Style	
S	= Straight Fitting
45	= 45 Degree Elbow
90	= 90 Degree Elbow
T	= T-Connector
SFL	= Straight Flange Fitting
90FL	= 90 Degree Flange
45FL	= 45 Degree Flange
SM	= Straight External Nickel Plated Brass Metric Thread
90M	= 90 Degree Elbow External Nickel Plated Brass Metric Thread
45M	= 45 Degree Elbow External Nickel Plated Brass Metric Thread
SF	= Straight Internal Nickel Plated Brass Metric Thread
90F	= 90 Degree Elbow Internal Nickel Plated Brass Metric Thread
45F	= 45 Degree Elbow Internal Nickel Plated Brass Metric Thread
PSR	= 2 Piece Nylon Compression Fitting
LPC-S	= Metallic Compression Fitting for LPC Tubing NPT Thread

Fitting Size / Type	
038	= 3/8" NPT Thread
050	= 1/2" NPT Thread
075	= 3/4" NPT Thread
100	= 1" NPT Thread
125	= 1-1/4" NPT Thread
150	= 1-1/2" NPT Thread
200	= 2" NPT Thread
M16	= 16mm Metric Thread
M20	= 20mm Metric Thread
M25	= 25mm Metric Thread
M32	= 32mm Metric Thread
M40	= 40mm Metric Thread
M50	= 50mm Metric Thread

HelaGuard Non-Metallic Conduit Guide

- Lightweight and flexible, with good impact, vibration and chemical resistance
- Slit options allow for easy installation and maintenance
- Corrugated conduit and smooth tubing options
- Non-slit allows for liquid-tight ingress protection when paired with IP rated fittings
- UV resistant and flame retardant options available

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Routing, Protection & Insulation

HelaGuard Non-Metallic Conduit

Conduit Application Overview

Conduit System	HG-SW PA6 corrugated, standard weight	HG-LW PA6 corrugated, lightweight	HG-FR flame retardant PA6 corrugated, standard weight	HG-HI PA12 corrugated, standard weight	HG-DC PA6 corrugated, double slit	PSR smooth bore, helically formed PVC, spiral reinforced	LPC spiral reinforced tubing, smooth surface
Page	11	12	13	14	15	34	35
IP rating available	IP66, IP67, IP68, IP69	IP66, IP67, IP68, IP69	IP66, IP67, IP68, IP69	IP66, IP67, IP68, IP69	IP40	IP65	IP67, IP68
Compression strength kg/100mm, 21mm size	75	60	75	45	60	60	120
Pull-off strength kg, 21mm size	40	30	40	30	15	25	70
High fatigue life	Yes	Yes	Yes	Yes		Yes	Yes
Temperature range	-40°C to +120°C	-40°C to +120°C	-40°C to +120°C	-50°C to +110°C	-50°C to +110°C	-5°C to +70°C	-5°C to +70°C
Flexible	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Low fire hazard	Yes		Yes	Yes			
Halogen free	Yes	Yes	Yes	Yes	Yes		
Flammability Rating	UL94-V2	Self-extinguishing	UL94-V0	Self-extinguishing	UL94-V2	Self-extinguishing	Self-extinguishing
High abrasion resistance	Yes		Yes	Yes	Yes	Yes	Yes
High UV resistance (black)	Yes		Yes	Yes		Yes	Yes



Please note: For product specific approvals, please contact HellermannTyton.

Routing, Protection & Insulation

HelaGuard Non-Metallic Conduit

Standard Weight Nylon Conduit (Slit & Non-Slit)

HG-SW & HG-SWSL Series, PA6

A standard weight corrugated conduit made of PA6 nylon that offers flexible abrasion protection for wire and cable bundles. Easy to cut and use, the material is highly resistant to solvents and oils. Combine with HelaGuard non-metallic fittings for IP66 rating or greater protection against water, wind and dirt.

Features and Benefits

- Material is easy to use and cut; reduces installation time and labor costs.
- Flexible, abrasion resistant and durable for a variety of applications.
- Good impact strength; recovers quickly if crushed.
- UV resistant; suitable for use in outdoor applications.
- Offered in fine or coarse corrugated pitch.
- Offered with or without slit; slit options offer easy access during installation and maintenance.

HF ✓

RoHS ✓



HelaGuard Standard Weight for industrial applications.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40°F to +248°F (-40°C to +120°C)
Operating Temperature Moving	-4°F to +212°F (-20°C to +100°C)
Flammability	UL94 V2

PART NO.	Nominal Size (Ø)		Pitch	Type	Outside Diameter Ø (OD)		Inside Diameter Ø (ID)		Inside Bend Radius		Color	Package Quantity per Reel	
	in.	(mm)			in.	(mm)	in.	(mm)	in.	(mm)		ft	(m)
Non-slit Conduit													
166-90284	1/4	(10)	F	HG-SW0250	0.39	(10)	0.248	(6.3)	0.59	(15)	Black	100	(30.5)
166-90287	1/4	(10)	F	HG-SW0250	0.39	(10)	0.248	(6.3)	0.59	(15)	Black	164	(50)
166-90286	5/16	(13)	F	HG-SW0310	0.51	(13)	0.39	(9.8)	0.99	(25)	Black	100	(30.5)
166-90288	5/16	(13)	F	HG-SW0310	0.51	(13)	0.39	(9.8)	0.99	(25)	Black	164	(50)
166-90190	3/8	(16)	F	HG-SW0380	0.63	(15.8)	0.47	(11.8)	1.38	(35)	Black	100	(30.5)
166-90191	1/2	(21)	C	HG-SW0500	0.84	(21.2)	0.63	(16.0)	1.78	(45)	Black	100	(30.5)
166-90192	3/4	(28)	C	HG-SW0750	1.13	(28.5)	0.85	(21.7)	1.97	(50)	Black	100	(30.5)
166-90193	1	(34)	C	HG-SW1000	1.36	(34.5)	1.11	(28.1)	2.36	(60)	Black	50	(15.2)
166-90194	1.25	(42)	C	HG-SW1250	1.68	(42.5)	1.4	(35.5)	2.76	(70)	Black	50	(15.2)
166-90195	1.50	(54)	C	HG-SW1500	2.15	(54.5)	1.86	(47.2)	3.15	(80)	Black	50	(15.2)
166-90463	2.0	(67)	C	HG-SW2000	2.65	(67.2)	2.22	(56.3)	5.12	(130)	Black	25	(7.6)
166-90283	1/4	(10)	F	HG-SW0258	0.39	(10)	0.248	(6.3)	0.59	(15)	Gray	100	(30.5)
166-90285	5/16	(13)	F	HG-SW0318	0.51	(13)	0.39	(9.8)	0.99	(25)	Gray	100	(30.5)
166-90276	3/8	(16)	F	HG-SW0388	0.63	(15.8)	0.47	(11.8)	1.38	(35)	Gray	100	(30.5)
166-90277	1/2	(21)	F	HG-SW0508	0.84	(21.2)	0.66	(16.7)	1.78	(45)	Gray	100	(30.5)
166-90278	3/4	(28)	F	HG-SW0758	1.13	(28.5)	0.9	(22.8)	1.97	(50)	Gray	100	(30.5)
166-90279	1	(34)	C	HG-SW1008	1.36	(34.5)	1.11	(28.1)	2.36	(60)	Gray	50	(15.2)
166-90280	1.25	(42)	C	HG-SW1258	1.68	(42.5)	1.4	(35.5)	2.76	(70)	Gray	50	(15.2)
166-90281	1.50	(54)	C	HG-SW1508	2.15	(54.5)	1.86	(47.2)	3.15	(80)	Gray	50	(15.2)
Slit Conduit													
166-90270	3/8	(16)	F	HG-SWSL0380	0.63	(15.8)	0.47	(11.8)	1.38	(35)	Black	100	(30.5)
166-90271	1/2	(21)	F	HG-SWSL0500	0.84	(21.2)	0.66	(16.7)	1.78	(45)	Black	100	(30.5)
166-90272	3/4	(28)	F	HG-SWSL0750	1.13	(28.5)	0.9	(22.8)	1.97	(50)	Black	100	(30.5)
166-90273	1	(34)	C	HG-SWSL1000	1.36	(34.5)	1.11	(28.1)	2.36	(60)	Black	50	(15.2)
166-90274	1.25	(42)	C	HG-SWSL1250	1.68	(42.5)	1.4	(35.5)	2.76	(70)	Black	50	(15.2)
166-90275	1.50	(54)	C	HG-SWSL1500	2.15	(54.5)	1.86	(47.2)	3.15	(80)	Black	50	(15.2)

Use Part No. for ordering and Type for specification purposes.



Please note: For product specific approvals, please contact HellermannTyton.



21mm through 54mm non-slit sizes

Routing, Protection & Insulation

HelaGuard Non-Metallic Conduit

Lightweight Nylon Conduit

HG-LW Series, PA6

Lightweight nylon corrugated conduit provides high flexibility and good mechanical protection of wire and cable bundles, especially useful in smaller bend radius tight-fit applications. PA6 material offers high resistance to oils and solvents, along with good abrasion protection. Combine with HelaGuard non-metallic fittings for IP66 rating or greater protection against water, wind and dirt.

Features and Benefits

- Lightweight and highly flexible for use in tight bend and fit applications.
- Easy to use and cut; reduces installation time and labor costs.
- Good abrasion resistance and impact strength; recovers quickly if crushed.
- Offered in fine or coarse corrugated pitch.



HelaGuard Lightweight is very flexible; ideal for use in moving applications.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40°F to +248°F (-40°C to +120°C)
Operating Temperature Moving	-4°F to +212°F (-20°C to +100°C)
Flammability	Self-extinguishing according to EN IEC 61386



PART NO.	Nominal Size (Ø)		Pitch	Type	Outside Diameter Ø (OD)		Inside Diameter Ø (ID)		Inside Bend Radius		Color	Package Quantity per Reel	
	in.	(mm)			in.	(mm)	in.	(mm)	in.	(mm)		ft	(m)
166-90452	1/4	(10)	F	HG-LW0250	0.39	(10)	0.26	(6.5)	0.59	(15)	Black	200	(61.0)
166-90196	3/8	(16.0)	F	HG-LW0380	0.63	(15.8)	0.46	(11.8)	1.38	(35)	Black	100	(30.5)
166-90197	1/2	(21.0)	F	HG-LW0500	0.84	(21.2)	0.66	(16.7)	1.58	(40)	Black	100	(30.5)
166-90198	3/4	(28.0)	F	HG-LW0750	1.13	(28.5)	0.91	(23.0)	1.78	(45)	Black	100	(30.5)
166-90199	1	(34.0)	C	HG-LW1000	1.36	(34.5)	1.11	(28.1)	2.17	(55)	Black	50	(15.2)
166-90200	1-1/4	(42.0)	C	HG-LW1250	1.68	(42.5)	1.40	(35.5)	2.56	(65)	Black	50	(15.2)
166-90201	1-1/2	(54.0)	C	HG-LW1500	2.15	(54.5)	1.86	(47.2)	3.15	(80)	Black	50	(15.2)
166-90465	2.0	(67)	C	HG-LW2000	2.65	(67.2)	2.23	(56.5)	10.7	(110)	Black	25	(7.6)

Use Part No. for ordering and Type for specification purposes.



Please note: For product specific approvals, please contact HellermannTyton.

Flame Retardant Standard Weight Nylon Conduit

HG-FR Series, PA6-FR

A standard weight corrugated conduit made of a flame retardant material for use in applications in which high fire protection and low flammability are primary requirements. Easy to cut and use, the material is highly resistant to solvents and oils. Combine with HelaGuard non-metallic fittings for IP66 rating or greater protection against water, wind and dirt.

Features and Benefits

- Flame retardant material; meets low flammability, smoke and toxicity ratings.
- Easy to use and cut; reduces installation time and labor costs.
- Flexible, abrasion resistant and durable for a variety of applications.
- Good impact strength; recovers quickly if crushed.
- Rated UL94 V0.
- UV resistant; suitable for use in outdoor applications.
- Offered in fine or coarse corrugated pitch.



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

MATERIAL	Polyamide 6, Flame retardant (PA6-FR)
Operating Temperature	-40°F to +248°F (-40°C to +120°C)
Operating Temperature Moving	-4°F to +212°F (-20°C to +100°C)
Flammability	UL94 V0



PART NO.	Nominal Size (Ø)		Pitch	Type	Outside Diameter Ø (OD)		Inside Diameter Ø (ID)		Inside Bend Radius		Color	Package Quantity per Reel
	in.	(mm)			in.	(mm)	in.	(mm)	in.	(mm)		ft (m)
166-90202	3/8	(16.0)	F (Fine)	HG-FR0380	0.63	(15.8)	0.47	(11.8)	1.38	(35.0)	Black	100 (30.5)
166-90203	1/2	(21.0)	F (Fine)	HG-FR0500	0.84	(21.2)	0.66	(16.7)	1.77	(45.0)	Black	100 (30.5)
166-90204	3/4	(28.0)	C (Coarse)	HG-FR0750	1.13	(28.5)	0.86	(21.7)	1.97	(50.0)	Black	100 (30.5)
166-90205	1	(34.0)	C (Coarse)	HG-FR1000	1.36	(34.5)	1.11	(28.1)	2.36	(60.0)	Black	50 (15.2)
166-90206	1-1/4	(42.0)	C (Coarse)	HG-FR1250	1.68	(42.5)	1.40	(35.5)	2.76	(70.0)	Black	50 (15.2)
166-90207	1-1/2	(54.0)	C (Coarse)	HG-FR1500	2.15	(54.5)	1.86	(47.2)	3.15	(80.0)	Black	50 (15.2)

Use Part No. for ordering and Type for specification purposes.



Please note: For product specific approvals, please contact HellermannTyton.

Routing, Protection & Insulation

HelaGuard Non-Metallic Conduit

High Impact Standard Weight Nylon Conduit (Slit & Non-Slit)

HG-HI & HG-HISL Series, PA12

A standard weight corrugated conduit made of PA12 nylon that offers superior impact resistance, making it ideal for protecting wire and cable bundles in conditions with continual movement or bending. This material is highly resistant to UV light, solvents and oils. Combine with HelaGuard non-metallic fittings to achieve IP66 or greater protection against water, wind and dirt.

Features and Benefits

- Very high impact strength; recovers completely if crushed and provides excellent fatigue life.
- Highly UV resistant; suitable for use in outdoor applications.
- Offered in fine or coarse corrugated pitch.
- Offered with or without slit; slit options offer easy access during installation and maintenance.



High Impact HelaGuard is ideal for robotics and industrial automation.

MATERIAL	Polyamide 12 (PA12)
Operating Temperature	-58°F to +230°F (-50°C to +110°C)
Flammability	Self-extinguishing according to EN IEC 61386



PART NO.	Nominal Size (Ø)		Pitch	Type	Outside Diameter Ø (OD)		Inside Diameter Ø (ID)		Inside Bend Radius		Color	Package Quantity per Reel	
	in.	(mm)			in.	(mm)	in.	(mm)	in.	(mm)		ft	(m)
Non-slit Conduit													
166-90282	5/16	(13)	F	HG-HI0310	0.51	(13)	0.39	(9.8)	0.99	(25)	Black	100	(30.5)
166-90208	3/8	(16.0)	F	HG-HI0380	0.63	(15.8)	0.47	(11.8)	1.19	(30)	Black	100	(30.5)
166-90209	1/2	(21.0)	F	HG-HI0500	0.84	(21.2)	0.66	(16.7)	1.38	(35)	Black	100	(30.5)
166-90210	3/4	(28.0)	C	HG-HI0750	1.13	(28.5)	0.86	(21.7)	1.78	(45)	Black	100	(30.5)
166-90211	1	(34.0)	C	HG-HI1000	1.36	(34.5)	1.11	(28.1)	2.17	(55)	Black	50	(15.2)
166-90212	1-1/4	(42.0)	C	HG-HI1250	1.68	(42.5)	1.4	(35.5)	2.36	(60)	Black	50	(15.2)
166-90213	1-1/2	(54.0)	C	HG-HI1500	2.15	(54.5)	1.86	(47.2)	2.76	(70)	Black	50	(15.2)
166-90464	2.0	(67)	C	HG-HI2000	2.65	(67.2)	2.22	(56.3)	4.72	(120)	Black	25	(7.6)
Slit Conduit													
166-90264	3/8	(16.0)	F	HG-HISL0380	0.63	(15.8)	0.47	(11.8)	1.19	(30)	Black	100	(30.5)
166-90265	1/2	(21.0)	F	HG-HISL0500	0.84	(21.2)	0.66	(16.7)	1.38	(35)	Black	100	(30.5)
166-90266	3/4	(28.0)	C	HG-HISL0750	1.13	(28.5)	0.86	(21.7)	1.78	(45)	Black	100	(30.5)
166-90267	1	(34.0)	C	HG-HISL1000	1.36	(34.5)	1.11	(28.1)	2.17	(55)	Black	50	(15.2)
166-90268	1-1/4	(42.0)	C	HG-HISL1250	1.68	(42.5)	1.4	(35.5)	2.36	(60)	Black	50	(15.2)
166-90269	1-1/2	(54.0)	C	HG-HISL1500	2.15	(54.5)	1.86	(47.2)	2.76	(70)	Black	50	(15.2)

Use Part No. for ordering and Type for specification purposes.



Please note: For product specific approvals, please contact HellermannTyton.

Standard Weight Double Slit Nylon Conduit

HG-DC Series, PA6

A standard weight corrugated conduit with two slit openings that eases installation and maintenance of wire and cable bundles. The interlocking construction is excellent for retrofitting projects. PA6 material is highly resistant to solvents and oils, and offers UV and abrasion resistance.

Features and Benefits

- Double slit opening offers easy access during installation and maintenance.
- Material is easy to use and cut; reduces installation time and labor costs.
- Flexible, abrasion resistant and durable for a variety of applications.
- Good impact strength; recovers quickly if crushed.
- UV resistant; suitable for use in outdoor applications.
- Offered in fine or coarse corrugated pitch.



Double Slit HelaGuard allows for ease in retrofitting.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-40°F to +248°F (-40°C to +120°C)
Flammability	Self-extinguishing according to EN IEC 61386



PART NO.	Nominal Size (Ø)		Pitch	Type	Outside Diameter Ø (OD)		Inside Diameter Ø (ID)		Inside Bend Radius		Color	Package Quantity per Reel	
	in.	(mm)			in.	(mm)	in.	(mm)	in.	(mm)		ft	(m)
166-11808	3/8	(16.0)	F (Fine)	HG-DC0380	0.63	(15.8)	0.41	(10.3)	3.94	(100.0)	Black	164	(50)
166-11809	1/2	(21.0)	F (Fine)	HG-DC0500	0.84	(21.2)	0.55	(13.9)	4.73	(120.0)	Black	164	(50)
166-11810	3/4	(28.0)	C (Coarse)	HG-DC0750	1.13	(28.5)	0.81	(20.5)	6.70	(170.0)	Black	164	(50)
166-11811	1	(34.0)	C (Coarse)	HG-DC1000	1.36	(34.5)	1.05	(26.6)	7.09	(180.0)	Black	82	(25)
166-11812	1-1/4	(42.0)	C (Coarse)	HG-DC1250	1.68	(42.5)	1.26	(32.0)	7.88	(200.0)	Black	82	(25)
166-11813	1-1/2	(54.0)	C (Coarse)	HG-DC1500	2.15	(54.5)	1.70	(43.0)	9.45	(240.0)	Black	82	(25)

Use Part No. for ordering and Type for specification purposes.



Please note: For product specific approvals, please contact HellermannTyton.

Routing, Protection & Insulation

HelaGuard Non-Metallic Fittings

- High tensile strength due to all-around teeth design
- Simple construction for ease of installation
- NPT thread patterns on all-nylon fittings
- Metric thread patterns on nylon/brass fittings

- Vibration tested for secure installations
- Snap-on and compression fitting options
- Snap-on fittings work with corrugated conduits

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SNAP-ON

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Routing, Protection & Insulation

HelaGuard Non-Metallic Fittings

Straight External NPT Thread Fittings

HG-S & HGL-S Series

Straight fitting features a snap-on design that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- External NPT thread provides a secure connection.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- All-around “teeth” attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-S Straight



HGL-S Straight with conduit seal

PART NO.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Pkg Qty
	in.	(mm)		in.	(mm)		
IP66							
166-90103	3/8	(16)	HG038-S-0380	0.43	(11.0)	Black	10
166-90305	3/8	(16)	HG038-S-0500	0.55	(14.0)	Black	10
166-90104	1/2	(21)	HG050-S-0500	0.57	(14.5)	Black	10
166-90105	3/4	(28)	HG075-S-0750	0.76	(19.3)	Black	10
166-90106	1	(34)	HG100-S-1000	1.04	(26.5)	Black	10
166-90107	1.25	(42)	HG125-S-1250	1.28	(32.5)	Black	2
166-90306	1.25	(42)	HG125-S-1500	1.65	(42.0)	Black	2
166-90108	1.50	(54)	HG150-S-1500	1.65	(42.0)	Black	2
166-90307	1.5	(54)	HG150-S-2000	2.09	(53.0)	Black	1
166-90308	2.0	(67)	HG200-S-2000	2.2	(56.0)	Black	1
IP68							
166-90118	3/8	(16)	HGL038-S-0380	0.43	(11.0)	Black	10
166-90455	3/8	(16)	HGL038-S-0500	0.57	(14.5)	Black	10
166-90119	1/2	(21)	HGL050-S-0500	0.57	(14.5)	Black	10
166-90120	3/4	(28)	HGL075-S-0750	0.76	(19.3)	Black	10
166-90121	1	(34)	HGL100-S-1000	1.04	(26.5)	Black	10
166-90122	1.25	(42)	HGL125-S-1250	1.28	(32.5)	Black	2
166-90123	1.50	(54)	HGL150-S-1500	1.65	(42.0)	Black	2

Use Part No. for ordering and Type for specification purposes.
Locknuts for NPT threads sold separately. See page 39.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



i Fittings with metric threads available on request. Please contact us!



Please note: For product specific approvals, please contact HellermannTyton.

90 Degree Elbow External NPT Thread Fittings

HG-90 & HGL-90 Series

Elbow fitting features a snap-on design that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- External NPT thread provides a secure connection.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- Elbow features a smooth, swept bore to ease cable installation.
- All-around “teeth” attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-90 90° Elbow



HGL-90 90° Elbow with conduit seal

PART NO.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Pkg Qty
	in.	(mm)		in.	(mm)		pk
IP66							
166-90332	3/8	(16)	HG038-90-0500	0.55	(14)	Black	10
166-90098	1/2	(21)	HG050-90-0500	0.55	(14.0)	Black	10
166-90099	3/4	(28)	HG075-90-0750	0.75	(19.0)	Black	10
166-90100	1	(34)	HG100-90-1000	0.96	(24.5)	Black	10
166-90101	1.25	(42)	HG125-90-1250	1.28	(32.5)	Black	2
166-90333	1.25	(42)	HG125-90-1500	1.54	(39.0)	Black	2
166-90102	1.50	(54)	HG150-90-1500	1.54	(39.0)	Black	2
166-90466	2.0	(67)	HG200-90-2000	1.95	(49.5)	Black	1
IP68							
166-90454	3/8	(16)	HGL038-90-0500	0.55	(14)	Black	10
166-90113	1/2	(21)	HGL050-90-0500	0.55	(14.0)	Black	10
166-90114	3/4	(28)	HGL075-90-0750	0.75	(19.0)	Black	10
166-90115	1	(34)	HGL100-90-1000	0.96	(24.5)	Black	10
166-90116	1.25	(42)	HGL125-90-1250	1.28	(32.5)	Black	2
166-90117	1.50	(54)	HGL150-90-1500	1.54	(39.0)	Black	2

Use Part No. for ordering and Type for specification purposes.
Locknuts for NPT threads sold separately. See page 39.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



i Fittings with metric threads available on request. Please contact us!



Please note: For product specific approvals, please contact HellermannTyton.

Routing, Protection & Insulation

HelaGuard Non-Metallic Fittings

45 Degree Elbow External NPT Thread Fittings

HG-45 & HGL-45 Series

Elbow fitting features a snap-on design that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- External NPT thread provides a secure connection.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- Elbow features a smooth, swept bore to ease cable installation.
- All-around “teeth” attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-45 45° Elbow



HGL-45 45° Elbow with conduit seal

PART NO.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Pkg Qty
	in.	(mm)		in.	(mm)		pk
IP66							
166-90331	3/8	(16)	HG038-45-0500	0.55	(14)	Black	10
166-90094	1/2	(21)	HG050-45-0500	0.55	(14.0)	Black	10
166-90095	3/4	(28)	HG075-45-0750	0.75	(19.0)	Black	10
166-90096	1	(34)	HG100-45-1000	0.96	(24.5)	Black	10
166-90097	1.50	(54)	HG150-45-1500	1.54	(39.0)	Black	2
IP68							
166-90109	1/2	(21)	HGL050-45-0500	0.55	(15.0)	Black	10
166-90110	3/4	(28)	HGL075-45-0750	0.75	(19.0)	Black	10
166-90111	1	(34)	HGL100-45-1000	0.96	(25.0)	Black	10
166-90112	1.50	(54)	HGL150-45-1500	1.54	(39.0)	Black	2

Use Part No. for ordering and Type for specification purposes.
Locknuts for NPT threads sold separately. See page 39.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



i Fittings with metric threads available on request. Please contact us!



Please note: For product specific approvals, please contact HellermannTyton.

Straight Brass Swivel External Metric Thread Fittings

HG-SM & HGL-SM Series

Straight fitting features a snap-on design and a nickel-plated brass thread that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- External nickel-plated brass metric thread provides a secure connection.
- Swivel feature minimizes cable twisting, providing strain relief.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- All-around “teeth” attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-SM Straight Swivel External Thread



HGL-SM Straight Swivel External Thread with conduit seal

PART NO.	Nominal Size (Ø)		Type	Thread Size	Bore Hole (Ø)		Color	Pkg Qty (pk)
	in.	(mm)			in.	(mm)		
IP66								
166-90022	3/8	(16.0)	HG038-SM-M16	M16	0.43	(11.0)	Black	10
166-90023	1/2	(21.0)	HG050-SM-0500	M20	0.57	(14.5)	Black	10
166-90024	3/4	(28.0)	HG075-SM-M25	M25	0.77	(19.5)	Black	10
166-90025	1	(34.0)	HG100-SM-M32	M32	1.04	(26.5)	Black	10
166-90026	1-1/4	(42.0)	HG125-SM-M40	M40	1.28	(32.5)	Black	2
166-90027	1-1/2	(54.0)	HG150-SM-M50	M50	1.65	(42.0)	Black	2
IP68								
166-90028	3/8	(16.0)	HGL038-SM-M16	M16	0.43	(11.0)	Black	10
166-90029	1/2	(21.0)	HGL050-SM-M20	M20	0.57	(14.5)	Black	10
166-90030	3/4	(28.0)	HGL075-SM-M25	M25	0.77	(19.5)	Black	10
166-90031	1	(34.0)	HGL100-SM-M32	M32	1.04	(26.5)	Black	10
166-90032	1-1/4	(42.0)	HGL125-SM-M40	M40	1.28	(32.5)	Black	2
166-90033	1-1/2	(54.0)	HGL150-SM-M50	M50	1.65	(42.0)	Black	2

Use Part No. for ordering and Type for specification purposes.
Locknuts for NPT threads sold separately. See page 39.

MATERIAL	Polyamide 6.6 (PA66); Nickel Plated Brass (NPB)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



Routing, Protection & Insulation

HelaGuard Non-Metallic Fittings

90 Degree Elbow Brass Swivel External Metric Thread Fittings

HG-90M & HGL-90M Series

Elbow fitting features a snap-on design and a nickel-plated brass metric thread that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- External nickel-plated brass metric thread provides a secure connection.
- Swivel feature minimizes cable twisting, providing strain relief.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- Elbow features a smooth, swept bore to ease cable installation.
- All-around “teeth” attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-90M 90° Elbow Swivel External Thread



HGL-90M 90° Elbow Swivel External Thread with conduit seal

PART NO.	Nominal Size (Ø)		Type	Thread Size	Bore Hole (Ø)		Color	Pkg Qty (pk)
	in.	(mm)			in.	(mm)		
IP66								
166-90034	3/8	(16.0)	HG038-90M-M16	M16	0.41	(10.5)	Black	10
166-90035	1/2	(21.0)	HG050-90M-M20	M20	0.55	(14.0)	Black	10
166-90036	3/4	(28.0)	HG075-90M-M25	M25	0.75	(19.0)	Black	10
166-90037	1	(34.0)	HG100-90M-M32	M32	0.96	(24.5)	Black	10
166-90038	1-1/4	(42.0)	HG125-90M-M40	M40	1.54	(39.0)	Black	2
166-90039	1-1/2	(54.0)	HG150-90M-M50	M50	1.54	(39.0)	Black	2
IP68								
166-90040	3/8	(16.0)	HGL038-90M-M16	M16	0.41	(10.5)	Black	10
166-90041	1/2	(21.0)	HGL050-90M-M20	M20	0.55	(14.0)	Black	10
166-90042	3/4	(28.0)	HGL075-90M-M25	M25	0.75	(19.0)	Black	10
166-90043	1	(34.0)	HGL100-90M-M32	M32	0.96	(24.5)	Black	10
166-90044	1-1/4	(42.0)	HGL125-90M-M40	M40	1.54	(39.0)	Black	2
166-90045	1-1/2	(54.0)	HGL150-90M-M50	M50	1.54	(39.0)	Black	2

Use Part No. for ordering and Type for specification purposes.
Locknuts for NPT threads sold separately. See page 39.

MATERIAL	Polyamide 6.6 (PA66); Nickel Plated Brass (NPB)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



45 Degree Elbow Brass Swivel External Metric Thread Fittings

HG-45M & HGL-45M Series

Elbow fitting features a snap-on design and a nickel-plated brass metric thread that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- External nickel-plated brass metric thread provides a secure connection.
- Swivel feature minimizes cable twisting, providing strain relief.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- Elbow features a smooth, swept bore to ease cable installation.
- All-around "teeth" attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-45M 45° Elbow Swivel External Thread



HGL-45M 45° Elbow Swivel External Thread with conduit seal

PART NO.	Nominal Size (Ø)		Type	Thread Size	Bore Hole (Ø)		Color	Pkg Qty (pk)
	in.	(mm)			in.	(mm)		
IP66								
166-90046	3/8	(16.0)	HG038-45M-M16	M16	0.41	(10.5)	Black	10
166-90047	1/2	(21.0)	HG050-45M-M20	M20	0.55	(14.0)	Black	10
166-90048	3/4	(28.0)	HG075-45M-M25	M25	0.75	(19.0)	Black	10
166-90049	1	(34.0)	HG100-45M-M32	M32	0.96	(24.5)	Black	10
166-90050	1-1/4	(42.0)	HG125-45M-M40	M40	1.54	(39.0)	Black	2
166-90051	1-1/2	(54.0)	HG150-45M-M50	M50	1.54	(39.0)	Black	2
IP68								
166-90052	3/8	(16.0)	HGL038-45M-M16	M16	0.41	(10.5)	Black	10
166-90053	1/2	(21.0)	HGL050-45M-M20	M20	0.55	(14.0)	Black	10
166-90054	3/4	(28.0)	HGL075-45M-M25	M25	0.75	(19.0)	Black	10
166-90055	1	(34.0)	HGL100-45M-M32	M32	0.96	(24.5)	Black	10
166-90056	1-1/4	(42.0)	HGL125-45M-M40	M40	1.54	(39.0)	Black	2
166-90057	1-1/2	(54.0)	HGL150-45M-M50	M50	1.54	(39.0)	Black	2

Use Part No. for ordering and Type for specification purposes.
Locknuts for NPT threads sold separately. See page 39.

MATERIAL	Polyamide 6.6 (PA66); Nickel Plated Brass (NPB)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



Routing, Protection & Insulation

HelaGuard Non-Metallic Fittings

Straight Brass Swivel Internal Metric Thread Fittings

HG-SF & HGL-SF Series

Straight fitting features a snap-on design and a nickel-plated brass metric thread that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- Internal nickel-plated brass metric thread provides a secure connection.
- Swivel feature minimizes cable twisting, providing strain relief.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- All-around “teeth” attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-SF Straight Swivel Internal Thread



HGL-SF Straight Swivel Internal Thread with conduit seal

PART NO.	Nominal Size (Ø)		Type	Thread Size	Bore Hole (Ø)		Color	Pkg Qty (pk)
	in.	(mm)			in.	(mm)		
IP66								
166-90058	3/8	(16.0)	HG038-SF-M16	M16	0.43	(11.0)	Black	10
166-90059	1/2	(21.0)	HG050-SF-M20	M20	0.57	(14.5)	Black	10
166-90060	3/4	(28.0)	HG075-SF-M25	M25	0.77	(19.5)	Black	10
166-90061	1	(34.0)	HG100-SF-M32	M32	1.04	(26.5)	Black	10
166-90062	1-1/4	(42.0)	HG125-SF-M40	M40	1.28	(32.5)	Black	2
166-90063	1-1/2	(54.0)	HG150-SF-M50	M50	1.65	(42.0)	Black	2
IP68								
166-90064	3/8	(16.0)	HGL038-SF-M16	M16	0.43	(11.0)	Black	10
166-90065	1/2	(21.0)	HGL050-SF-M20	M20	0.57	(14.5)	Black	10
166-90066	3/4	(28.0)	HGL075-SF-M25	M25	0.77	(19.5)	Black	10
166-90067	1	(34.0)	HGL100-SF-M32	M32	1.04	(26.5)	Black	10
166-90068	1-1/4	(42.0)	HGL125-SF-M40	M40	1.28	(32.5)	Black	2
166-90069	1-1/2	(54.0)	HGL150-SF-M50	M50	1.65	(42.0)	Black	2

Use Part No. for ordering and Type for specification purposes.

MATERIAL	Polyamide 6.6 (PA66); Nickel Plated Brass (NPB)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



90 Degree Elbow Brass Swivel Internal Metric Thread Fittings

HG-90F & HGL-90F Series

Elbow fitting features a snap-on design and a nickel-plated brass metric thread that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- Internal nickel-plated brass metric thread provides a secure connection.
- Swivel feature minimizes cable twisting, providing strain relief.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- Elbow features a smooth, swept bore to ease cable installation.
- All-around "teeth" attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-90F 90° Elbow Swivel Internal Thread



HGL-90F 90° Elbow Swivel Internal Thread with conduit seal

PART NO.	Nominal Size (Ø)		Type	Thread Size	Bore Hole (Ø)		Color	Pkg Qty (pk)
	in.	(mm)			in.	(mm)		
IP66								
166-90070	3/8	(16.0)	HG038-90F-M16	M16	0.41	(10.5)	Black	10
166-90071	1/2	(21.0)	HG050-90F-M20	M20	0.55	(14.0)	Black	10
166-90072	3/4	(28.0)	HG075-90F-M25	M25	0.75	(19.0)	Black	10
166-90073	1	(34.0)	HG100-90F-M32	M32	0.96	(24.5)	Black	10
166-90074	1-1/4	(42.0)	HG125-90F-M40	M40	1.54	(39.0)	Black	2
166-90075	1-1/2	(54.0)	HG150-90F-M50	M50	1.54	(39.0)	Black	2
IP68								
166-90076	3/8	(16.0)	HGL038-90F-M16	M16	0.41	(10.5)	Black	10
166-90077	1/2	(21.0)	HGL050-90F-M20	M20	0.55	(14.0)	Black	10
166-90078	3/4	(28.0)	HGL075-90F-M25	M25	0.75	(19.0)	Black	10
166-90079	1	(34.0)	HGL100-90F-M32	M32	0.96	(24.5)	Black	10
166-90080	1-1/4	(42.0)	HGL125-90F-M40	M40	1.54	(39.0)	Black	2
166-90081	1-1/2	(54.0)	HGL150-90F-M50	M50	1.54	(39.0)	Black	2

Use Part No. for ordering and Type for specification purposes.

MATERIAL	Polyamide 6.6 (PA66); Nickel Plated Brass (NPB)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



Routing, Protection & Insulation

HelaGuard Non-Metallic Fittings

45 Degree Elbow Brass Swivel Internal Metric Thread Fittings

HG-45F & HGL-45F Series

Elbow fitting features a snap-on design and a nickel-plated brass metric thread that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- Internal nickel-plated brass metric thread provides a secure connection.
- Swivel feature minimizes cable twisting, providing strain relief.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- Elbow features a smooth, swept bore to ease cable installation.
- All-around “teeth” attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-45F 45° Elbow Swivel Internal Thread



HGL-45F 45° Elbow Swivel Internal Thread with conduit seal

PART NO.	Nominal Size (Ø)		Type	Thread Size	Bore Hole (Ø)		Color	Pkg Qty (pk)
	in.	(mm)			in.	(mm)		
IP66								
166-90083	1/2	(21.0)	HG050-45F-M20	M20	0.55	(14.0)	Black	10
166-90084	3/4	(28.0)	HG075-45F-M25	M25	0.75	(19.0)	Black	10
166-90085	1	(34.0)	HG100-45F-M32	M32	0.96	(24.5)	Black	10
166-90086	1-1/4	(42.0)	HG125-45F-M40	M40	1.54	(39.0)	Black	2
166-90087	1-1/2	(54.0)	HG150-45F-M50	M50	1.54	(39.0)	Black	2
IP68								
166-90089	1/2	(21.0)	HGL050-45F-M20	M20	0.55	(14.0)	Black	10
166-90090	3/4	(28.0)	HGL075-45F-M25	M25	0.75	(19.0)	Black	10
166-90091	1	(34.0)	HGL100-45F-M32	M32	0.96	(24.5)	Black	10
166-90092	1-1/4	(42.0)	HGL125-45F-M40	M40	1.54	(39.0)	Black	2
166-90093	1-1/2	(54.0)	HGL150-45F-M50	M50	1.54	(39.0)	Black	2

Use Part No. for ordering and Type for specification purposes.

MATERIAL	Polyamide 6.6 (PA66); Nickel Plated Brass (NPB)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



Straight Swivel Flange Fittings

HG-SFL & HGL-SFL Series

Straight fitting with flange features a snap-on design that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- Flange provides easy installation to flat surfaces.
- Swivel feature minimizes cable twisting, providing strain relief.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- All-around “teeth” attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-SFL Straight Swivel Flange



HGL-SFL Straight Swivel Flange with conduit seal

PART NO.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Pkg Qty (pk)
	in.	(mm)		in.	(mm)		
IP66							
166-90148	3/8	(16.0)	HG038-SFL	0.57	(14.5)	Black	10
166-90149	1/2	(21.0)	HG050-SFL	0.77	(19.5)	Black	10
166-90150	3/4	(28.0)	HG075-SFL	1.04	(26.5)	Black	10
166-90151	1	(34.0)	HG100-SFL	1.28	(32.5)	Black	10
166-90152	1-1/4	(42.0)	HG125-SFL	1.65	(42.0)	Black	2
IP68							
166-90163	3/8	(16.0)	HGL038-SFL	0.57	(14.5)	Black	10
166-90164	1/2	(21.0)	HGL050-SFL	0.77	(19.5)	Black	10
166-90165	3/4	(28.0)	HGL075-SFL	1.04	(26.5)	Black	10
166-90166	1	(34.0)	HGL100-SFL	1.28	(32.5)	Black	10
166-90167	1-1/4	(42.0)	HGL125-SFL	1.65	(42.0)	Black	2

Use Part No. for ordering and Type for specification purposes.

MATERIAL	Polyamide 6.6 (PA66); Nickel Plated Brass (NPB)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



Routing, Protection & Insulation

HelaGuard Non-Metallic Fittings

90 Degree Elbow Swivel Flange Fittings

HG-90FL & HGL-90FL Series

Elbow fitting with flange features a snap-on design that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- Flange provides easy installation to flat surfaces.
- Swivel feature minimizes cable twisting, providing strain relief.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- Elbow features a smooth, swept bore to ease cable installation.
- All-around "teeth" attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-90FL 90° Elbow Swivel Flange



HGL-90FL 90° Elbow Swivel Flange with conduit seal

PART NO.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Pkg Qty (pk)
	in.	(mm)		in.	(mm)		
IP66							
166-90143	3/8	(16.0)	HG038-90FL	0.55	(14.0)	Black	10
166-90144	1/2	(21.0)	HG050-90FL	0.75	(19.0)	Black	10
166-90145	3/4	(28.0)	HG075-90FL	0.96	(24.5)	Black	10
166-90146	1	(34.0)	HG100-90FL	1.54	(39.0)	Black	10
166-90147	1-1/4	(42.0)	HG125-90FL	1.54	(39.0)	Black	2
IP68							
166-90158	3/8	(16.0)	HGL038-90FL	0.55	(14.0)	Black	10
166-90159	1/2	(21.0)	HGL050-90FL	0.75	(19.0)	Black	10
166-90160	3/4	(28.0)	HGL075-90FL	0.96	(24.5)	Black	10
166-90161	1	(34.0)	HGL100-90FL	1.54	(39.0)	Black	10
166-90162	1-1/4	(42.0)	HGL125-90FL	1.54	(39.0)	Black	2

Use Part No. for ordering and Type for specification purposes.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



45 Degree Elbow Swivel Flange Fittings

HG-45FL & HGL-45FL Series

Elbow fitting with flange features a snap-on design that provides a quick, secure connection. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- Flange provides easy installation to flat surfaces.
- Swivel feature minimizes cable twisting, providing strain relief.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- Elbow features a smooth, swept bore to ease cable installation.
- All-around "teeth" attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-45FL 45° Elbow Swivel Flange



HGL-45FL 45° Elbow Swivel Flange with conduit seal

PART NO.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Pkg Qty (pk)
	in.	(mm)		in.	(mm)		
IP66							
166-90138	3/8	(16.0)	HG038-45FL	0.55	(14.0)	Black	10
166-90139	1/2	(21.0)	HG050-45FL	0.75	(19.0)	Black	10
166-90140	3/4	(28.0)	HG075-45FL	0.96	(24.5)	Black	10
166-90141	1	(34.0)	HG100-45FL	1.54	(39.0)	Black	10
166-90142	1-1/4	(42.0)	HG125-45FL	1.54	(39.0)	Black	2
IP68							
166-90153	3/8	(16.0)	HGL038-45FL	0.55	(14.0)	Black	10
166-90154	1/2	(21.0)	HGL050-45FL	0.75	(19.0)	Black	10
166-90155	3/4	(28.0)	HGL075-45FL	0.96	(24.5)	Black	10
166-90156	1	(34.0)	HGL100-45FL	1.54	(39.0)	Black	10
166-90157	1-1/4	(42.0)	HGL125-45FL	1.54	(39.0)	Black	2

Use Part No. for ordering and Type for specification purposes.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



Routing, Protection & Insulation

HelaGuard Non-Metallic Fittings

T-Connectors

HG-T & HGL-T Series

T-Connectors are used to join three same diameter corrugated conduits together, and redirect cables and hoses into multiple directions. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with a small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- Used to join conduits of same diameters and route to multiple directions.
- Inspection lid facilitates cable pull through and eases installation.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- All-around "teeth" attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- Vibration and shock tested to EN61373 Category 2.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-T, T-Connector



HGL-T, T-Connector with conduit seals

PART NO.	Nominal Size (Ø)		Type	Color	Package Qty
	in.	(mm)			(pk)
IP66					
166-90173	3/8	(16.0)	HG038-T	Black	5
166-90174	1/2	(21.0)	HG050-T	Black	3
166-90175	3/4	(28.0)	HG075-T	Black	3
166-90176	1	(34.0)	HG100-T	Black	2
166-90177	1-1/4	(42.0)	HG125-T	Black	2
IP68					
166-90168	3/8	(16.0)	HGL038-T	Black	5
166-90169	1/2	(21.0)	HGL050-T	Black	3
166-90170	3/4	(28.0)	HGL075-T	Black	3
166-90171	1	(34.0)	HGL100-T	Black	2
166-90172	1-1/4	(42.0)	HGL125-T	Black	2

Use Part No. for ordering and Type for specification purposes.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



Please note: For product specific approvals, please contact HellermannTyton.

Y-Divider Fittings

HG-Y and HGL-YL Series Fittings

Y-Divider connectors are used to reduce diameter of conduit runs and re-direct in side-by-side direction. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Designed for easy removal with small screwdriver. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- Conduit divider fitting used to reduce conduit run diameter sizes
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- All-around “teeth” attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-Y-Y-Connector



HGL-YL-YL Connector.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



PART NO.	Conduit Nominal Size (Ø)				Type	Color	Pkg Qty
	From Nominal Diameter	To Nominal Diameter	From Nominal Diameter	To Nominal Diameter			
	in.	in.	mm	mm			(pk)
IP66							
166-90366	3/8	5/16	16	13	HG038-Y031-Y031	Black	3
166-90367	1/2	3/8	21	16	HG050-Y038-Y038	Black	3
166-90368	3/4	1/2	28	21	HG075-Y050-Y050	Black	3
166-90369	1	3/4	34	28	HG100-Y075-Y075	Black	3
IP68							
166-90370	3/8	5/16	16	13	HGL038-YL031-YL031	Black	3
166-90371	1/2	3/8	21	16	HGL050-YL038-YL038	Black	3
166-90372	3/4	1/2	28	21	HGL075-YL050-YL050	Black	3
166-90373	1	3/4	34	28	HGL100-YL075-YL075	Black	3

Use Part No. for ordering and Type for specification purposes.



Please note: For product specific approvals, please contact HellermannTyton.

Routing, Protection & Insulation

HelaGuard Non-Metallic Fittings

Conduit Couplers

HG-HG Series

Used to join two same diameter corrugated conduits together, couplers feature a snap-on design for a quick, secure connection. Designed for easy removal with a small screwdriver. Suitable for use on all types of corrugated conduits, both fine and course pitch material.

Features and Benefits

- One-piece fitting used to join conduits of same diameters.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- All-around “teeth” attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP66 ingress protection rating against water, dust and wind.



HG-HG Coupler

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



PART NO.	Conduit Nominal Size (Ø)				Type	Color	Pkg Qty (pk)
	From Nominal Diameter	To Nominal Diameter	From Nominal Diameter	To Nominal Diameter			
	in.	in.	mm	mm			
166-90230	3/8	3/8	(16.0)	(16.0)	HG038-HG038	Black	10
166-90231	1/2	1/2	(21.0)	(21.0)	HG050-HG050	Black	10
166-90232	3/4	3/4	(28.0)	(28.0)	HG075-HG075	Black	10
166-90233	1	1	(34.0)	(34.0)	HG100-HG100	Black	10
166-90234	1-1/2	1-1/2	(54.0)	(54.0)	HG150-HG150	Black	2

Use Part No. for ordering and Type for specification purposes.



Please note: For product specific approvals, please contact HellermannTyton.

Reducer Fittings Nomenclature

Example

Reducer: **HG050-R100**



Box colors above refer to the following chart colors below.

Product Line	
HG	HelaGuard Non-Metallic Conduits & Fittings IP66
HGL	HelaGuard Non-Metallic Conduits & Fittings IP68

Conduit Nominal Size <i>(size being reduced to)</i>	
038	= 3/8" (16mm)
050	= 1/2" (21mm)
075	= 3/4" (28mm)
100	= 1" (34mm)
125	= 1-1/4" (40mm)

Reducer Type	
R	= Reducer

T-Connector Size <i>(size being reduced from)</i>	
050	= 1/2" (21mm)
075	= 3/4" (28mm)
100	= 1" (34mm)
125	= 1-1/4" (40mm)

Routing, Protection & Insulation

HelaGuard Non-Metallic Fittings

Conduit Reducers

HG-R & HGL-R Series

Conduit Reducers are used with T-Connectors to combine different conduit diameters. Suitable for use on all types of corrugated conduits, both fine and course pitch material. Nylon material provides high resistance to oils and solvents, with great durability and extremely high extraction force. Choose from IP66 or IP68 ingress protection rated fittings.

Features and Benefits

- Used to join conduits of different diameters.
- Snap-on construction reduces installation time and costs by eliminating the need to thread fittings onto conduits.
- All-around “teeth” attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- Vibration and shock tested to EN61373 Category 2.
- IP66 fitting has one-piece construction.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



HG-R Reducer



HGL-R Reducer with conduit seal

PART NO.	Conduit Nominal Size (Ø)				Type	Bore Hole (Ø)		Color	Pkg Qty
	To in.	From in.	To mm	From mm		in.	(mm)		(pk)
IP66									
166-90000	3/8	1/2	16.0	21.0	HG038-R050	0.57	(14.5)	Black	5
166-90001	3/8	3/4	16.0	28.0	HG038-R075	0.57	(14.5)	Black	5
166-90002	1/2		21.0		HG050-R075	0.69	(17.5)	Black	5
166-90003	3/8	1	16.0	34.0	HG038-R100	0.57	(14.5)	Black	5
166-90004	1/2		21.0		HG050-R100	0.69	(17.5)	Black	5
166-90005	3/4		28.0		HG075-R100	1.01	(25.7)	Black	5
166-90006	1/2	1-1/4	21.0	42.0	HG050-R125	0.69	(17.5)	Black	5
166-90007	3/4		28.0		HG075-R125	1.01	(25.7)	Black	5
166-90008	1		34.0		HG100-R125	1.24	(31.5)	Black	5
IP68									
166-90009	3/8	1/2	16.0	21.0	HGL038-R050	0.57	(14.5)	Black	5
166-90010	3/8	3/4	16.0	28.0	HGL038-R075	0.57	(14.5)	Black	5
166-90011	1/2		21.0		HGL050-R075	0.69	(17.5)	Black	5
166-90012	3/8	1	16.0	34.0	HGL038-R100	0.57	(14.5)	Black	5
166-90013	1/2		21.0		HGL050-R100	0.69	(17.5)	Black	5
166-90014	3/4		28.0		HGL075-R100	1.01	(25.7)	Black	5
166-90015	1/2	1-1/4	21.0	42.0	HGL050-R125	0.69	(17.5)	Black	5
166-90016	3/4		28.0		HGL075-R125	1.01	(25.7)	Black	5
166-90017	1		34.0		HGL100-R125	1.24	(31.5)	Black	5

Use Part No. for ordering and Type for specification purposes.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



Routing, Protection & Insulation

HelaGuard Non-Metallic Reinforced Spiral Tubing

PSR Reinforced Spiral Tubing

PSR Series, PVC

A lightweight tubing with a smooth inside bore, made of a spiral reinforced PVC material that provides high flexibility. This tubing is well-suited for protecting wire and cable bundles in extremely tight spaces. UV resistant. Use with HelaGuard Non-Metallic Compression Fittings to create an enclosed system.

Features and Benefits

- Spiral reinforced construction provides protection from crushing yet remains extremely flexible.
- Lightweight, easy-to-use material reduces installation time and labor costs.
- Material stands up to vibration and limited torsional movement without creation of stress points or cracks.
- Smooth inside bore protects wires and eases insertion of wire bundles.
- UV resistant; suitable for use in outdoor applications.



PSR Reinforced Spiral Tubing

MATERIAL	Polyvinylchloride (PVC)
Operating Temperature	-4°F to +158°F (-20°C to +70°C)
Flammability	Self-extinguishing according to EN IEC 61386

PART NO.	Nominal Size (Ø)		Type	Outside Diameter Ø (OD)		Inside Diameter Ø (ID)		Inside Bend Radius		Color	Package Quantity per Reel	
	in.	(mm)		in.	(mm)	in.	(mm)	in.	(mm)		ft	(m)
166-90220	3/8	(16)	PSR0380	0.65	(16.5)	0.48	(12.0)	0.99	(25)	Black	100	(30.5)
166-90221	1/2	(20)	PSR0500	0.83	(21.0)	0.63	(16.0)	1.38	(35)	Black	100	(30.5)
166-90222	3/4	(25)	PSR0750	1.09	(27.5)	0.87	(22.0)	1.78	(45)	Black	100	(30.5)
166-90223	1	(32)	PSR1000	1.32	(33.5)	1.11	(28.0)	2.36	(60)	Black	100	(30.5)
166-90224	1.25	(40)	PSR1250	1.62	(41.0)	1.38	(35.0)	3.15	(80)	Black	100	(30.5)
166-90502	1.50	(50)	PSR1500	1.83	(46.4)	1.57	(40.0)	4.13	(105)	Black	100	(30.5)
166-90503	2.0	(63)	PSR2000	2.24	(57.0)	1.97	(50.0)	4.72	(120)	Black	100	(30.5)

Use Part No. for ordering and Type for specification purposes.



Please note: For product specific approvals, please contact HellermannTyton.

Routing, Protection & Insulation

HelaGuard Non-Metallic Reinforced Smooth Tubing

LPC Reinforced Smooth Tubing

LPC Series, PVC

A lightweight, smooth tubing made of a spiral reinforced PVC material that provides high flexibility; well-suited for protecting wire and cable bundles in extremely tight spaces. UV resistant. Use with HelaGuard Metallic (LPC-C) or Non-metallic Compression (PSR) Fittings for IP68 rating.

Features and Benefits

- Spiral reinforced construction provides protection from crushing yet remains extremely flexible.
- Lightweight, easy-to-use material reduces installation time and labor costs.
- Material stands up to vibration and limited torsional movement without creation of stress points or cracks.
- Smooth inside bore protects wires and eases insertion of wire bundles.
- UV resistant; suitable for use in outdoor applications.
- Outer surface wipes clean in wash-down environments.



LPC Reinforced Smooth Tubing

MATERIAL	Polyvinylchloride (PVC)
Operating Temperature	+23°F to +158°F (-5°C to +70°C)
Flammability	Self-extinguishing according to EN IEC 61386-1

PART NO.	Nominal Size (Ø)		Type	Outside Diameter Ø (OD)		Inside Diameter Ø (ID)		Inside Bend Radius		Color	Package Quantity per Reel	
	in.	(mm)		in.	(mm)	in.	(mm)	in.	(mm)		ft	(m)
166-90247	3/8	(16)	LPC0380	0.7	(17.8)	0.5	(12.6)	1.97	(50)	Black	100	(30.5)
166-90248	1/2	(20)	LPC0500	0.83	(21.1)	0.63	(16.0)	2.76	(70)	Black	100	(30.5)
166-90249	3/4	(25)	LPC0750	1.04	(26.4)	0.83	(21.0)	3.54	(90)	Black	100	(30.5)
166-90250	1	(32)	LPC1000	1.3	(33.1)	1.04	(26.5)	5.51	(140)	Black	100	(30.5)
166-90251	1.25	(40)	LPC1250	1.65	(41.8)	1.39	(35.4)	7.48	(190)	Black	100	(30.5)
166-90500	1.50	(50)	LPC1500	1.89	(47.9)	1.57	(40.0)	9.45	(240)	Black	100	(30.5)
166-90501	2.0	(63)	LPC2000	2.35	(59.7)	2.02	(51.3)	10.63	(270)	Black	100	(30.5)

Use Part No. for ordering and Type for specification purposes.

2-Piece NPT Thread Compression Fittings

PSR-S, PSR-90 & PSR-45 Series

Compression fittings feature a twist-on design for easy installation and future access. Constructed of a very durable nylon material with a high resistance to salts, oils, weak acids and solvents. Fits HelaGuard non-metallic LPC and PSR tubing.

Features and Benefits

- External NPT thread provides a secure connection.
- Twist-on installation makes future access fast and easy.
- Internal spigot design helps ease threading of fitting onto conduit.
- All-around "teeth" attach firmly to conduit and deliver a high extraction force.
- Durable nylon material has high resistance to salts, oils, weak acids and solvents.
- IP65 rating for protection against wind, dirt and low pressure jets of water from all directions.



PSR-S Straight



PSR-90 90° Elbow



PSR-45 45° Elbow

PART NO.	Nominal Size (Ø)		Type	Bore Hole (OD)		Color	Pkg Qty (pk)
	in.	(mm)		in.	(mm)		
Straight							
166-90133	3/8	(16)	PSR038-S-0380	0.41	(10.5)	Black	10
166-90134	1/2	(20)	PSR050-S-0500	0.57	(14.5)	Black	10
166-90135	3/4	(25)	PSR075-S-0750	0.75	(19.0)	Black	10
166-90136	1	(32)	PSR100-S-1000	0.96	(24.5)	Black	10
166-90137	1.25	(40)	PSR125-S-1250	1.30	(33.0)	Black	2
166-90505	1.50	(50)	PSR150-S-1500	1.54	(39.0)	Black	1
166-90506	2.0	(63)	PSR200-S-2000	1.89	(48.0)	Black	1
90 Degree Elbow							
166-90128	3/8	(16)	PSR038-90-0500	0.41	(10.5)	Black	10
166-90129	1/2	(20)	PSR050-90-0500	0.57	(14.5)	Black	10
166-90130	3/4	(25)	PSR075-90-0750	0.75	(19.0)	Black	10
166-90131	1	(32)	PSR100-90-1000	0.96	(24.5)	Black	10
166-90132	1.25	(40)	PSR125-90-1250	1.30	(33.0)	Black	2
45 Degree Elbow							
166-90124	3/8	(16)	PSR038-45-0500	0.41	(10.5)	Black	10
166-90125	1/2	(20)	PSR050-45-0500	0.57	(14.5)	Black	10
166-90126	3/4	(25)	PSR075-45-0750	0.75	(19.0)	Black	10
166-90127	1	(32)	PSR100-45-1000	0.96	(24.5)	Black	10

Use Part No. for ordering and Type for specification purposes.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-40°F to +248°F (-40°C to +120°C)
Flammability	UL94 V2



Please note: For product specific approvals, please contact HellermannTyton.

Routing, Protection & Insulation

HelaGuard Compression Fittings

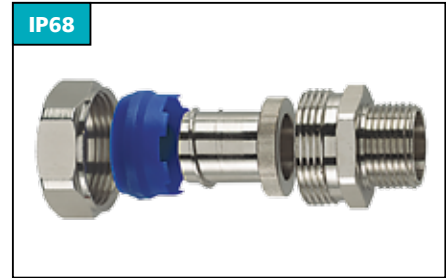
Fittings for LPC Smooth Bore PVC Tubing

LPC-C Fixed Straight Compression Fitting, NPT Thread, IP68

Multi-part metallic straight compression style fitting for use with LPC non-metallic PVC tubing. Suitable for NPT threaded entries or knocknuts as fitting rotates until tightened. A longer and shallower scroll allows quick assembly and more durable fit with smooth bore tubing. Provides IP68 and up to IP69 ingress protection.

Features and Benefits

- External nickel-plated brass NPT thread provides a durable connection.
- Swivel feature allows fitting to rotate until tightened.
- Metal ferrule insert has shallow & longer scroll for stronger fit with LPC smooth bore PVC tubings.
- IP68 fitting has additional conduit seal for increased protection against wind, dirt and water.



LPC-C Straight Fitting

MATERIAL	Nickel Plated Brass (NPB) Polyamide 6 (PA6)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)

PART NO.	Fits Conduit Nominal Size (Ø)		Type	Clearance Hole (OD)		Color	Package Quantity (pk)
	in.	(mm)		in.	(mm)		
Straight							
166-90361	3/8	(16)	LPC038-S-050	0.42	(10.7)	Metal	10
166-90362	1/2	(20)	LPC050-S-050	0.57	(14.5)	Metal	10
166-90363	3/4	(25)	LPC075-S-075	0.75	(19.0)	Metal	10
166-90364	1	(32)	LPC100-S-100	0.97	(24.6)	Metal	2
166-90365	1.25	(40)	LPC125-S-125	1.29	(32.7)	Metal	2
166-90614	1.50	(50)	LPC150-S-150	1.48	(37.7)	Metal	1
166-90615	2.0	(63)	LPC200-S-200	1.93	(49.0)	Metal	1

Use Part No. for ordering and Type for specification purposes.



Please note: For product specific approvals, please contact HellermannTyton.

HelaGuard Accessories Guide

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Routing, Protection & Insulation

HelaGuard Accessories

Nylon End Caps for Corrugated Conduits

PAEC Series

Nylon cap snaps over un-terminated conduit ends to prevent damage to wires caused by rubbing against sharp conduit edges. For use with HelaGuard corrugated conduits.

Features and Benefits

- Snaps over end of conduit when not terminated with fitting to provide smooth entry point and prevent damage to cables.
- Easily to install; reduces installation time.

PART NO.	Nominal Size (Ø)		Type	Bore Hole (OD)		Color	Pkg Qty (pk)
	in.	(mm)		in.	(mm)		
166-90184	3/8	(16.0)	PAEC0380	0.41	(10.5)	Black	10
166-90185	1/2	(21.0)	PAEC0500	0.59	(15.0)	Black	10
166-90186	3/4	(28.0)	PAEC0750	0.79	(20.0)	Black	10
166-90187	1	(34.0)	PAEC1000	0.98	(25.0)	Black	10
166-90188	1-1/4	(42.0)	PAEC1250	1.26	(32.0)	Black	10
166-90189	1-1/2	(54.0)	PAEC1500	1.71	(43.5)	Black	10

Use Part No. for ordering and Type for specification purposes.



PAEC Nylon End Cap

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2

HF ✓

RoHS ✓

Rubber End Caps

REC Series

Rubber cap easily slides over un-terminated conduit and tubing ends to protect inside wire and cable bundles from debris. For use with HelaGuard conduits and tubing.

Features and Benefits

- Flexible rubber material easily slips over end of conduit to seal out dust and debris.
- Diameter markings make it easy to cut down to appropriate size.
- Contains a cable tie slot for extra retention when required.

PART NO.	Nominal Size (Ø)		Type	Color	Package Quantity (pk)
	in.	(mm)			
166-90235	3/8	(16.0)	REC0380	Black	10
166-90236	1/2	(21.0)	REC0500	Black	10
166-90237	3/4	(28.0)	REC0750	Black	10
166-90238	1	(34.0)	REC1000	Black	10
166-90239	1-1/4	(42.0)	REC1250	Black	10
166-90240	1-1/2	(54.0)	REC1500	Black	10

Use Part No. for ordering and Type for specification purposes.



REC Rubber End Cap

MATERIAL	Rubber
Operating Temperature	-58°F to +248°F (-50°C to +120°C)
Flammability	UL94 V2

HF ✓

RoHS ✓

Nickel Plated Brass Locknuts

ALNPB Series, Metric or NPT Thread

Locknuts work with threaded fittings or knockout entries.

Features and Benefits

- Nickel Plated brass thread ensures secure connection with brass plated or nylon threaded fittings
- NPT thread pattern works with metallic or non-metallic threaded fittings.
- Use NPT metallic locknuts with 1.25", 1.5" and 2" nylon fittings



ALNPB Nickel Plated Brass Locknut

PART NO.	Type	Thread Size	Thickness		Wrenching Flats		Color	Pkg Qty (pk)
			in.	(mm)	in.	(mm)		
166-50170	ALNPB-M16	M16	0.14	(3.5)	0.79	(20)	Silver	10
166-50171	ALNPB-M20	M20	0.14	(3.5)	0.95	(24)	Silver	10
166-50172	ALNPB-M25	M25	0.14	(3.5)	1.14	(29)	Silver	10
166-50173	ALNPB-M32	M32	0.18	(4.5)	1.5	(38)	Silver	2
166-50174	ALNPB-M40	M40	0.2	(5.0)	1.89	(48)	Silver	1
166-50175	ALNPB-M50	M50	0.24	(6.0)	2.28	(58)	Silver	1
166-90354	ALNPB-0380	3/8	0.16	(4.0)	0.79	(20.0)	Silver	10
166-90355	ALNPB-0500	1/2	0.17	(4.5)	0.94	(24.0)	Silver	10
166-90356	ALNPB-0750	3/4	0.2	(5.0)	1.14	(29.0)	Silver	10
166-90357	ALNPB-1000	1	0.23	(5.8)	1.5	(38.0)	Silver	10
166-90358	ALNPB-1250	1.25	0.25	(6.4)	1.89	(48.0)	Silver	4
166-90359	ALNPB-1500	1.50	0.26	(6.5)	2.28	(58.0)	Silver	4
166-90467	ALNPB-2000	2.0	0.26	(6.5)	2.76	(70.0)	Silver	2

Use Part No. for ordering and Type for specification purposes.

MATERIAL	Nickel Plated Brass (NPB)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)



Nylon Locknuts

ALPA Series, NPT Thread

Made of strong and chemical resistant PA66 material, locknut secures non-metallic NPT fittings when used with non-threaded entries.

Features and Benefits

- Ensures fast and secure assembly with non-metallic NPT fittings.



ALPA Nylon Locknut

PART NO.	Type	Thread Size	Thickness		Wrenching Flats		Color	Package Quantity (pk)
			in. (mm)	in. (mm)	in. (mm)	in. (mm)		
166-90018	ALPA0380	3/8	0.265	(6.7)	1.060	(26.9)	Black	10
166-90019	ALPA0500	1/2	0.265	(6.7)	1.060	(26.9)	Black	10
166-90020	ALPA0750	3/4	0.265	(6.7)	1.310	(33.3)	Black	10
166-90021	ALPA1000	1	0.265	(6.7)	1.605	(40.8)	Black	10

Use Part No. for ordering and Type for specification purposes.

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)



Routing, Protection & Insulation

HelaGuard Accessories

Clips for Corrugated Conduits

PACC Series

Conduit Clips clamp onto corrugated conduits to secure. Nylon material resists corrosion and chemicals. Can also be used on C-shaped DIN rails.

Features and Benefits

- Integrated flip open lid for quick and easy assembly.
- Inner rib prevents conduit from slipping.
- Easy access mounting hole reduces installation time.
- Quick release for easy future access.

PART NO.	Nominal Size (Ø)		Type	Color	Package Quantity (pk)
	in.	(mm)			
166-90302	5/16	(13)	PACC0310	Black	10
166-90178	3/8	(16.0)	PACC0380	Black	10
166-90179	1/2	(21.0)	PACC0500	Black	10
166-90180	3/4	(28.0)	PACC0750	Black	10
166-90181	1	(34.0)	PACC1000	Black	10
166-90182	1-1/4	(42.0)	PACC1250	Black	5
166-90183	1-1/2	(54.0)	PACC1500	Black	5

Use Part No. for ordering and Type for specification purposes.



PACC Conduit Clip for Corrugated Conduits

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



Clips for PSR & LPC Tubing

AFCP Series

Tubing Clips clamp onto conduits and tubing to secure. Nylon material resists corrosion and chemicals. Can also be used on C-shaped DIN rails.

Features and Benefits

- Integrated flip open lid for quick and easy assembly.
- Smooth inner surface holds tubing from slipping.
- Easy access mounting hole reduces installation time.
- Quick release for easy future access.

PART NO.	Nominal Size (Ø)		Type	Color	Package Quantity (pk)
	in.	(mm)			
166-90374	3/8	(16)	AFCP0380	Black	10
166-90375	1/2	(20)	AFCP0500	Black	10
166-90376	3/4	(25)	AFCP0750	Black	10
166-90377	1	(32)	AFCP1000	Black	10

Use Part No. for ordering and Type for specification purposes.



AFCP Tubing Clip for Flexible PVC Tubing

MATERIAL	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



ConCutter Non-Metallic Conduit Cutters

Handheld cutter tool for HelaGuard non-metallic conduits and tubing.

Features and Benefits

- Assists with installation by easily cutting through HelaGuard non-metallic conduit and tubing.

PART NO.	Type	Description	Package Quantity
			(pk)
166-51101	CONCUTTER1	For non-metallic conduits up to 34mm	1
166-51102	CONCUTTER2	For non-metallic conduits up to 67mm	1

Use Part No. for ordering and Type for specification purposes.



ConCutter Conduit Cutter

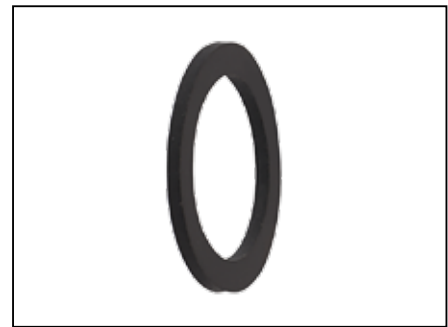
Sealing Washers

SW Series for use with Non-metallic threaded fittings

Chloroprene rubber sealing washer for use with non-metallic threaded fittings

Features and Benefits

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



MATERIAL	Chloroprene (CR)
Operating Temperature	-40°F to +275°F (-40°C to +135°C)

PART NO.	Thread Size	Outside Ø (OD)		Inside Ø (ID)		Type	Thickness		Color	Package Quantity
	NPT	mm	in.	mm	in.		mm	in.		(pk)
166-90480	3/8	22	0.87	16	0.63	SW0380	1.6	0.06	Black	100
166-90481	1/2	26	1.02	20	0.79	SW0500	1.6	0.06	Black	50
166-90482	3/4	32	1.26	25	0.98	SW0750	1.6	0.06	Black	10
166-90483	1	41.2	1.62	32	1.26	SW1000	1.6	0.06	Black	10
166-90484	1.25	50	1.97	40	1.57	SW1250	1.6	0.06	Black	10
166-90485	1.50	60	2.36	50	1.97	SW1500	1.6	0.06	Black	10
166-90486	2.0	73	2.87	63	2.48	SW2000	1.6	0.06	Black	10

Use Part No. for ordering and Type for specification purposes.

Routing, Protection & Insulation

HelaGuard Accessories

Sealing Washers

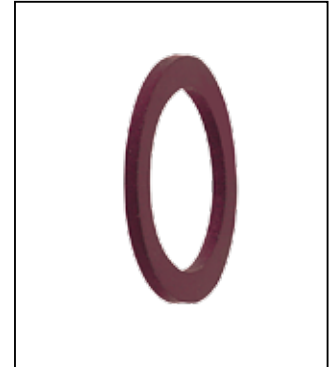
FW Series for use with metallic threaded fittings

Vulcanized fiber sealing washer used with metallic threaded fittings. Suitable for Metric or NPT threaded fittings.

Features and Benefits

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

MATERIAL	Vulcanized Fibre (VF)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)



PART NO.	Thread Size		Outside Ø (OD)		Inside Ø (ID)		Type	Thickness		Color	Pkg Qty (pk)
	Metric	NPT	mm	in.	mm	in.		mm	in.		
166-90736	16	3/8	22	0.87	16	0.63	FW16	1.6	0.06	Red	10
166-90737	20	1/2	26	1.02	20	0.79	FW20	1.6	0.06	Red	10
166-90738	25	3/4	32	1.26	25	0.98	FW25	1.6	0.06	Red	10
166-90739	32	1	41.2	1.62	32	1.26	FW32	1.6	0.06	Red	10
166-90740	40	1.25	50	1.97	40	1.57	FW40	1.6	0.06	Red	10
166-90741	50	1.50	60	2.36	50	1.97	FW50	1.6	0.06	Red	10
166-90742	63	2.0	73	2.87	63	2.48	FW63	1.6	0.06	Red	10

Use Part No. for ordering and Type for specification purposes.

Sealing Washers

RSW Series for use with non-metallic and metallic fittings

Face sealing washer affixed between threaded fitting and entry wall surface to achieve IP66, IP67, IP68 and IP69 levels of ingress protection. Hardness 33 Shore D. Self-extinguishing and halogen free.

Features and Benefits

- Polyester elastomer washer provides ingress protection against moisture and is oil resistant
- Small "pips" in bore retain washer onto metric threaded fittings.
- Ribs on both sides of washer enhances sealing performance.

MATERIAL	Polyester Elastomer (TPE)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)



PART NO.	Thread Size		Outside Ø (OD)		Inside Ø (ID)		Type	Thickness		Color	Pkg Qty (pk)
	Metric	NPT	mm	in.	mm	in.		mm	in.		
166-90446	16	3/8	24	0.94	16	0.63	RSW16-BU	1.6	0.06	Blue	10
166-90447	20	1/2	27	1.06	20	0.79	RSW20-BU	1.6	0.06	Blue	10
166-90448	25	3/4	34	1.34	25	0.98	RSW25-BU	1.6	0.06	Blue	10
166-90449	32	1	42	1.65	32	1.26	RSW32-BU	1.6	0.06	Blue	10
166-90450	40	1.25	50	1.97	40	1.57	RSW40-BU	1.6	0.06	Blue	10
166-90451	50	1.50	62	2.44	50	1.97	RSW50-BU	1.6	0.06	Blue	10



Use Part No. for ordering and Type for specification purposes.



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Technical Information — Enclosure Rating by Type

NEMA, UL and CSA Standards

Enclosure Rating	NEMA National Electrical Manufacturers Association (NEMA 250)	UL Underwriters Laboratories, Inc. (UL 50) 	CSA Canadian Standards Association (C22.2 No.94-M91) 
Type 1	Enclosures are intended for indoor use primarily to provide a degree of protection against the contact with the enclosed equipment.	Indoor use primarily to provide protection against contact with the enclosed equipment and against a limited amount of falling dirt.	General purpose enclosure. Protects against accidental contact with live parts.
Type 2	Enclosures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling water and dirt.	Indoor use to provide a degree of protection against contact with the enclosed equipment and against a limited amount of falling dirt.	Indoor use to provide a degree of protection against dripping and light splashing of noncorrosive liquids and falling dirt.
Type 3	Enclosures are intended for outdoor use primarily to provide a degree of protection against rain, sleet, windblown dust and damage from external ice formation.	Outdoor use to provide a degree of protection against windblown dust and windblown rain; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use to provide a degree of protection against rain, snow, and windblown dust; undamaged by the external formation of ice on the enclosure.
Type 3R	Enclosures are intended for outdoor use primarily to provide a degree of protection against rain, sleet and damage from external ice formation.	Outdoor use to provide a degree of protection against falling rain; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use to provide a degree of protection against rain, snow; undamaged by the external formation of ice on the enclosure.
Type 4	Enclosures are intended for outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.	Indoor or outdoor use to provide a degree of protection against falling rain, splashing water, and hose-directed water; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use to provide a degree of protection against rain, snow and windblown dust; splashing and hose-directed water; undamaged by the external formation of ice on the enclosure.
Type 4X	Enclosures are intended for outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.	Indoor or outdoor use to provide a degree of protection against falling rain, splashing water, and hose-directed water; undamaged by the formation of ice on the enclosure; resists corrosion.	Indoor or outdoor use to provide a degree of protection against rain, snow and windblown dust; splashing and hose-directed water; undamaged by the external formation of ice on the enclosure; resists corrosion.
Type 6	Enclosures are intended for outdoor use primarily to provide a degree of protection against hose-directed water, the entry of water during occasional temporary submersion at a limited depth, and damage from external ice formation.	Indoor or outdoor use to provide a degree of protection against entry of water during temporary submersion at a limited depth; undamaged by the formation of ice on the enclosure.	Indoor or outdoor use to provide a degree of protection against entry of water during temporary submersion at a limited depth; undamaged by the formation of ice on the enclosure.
Type 12	Enclosures are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping noncorrosive liquids.	Indoor use to provide a degree of protection against dust, dirt, fiber flyings, dripping water, and external condensation of noncorrosive liquids.	Indoor use primarily to provide a degree of protection against circulating dust, lint, fibers and flyings; dripping and light splashing of noncorrosive liquids; not provided with knockouts.
Type 13	Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying water, oil and noncorrosive liquids.	Indoor use to provide a degree of protection against lint, dust seepage, external condensation and spraying of water, oil and noncorrosive liquids.	Indoor use primarily to provide a degree of protection against circulating dust, lint, fibers and flyings; seepage and spraying of noncorrosive liquids including oils and coolants.

Information for Comparisons of IEC and CSA/NEMA/UL/cUL Ratings

NEMA 250 and UL 50 specify tests for environmental conditions such as falling dirt, ice, corrosion, oil and coolants, whereas IEC 529 (EN60529) does not have such requirements. Different rating requirements make comparisons difficult and is subject to interpretation.

The IEC designation consists of the letters IP followed by two numerals. The first number indicates the degree of protection provided by the enclosure against solid foreign objects entering the enclosure. The second number indicates the degree of protection provided by the enclosure against moisture and ingress of water.

An exact equivalence between NEMA designations and the IEC is not possible. The information provided below is to be considered informational only, and caution is necessary when attempting to cross the two ratings. When using this table, converting a NEMA designation to the IEC is feasible. However, it is not possible to make this conversion inversely. This table conversion is not approved by any standards organization.

NEMA Enclosure Type	IEC Enclosure Type
1	IP10
2	IP11
3	IP54
3R	IP14
4	IP54
4X	IP66
6	IP67
12	IP52
13	IP54

Definition of the degrees of protection according to EN 60529 - Ingress Protection

These levels of protection are indicated by a code made up of two constant letters, "IP", and two characteristic numbers that indicate the degree of protection, e.g. IP54. The IP rating indicates the degree of protection against contact/access, and the ingress of solid and liquid foreign bodies.

Contact and Ingress of Solids		
First characteristic numeral	Designation	Scope of protection
0	Non-protected	No special protection for persons against direct contact with live or moving parts. No protection of the equipment against ingress of solid foreign objects.
1	Protection against large foreign bodies	Protection against accidental contact of large areas with live and internal moving parts, e.g. back of hand, but no protection against deliberate access to the parts. Protection against ingress of solid foreign objects with a diameter greater than 50 mm.
2	Protection against medium-sized foreign bodies	Protection against contact between the finger and live or internal moving parts. Protection against ingress of solid foreign objects with a diameter greater than 12.5 mm.
3	Protection against small foreign bodies	Protection against contact between live or internal moving parts and tools, wires and the like with a thickness greater than 2.5 mm. Protection against ingress of solid foreign objects with a diameter greater than 2.5 mm.
4	Protection against granular foreign objects	Protection against contact between live or internal moving parts and tools, wires and the like with a thickness greater than 1 mm. Protection against ingress of solid foreign objects with a diameter greater than 1 mm.
5	Protection against dust deposits	Complete protection against contact with live or internal moving parts; protection against hazardous dust deposits. The ingress of dust is not completely prevented, but dust may not penetrate in such quantities as to impair the function.
6	Protection against dust entry	Complete protection against contact with live or internal moving parts. Protection against the ingress of dust.

Ingress of Liquids		
Second characteristic numeral	Designation	Scope of protection
0	Non-protected	No special protection.
1	Protection against vertically dripping water	Water dripping vertically must cause no damage.
2	Protection against dripping water (tilted)	Water dripping at an angle of 15° to the vertical from any direction must cause no damage.
3	Protection against spraying water	Water dripping at an angle of 60° to the vertical from any direction must cause no damage.
4	Protection against splashing water	Water that splashes against the equipment from any direction must cause no damage.
5	Protection against water jets	A water jet from a nozzle that is directed against the equipment from any direction must cause no damage.
6	Protection against flooding	Water must not penetrate the equipment in hazardous quantities in cases of temporary flooding, e.g. due to heavy seas.
7	Protection during temporary immersion	Water must not penetrate the equipment in hazardous quantities if the equipment is immersed in water under the specified conditions of pressure and time (1 m for 30 min.).
8	Protection during continuous immersion	Water must not penetrate the equipment in hazardous quantities if the equipment is immersed in water (at least 2 bar for 2 h).
9	Protection against high pressure/steam jet cleaning	Highly pressurized water directed at the enclosure from any direction must cause no damage.

Example:

Code IP65
 └── First digit: Protection against contact and ingress of solid foreign objects.
 └── Second digit: Protection against ingress of liquids.

Chemical Resistance

	HELAGUARD NON-METALLIC CONDUITS						
	HG-SW	HG-LW	HG-FR	HG-HI	HG-DC	PSR	LPC
ASTM NO. 1	++	++	++	++	++	o	++
ASTM NO. 2	++	++	++	++	++	o	++
ASTM NO. 3	++	++	++	++	++	o	++
Acetic Acid (10%)	+	+	+	+	+	+	++
Acetone	++	++	++	++	++	o	o
Aluminum Chloride	o	o	o	o	o	+	o
Benzene	++	++	++	++	++	o	o
Carbon Tetrachloride	++	++	++	++	++	+	+
Chloroform	o	o	o	o	o	o	o
Citric Acid	++	++	++	++	++	++	++
Copper Sulphate	+	+	+	+	+	+	++
Cresol	o	o	o	o	o	o	+
Diesel Oil	++	++	++	++	++	+	++
Diethylamine	++	++	++	+	++	+	+
Ethanol	++	++	++	+	++	o	o
Ether	++	++	++	++	++	+	+
Ethylamine	++	++	++	+	++	+	+
Ethylene Glycol	++	++	++	++	++	+	+
Freon 32	++	++	++	++	++	+	+
Hydrochloric Acid (10%)	o	o	o	o	o	o	+
Hydrochloric Acid (30%)	o	o	o	o	o	o	o
Hydrogen Peroxide (30%)	o	o	o	o	o	+	+
Hydrogen Peroxide (60%)	o	o	o	o	o	o	o
Lactic Acid	+	+	+	+	+	+	+
Lubricating Oil	++	++	++	++	++	+	++
Methanol	+	+	+	+	+	o	o
Methyl Bromide	o	o	o	o	o	o	o
Methyl Ethyl Ketone	++	++	++	++	++	o	o
Nitric Acid (10%)	o	o	o	o	o	o	+
Nitric Acid (60%)	o	o	o	o	o	o	o
Oxalic Acid	+	+	+	+	+	+	++
Ozone (Gas)	o	o	o	o	o	o	+
Paraffin Oil	++	++	++	++	++	+	++
Petrol	++	++	++	++	++	o	++
Phenol	o	o	o	o	o	o	+
Sea Water	++	++	++	++	++	++	+
Silver Nitrate	++	++	++	++	++	++	++
Skydrol®	++	++	++	++	++	o	o
Sodium Chloride	++	++	++	++	++	++	+
Sodium Hydroxide (10%)	++	++	++	++	++	++	++
Sodium Hydroxide (60%)	++	++	++	+	++	+	++
Sulphur Dioxide (Gas)	o	o	o	o	o	o	o
Sulphuric Acid (10%)	o	o	o	o	o	o	o
Toluene	++	++	++	++	++	o	o
Transformer Oil	++	++	++	++	++	+	+
1,1,1-Trichloroethane	++	++	++	++	++	o	o
Trichloroethylene	+	+	+	o	+	o	o
Turpentine	++	++	++	++	++	+	+
Vegetable Oil	++	++	++	++	++	+	++
Vinyl Acetate	+	+	+	+	+	o	o
Water	++	++	++	++	++	++	++
White Spirit	++	++	++	++	++	+	+
Zinc Chloride	o	o	o	o	o	o	o

KEY:

HG-SW = PA6 Standard Weight
 HG-LW = PA6 Lightweight
 HG-FR = PA6 Flame Retardant
 HG-HI = PA12 Standard Weight
 HG-DC = Double Slit
 PSR = Reinforced Spiral Tubing
 LPC = Reinforced Smooth Tubing

++ = Good resistance
 + = Limited resistance
 o = Poor resistance

This information applies at 23°C.

These details provide rough guidelines. They should be regarded as material specifications and are no substitute for suitability tests.

IEC 61386 Classification

	Non-Metallic Conduits based on nominal conduit size 21 mm				
	HG-SW PA6 corrugated, standard weight (with HG fittings)	HG-LW PA6 corrugated, lightweight (with HG fittings)	HG-FR flame retardant corrugated, standard weight (with HGL fittings)	HG-HI PA12 corrugated, standard weight (with HG fittings)	HG-DC PA6 double slit corrugated
Compression Resistance	2	2	2	1	2
Impact Resistance	4	4	4	3	4
Minimum Temperature	2	2	2	5	2
Maximum Temperature	4	4	4	4	4
Bend Resistance	4	4	4	4	4
Electrical Properties	0	0	0	0	0
IP Rating against solid objects	6	6	6	6	4
IP Rating against water	6	6	8	6	0
Corrosion Resistance	—	—	—	—	—
Tensile Strength	2	1	2	1	2
Resistance to Flame Propagation	1	1	1	1	1
Suspended Load Capacity	0	0	0	0	0

IEC 61386 Classification Key	0	1	2	3	4	5	6	7
Compression Resistance (N)	—	125	320	750	1250	4000	—	—
Impact Resistance (J)	—	0,5	1	2	6	20	—	—
Minimum Temperature (°C)	—	+5	-5	-15	-25	-45	—	—
Maximum Temperature (°C)	—	+60	+90	+105	+120	+150	+250	+400
Bend Resistance	—	rigid	pliable	pliable, self-recovering	flexible	—	—	—
Electrical Properties	non-declared	conducting	insulating	conducting/insulating	—	—	—	—
IP Rating against solid objects	—	—	—	3	4	5	6	7
IP Rating against water	0	1	2	3	4	5	6	7
Corrosions Resistance	—	low inside and outside	medium inside and outside	medium inside, high outside	high inside and outside	—	—	—
Tensile Strength (N)	—	100	250	500	1000	2500	—	—
Resistance to Flame Propagation	—	not flame-propagating	flame-propagating	—	—	—	—	—
Suspended Load Capacity (N)	non-declared	20	30	150	450	850	—	—

Thread Data

Metric Thread Standard thread conforming to EN 60423			
Thread Size	External Thread Outside Diameter Ø (OD) (mm)	Internal Thread Inside Diameter Ø (ID) (mm)	Pitch (mm)
M12	12.0	10.4	1.5
M16	16.0	11.4	1.6
M20	20.0	18.4	1.7
M25	25.0	23.4	1.8
M32	32.0	30.4	1.9
M40	40.0	38.4	1.10
M50	50.0	48.4	1.11
M63	63.0	61.4	1.12
M75	75.0	73.4	1.13

NPT Thread Data American taper pipe thread conforming to ANS/ASME B1.20.1-1983		
Thread Size (in)	External Thread Outside Diameter Ø (OD) (mm)	Pitch (mm)
3/8"	16.7	1.1
1/2"	21.0	1.8
3/4"	26.4	1.8
1"	33.3	2.2
1-1/4"	41.9	2.2
1-1/2"	47.8	2.2
2.0"	59.6	2.2

Appendix

Product Selection Guide

Corrugated Conduits				Snap-On Fittings					
Nominal Size		Pitch	Conduit	Straight Nylon		90° Elbow Nylon		45° Nylon Elbow	
Inches	mm	F or C	Type	IP66	IP68	IP66	IP68	IP66	IP68
1/4	10	F	HG-SW025x	NA	NA	NA	NA	NA	NA
5/16	13	F	HG-SW031x	NA	NA	NA	NA	NA	NA
3/8	16	F	HG-SW038x	HG038-S-0380	HGL038-S-0380	NA	NA	NA	NA
3/8	16	F	HG-SW038x	HG038-S-0500	HGL038-S-0500	HG038-90-0500	HGL038-90-0500	HG038-45-0500	NA
1/2	21	F	HG-SW050x	HG050-S-0500	HGL050-S-0500	HG050-90-0500	HGL050-90-0500	HG050-45-0500	HGL050-45-0500
3/4	28	F	HG-SW075x	HG075-S-0750	HGL075-S-0750	HG075-90-0750	HGL075-90-0750	HG075-45-0750	HGL075-45-0750
1	34	C	HG-SW100x	HG100-S-1000	HGL100-S-1000	HG100-90-1000	HGL100-90-1000	HG100-45-1000	HGL100-45-1000
1-1/4	42	C	HG-SW125x	HG125-S-1250	HGL125-S-1250	HG125-90-1250	HGL125-90-1250	NA	NA
1-1/4	42	C	HG-SW125x	HG125-S-1500	NA	HG125-90-1500	NA	NA	NA
1-1/2	54	C	HG-SW150x	HG150-S-1500	HGL150-S-1500	HG150-90-1500	HGL150-90-1500	HG150-45-1500	HGL150-45-1500
1-1/2	54	C	HG-SW150x	HG150-S-2000	NA	NA	NA	NA	NA
2	67	C	HG-SW200x	HG200-S-2000	NA	HG200-90-2000	NA	NA	NA
1/4	10	F	HG-LW0250	NA	NA	NA	NA	NA	NA
3/8	16	F	HG-LW0380	HG038-S-0380	HGL038-S-0380	NA	NA	NA	NA
3/8	16	F	HG-LW0380	HG038-S-0500	HGL038-S-0500	HG038-90-0500	HGL038-90-0500	HG038-45-0500	NA
1/2	21	F	HG-LW0500	HG050-S-0500	HGL050-S-0500	HG050-90-0500	HGL050-90-0500	HG050-45-0500	HGL050-45-0500
3/4	28	F	HG-LW0750	HG075-S-0750	HGL075-S-0750	HG075-90-0750	HGL075-90-0750	HG075-45-0750	HGL075-45-0750
1	34	C	HG-LW1000	HG100-S-1000	HGL100-S-1000	HG100-90-1000	HGL100-90-1000	HG100-45-1000	HGL100-45-1000
1-1/4	42	C	HG-LW1250	HG125-S-1250	HGL125-S-1250	HG125-90-1250	HGL125-90-1250	NA	NA
1-1/4	42	C	HG-LW1250	HG125-S-1500	NA	HG125-90-1500	NA	NA	NA
1-1/2	54	C	HG-LW1500	HG150-S-1500	HGL150-S-1500	HG150-90-1500	HGL150-90-1500	HG150-45-1500	HGL150-45-1500
1-1/2	54	C	HG-LW1500	HG150-S-2000	NA	NA	NA	NA	NA
2	67	C	HG-LW2000	HG200-S-2000	NA	HG200-90-2000	NA	NA	NA
3/8	16	F	HG-FR0380	HG038-S-0380	HGL038-S-0380	NA	NA	NA	NA
3/8	16	F	HG-FR0380	HG038-S-0500	HGL038-S-0500	HG038-90-0500	HGL038-90-0500	HG038-45-0500	NA
1/2	21	F	HG-FR0500	HG050-S-0500	HGL050-S-0500	HG050-90-0500	HGL050-90-0500	HG050-45-0500	HGL050-45-0500
3/4	28	F	HG-FR0750	HG075-S-0750	HGL075-S-0750	HG075-90-0750	HGL075-90-0750	HG075-45-0750	HGL075-45-0750
1	34	C	HG-FR1000	HG100-S-1000	HGL100-S-1000	HG100-90-1000	HGL100-90-1000	HG100-45-1000	HGL100-45-1000
1-1/4	42	C	HG-FR1250	HG125-S-1250	HGL125-S-1250	HG125-90-1250	HGL125-90-1250	NA	NA
1-1/4	42	C	HG-FR1250	HG125-S-1500	NA	HG125-90-1500	NA	NA	NA
1-1/2	54	C	HG-FR1500	HG150-S-1500	HGL150-S-1500	HG150-90-1500	HGL150-90-1500	HG150-45-1500	HGL150-45-1500
1-1/2	54	C	HG-FR1500	HG150-S-2000	NA	NA	NA	NA	NA
5/16	13	F	HG-HI0310	NA	NA	NA	NA	NA	NA
3/8	16	F	HG-HI0380	HG038-S-0380	HGL038-S-0380	NA	NA	NA	NA
3/8	16	F	HG-HI0380	HG038-S-0500	HGL038-S-0500	HG038-90-0500	HGL038-90-0500	HG038-45-0500	NA
1/2	21	F	HG-HI0500	HG050-S-0500	HGL050-S-0500	HG050-90-0500	HGL050-90-0500	HG050-45-0500	HGL050-45-0500
3/4	28	F	HG-HI0750	HG075-S-0750	HGL075-S-0750	HG075-90-0750	HGL075-90-0750	HG075-45-0750	HGL075-45-0750
1	34	C	HG-HI1000	HG100-S-1000	HGL100-S-1000	HG100-90-1000	HGL100-90-1000	HG100-45-1000	HGL100-45-1000
1-1/4	42	C	HG-HI1250	HG125-S-1250	HGL125-S-1250	HG125-90-1250	HGL125-90-1250	NA	NA
1-1/4	42	C	HG-HI1250	HG125-S-1500	NA	HG125-90-1500	NA	NA	NA
1-1/2	54	C	HG-HI1500	HG150-S-1500	HGL150-S-1500	HG150-90-1500	HGL150-90-1500	HG150-45-1500	HGL150-45-1500
1-1/2	54	C	HG-HI1500	HG150-S-2000	NA	NA	NA	NA	NA
2	67	C	HG-HI2000	HG200-S-2000	NA	HG200-90-2000	NA	NA	NA
3/8	16	F	HG-DC0380	HG038-S-0380	HGL038-S-0380	NA	NA	NA	NA
3/8	16	F	HG-DC0380	HG038-S-0500	HGL038-S-0500	HG038-90-0500	HGL038-90-0500	HG038-45-0500	NA
1/2	21	F	HG-DC0500	HG050-S-0500	HGL050-S-0500	HG050-90-0500	HGL050-90-0500	HG050-45-0500	HGL050-45-0500
3/4	28	F	HG-DC0750	HG075-S-0750	HGL075-S-0750	HG075-90-0750	HGL075-90-0750	HG075-45-0750	HGL075-45-0750
1	34	C	HG-DC1000	HG100-S-1000	HGL100-S-1000	HG100-90-1000	HGL100-90-1000	HG100-45-1000	HGL100-45-1000
1-1/4	42	C	HG-DC1250	HG125-S-1250	HGL125-S-1250	HG125-90-1250	HGL125-90-1250	NA	NA
1-1/4	42	C	HG-DC1250	HG125-S-1500	NA	HG125-90-1500	NA	NA	NA
1-1/2	54	C	HG-DC1500	HG150-S-1500	HGL150-S-1500	HG150-90-1500	HGL150-90-1500	HG150-45-1500	HGL150-45-1500
1-1/2	54	C	HG-DC1500	HG150-S-2000	NA	NA	NA	NA	NA

Appendix

Product Selection Guide





Corrugated Conduits				Connectors and Dividers			Snap-On Nylon Fittings with Brass External Swivel Thread				
Nominal Size		Pitch	Conduit	T-Connectors		Y-Dividers	Straight External Metric Thread		90° Elbow External Metric Thread		
Inches	mm	F or C	Type	IP66	IP68	IP66	IP66	IP68	IP66	IP68	
1/4	10	F	HG-SW025x	NA	NA	NA	NA	NA	NA	NA	
5/16	13	F	HG-SW031x	NA	NA	NA	NA	NA	NA	NA	
3/8	16	F	HG-SW038x	HG038-T	HGL038-T	HG038-Y031-Y031	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	
3/8	16	F	HG-SW038x	HG038-T	HGL038-T	HG038-Y031-Y031	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	
1/2	21	F	HG-SW050x	HG050-T	HGL050-T	HG050-Y038-Y038	HG050-SM-M20	HGL050-SM-M20	HG050-90M-M20	HGL050-90M-M20	
3/4	28	F	HG-SW075x	HG075-T	HGL075-T	HG075-Y050-Y050	HG075-SM-M25	HGL075-SM-M25	HG075-90M-M25	HGL075-90M-M25	
1	34	C	HG-SW100x	HG100-T	HGL100-T	HG100-Y075-Y075	HG100-SM-M32	HGL100-SM-M32	HG100-90M-M32	HGL100-90M-M32	
1-1/4	42	C	HG-SW125x	HG125-T	HGL125-T	NA	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	
1-1/4	42	C	HG-SW125x	HG125-T	HGL125-T	NA	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	
1-1/2	54	C	HG-SW150x	NA	NA	NA	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	
1-1/2	54	C	HG-SW150x	NA	NA	NA	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	
2	67	C	HG-SW200x	NA	NA	NA	NA	NA	NA	NA	
1/4	10	F	HG-LW0250	NA	NA	NA	NA	NA	NA	NA	
3/8	16	F	HG-LW0380	HG038-T	HGL038-T	HG038-Y031-Y031	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	
3/8	16	F	HG-LW0380	HG038-T	HGL038-T	HG038-Y031-Y031	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	
1/2	21	F	HG-LW0500	HG050-T	HGL050-T	HG050-Y038-Y038	HG050-SM-M20	HGL050-SM-M20	HG050-90M-M20	HGL050-90M-M20	
3/4	28	F	HG-LW0750	HG075-T	HGL075-T	HG075-Y050-Y050	HG075-SM-M25	HGL075-SM-M25	HG075-90M-M25	HGL075-90M-M25	
1	34	C	HG-LW1000	HG100-T	HGL100-T	HG100-Y075-Y075	HG100-SM-M32	HGL100-SM-M32	HG100-90M-M32	HGL100-90M-M32	
1-1/4	42	C	HG-LW1250	HG125-T	HGL125-T	NA	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	
1-1/4	42	C	HG-LW1250	HG125-T	HGL125-T	NA	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	
1-1/2	54	C	HG-LW1500	NA	NA	NA	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	
1-1/2	54	C	HG-LW1500	NA	NA	NA	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	
2	67	C	HG-LW2000	NA	NA	NA	NA	NA	NA	NA	
3/8	16	F	HG-FR0380	HG038-T	HGL038-T	HG038-Y031-Y031	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	
3/8	16	F	HG-FR0380	HG038-T	HGL038-T	HG038-Y031-Y031	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	
1/2	21	F	HG-FR0500	HG050-T	HGL050-T	HG050-Y038-Y038	HG050-SM-M20	HGL050-SM-M20	HG050-90M-M20	HGL050-90M-M20	
3/4	28	F	HG-FR0750	HG075-T	HGL075-T	HG075-Y050-Y050	HG075-SM-M25	HGL075-SM-M25	HG075-90M-M25	HGL075-90M-M25	
1	34	C	HG-FR1000	HG100-T	HGL100-T	HG100-Y075-Y075	HG100-SM-M32	HGL100-SM-M32	HG100-90M-M32	HGL100-90M-M32	
1-1/4	42	C	HG-FR1250	HG125-T	HGL125-T	NA	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	
1-1/4	42	C	HG-FR1250	HG125-T	HGL125-T	NA	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	
1-1/2	54	C	HG-FR1500	NA	NA	NA	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	
1-1/2	54	C	HG-FR1500	NA	NA	NA	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	
5/16	13	F	HG-HI0310	NA	NA	NA	NA	NA	NA	NA	
3/8	16	F	HG-HI0380	HG038-T	HGL038-T	HG038-Y031-Y031	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	
3/8	16	F	HG-HI0380	HG038-T	HGL038-T	HG038-Y031-Y031	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	
1/2	21	F	HG-HI0500	HG050-T	HGL050-T	HG050-Y038-Y038	HG050-SM-M20	HGL050-SM-M20	HG050-90M-M20	HGL050-90M-M20	
3/4	28	F	HG-HI0750	HG075-T	HGL075-T	HG075-Y050-Y050	HG075-SM-M25	HGL075-SM-M25	HG075-90M-M25	HGL075-90M-M25	
1	34	C	HG-HI1000	HG100-T	HGL100-T	HG100-Y075-Y075	HG100-SM-M32	HGL100-SM-M32	HG100-90M-M32	HGL100-90M-M32	
1-1/4	42	C	HG-HI1250	HG125-T	HGL125-T	NA	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	
1-1/4	42	C	HG-HI1250	HG125-T	HGL125-T	NA	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	
1-1/2	54	C	HG-HI1500	NA	NA	NA	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	
1-1/2	54	C	HG-HI1500	NA	NA	NA	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	
2	67	C	HG-HI2000	NA	NA	NA	NA	NA	NA	NA	
3/8	16	F	HG-DC0380	HG038-T	HGL038-T	HG038-Y031-Y031	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	
3/8	16	F	HG-DC0380	HG038-T	HGL038-T	HG038-Y031-Y031	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	
1/2	21	F	HG-DC0500	HG050-T	HGL050-T	HG050-Y038-Y038	HG050-SM-M20	HGL050-SM-M20	HG050-90M-M20	HGL050-90M-M20	
3/4	28	F	HG-DC0750	HG075-T	HGL075-T	HG075-Y050-Y050	HG075-SM-M25	HGL075-SM-M25	HG075-90M-M25	HGL075-90M-M25	
1	34	C	HG-DC1000	HG100-T	HGL100-T	HG100-Y075-Y075	HG100-SM-M32	HGL100-SM-M32	HG100-90M-M32	HGL100-90M-M32	
1-1/4	42	C	HG-DC1250	HG125-T	HGL125-T	NA	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	
1-1/4	42	C	HG-DC1250	HG125-T	HGL125-T	NA	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	
1-1/2	54	C	HG-DC1500	NA	NA	NA	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	
1-1/2	54	C	HG-DC1500	NA	NA	NA	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	

Appendix

Cutting and Assembly Guide

Flexible PVC Tubings				Compression Style Fittings			
Nominal Size		Surface	Tubing	Non-Metallic Compression Style Fittings			Nickel Plated Brass Compression Fitting
Inches	mm		Type	Straight	90 Elbow	45 Elbow	Straight
3/8	16	Spiral	PSR0380	PSR038-S-0380	PSR038-90-0500	PSR038-45-0500	NA
1/2	20	Spiral	PSR0500	PSR050-S-0500	PSR050-90-0500	PSR050-45-0500	NA
3/4	25	Spiral	PSR0750	PSR075-S-0750	PSR075-90-0750	PSR075-45-0750	NA
1	32	Spiral	PSR1000	PSR100-S-1000	PSR100-90-1000	PSR100-45-1000	NA
1-1/4	40	Spiral	PSR1250	PSR125-S-1250	PSR125-90-1250	NA	NA
1-1/2	50	Spiral	PSR1500	PSR150-S-1500	NA	NA	NA
2	63	Spiral	PSR2000	PSR200-S-2000	NA	NA	NA
3/8	16	Smooth	LPC0380	PSR038-S-0380	PSR038-90-0500	PSR038-45-0500	LPC038-S-050
1/2	20	Smooth	LPC0500	PSR050-S-0500	PSR050-90-0500	PSR050-45-0500	LPC050-S-050
3/4	25	Smooth	LPC0750	PSR075-S-0750	PSR075-90-0750	PSR075-45-0750	LPC075-S-075
1	32	Smooth	LPC1000	PSR100-S-1000	PSR100-90-1000	PSR100-45-1000	LPC100-S-100
1-1/4	40	Smooth	LPC1250	PSR125-S-1250	PSR125-90-1250	NA	LPC125-S-125
1-1/2	50	Smooth	LPC1500	PSR150-S-1500	NA	NA	LPC150-S-150
2	63	Smooth	LPC2000	PSR200-S-2000	NA	NA	LPC200-S--0200

				Accessories			
Nominal Size		Surface	Tubing	Thread Style	NPT Thread Locknuts		AFCP Clips
Inches	mm		Type	NPT	Nylon PA66	Nickel Plated Brass	Nylon PA66
3/8	16	Spiral	PSR0380	3/8	ALPA0380	ALNPB-0380	AFCP0380
1/2	20	Spiral	PSR0500	1/2	ALPA0500	ALNPB-0500	AFCP0500
3/4	25	Spiral	PSR0750	3/4	ALPA0750	ALNPB-0750	AFCP0750
1	32	Spiral	PSR1000	1	ALPA1000	ALNPB-1000	AFCP1000
1-1/4	40	Spiral	PSR1250	1-1/4	NA	ALNPB-1250	NA
1-1/2	50	Spiral	PSR1500	1-1/2	NA	ALNPB-1500	NA
2	63	Spiral	PSR2000	2	NA	ALNPB-2000	NA
3/8	16	Smooth	LPC0380	3/8	ALPA0380	ALNPB-0380	AFCP0380
1/2	20	Smooth	LPC0500	1/2	ALPA0500	ALNPB-0500	AFCP0500
3/4	25	Smooth	LPC0750	3/4	ALPA0750	ALNPB-0750	AFCP0750
1	32	Smooth	LPC1000	1	ALPA1000	ALNPB-1000	AFCP1000
1-1/4	40	Smooth	LPC1250	1-1/4	NA	ALNPB-1250	NA
1-1/2	50	Smooth	LPC1500	1-1/2	NA	ALNPB-1500	NA
2	63	Smooth	LPC2000	2	NA	ALNPB-2000	NA

Cutting Conduit		
<p>Non-Metallic</p>		<p>ConCutter Conduit Cutters can be used to cut HelaGuard non-metallic conduit up to 2" (67mm).</p> <p>To use: Drop the blade into a corrugation and squeeze and twist until conduit is cut 50% through. To achieve a clean edge, finish cutting the remaining 50% without twisting.</p> <p>See page 40 for tool size options.</p>
Non-Metallic Fittings		
		<p>Snap-on fittings are quick to assemble, once conduit has been cut to length.</p>
<p>HG</p>		<p>For HG fittings, simply push the fitting onto the end of the conduit with a slight twist, until it will go no further. Once in place, pull back slightly to ensure the locking teeth mechanism has engaged with the corrugations.</p>
<p>HGL</p>		<p>HGL fittings feature a conduit seal to provide the ultimate IP rating, up to IP68.</p> <p>To install: Moisten the seal, then place the seal on the end of the conduit, and press firmly until the seal slides inside. Put the fitting onto the conduit end and twist. Once the fitting is in place, pull back slightly to ensure the locking teeth mechanism has engaged with the corrugations.</p> <p>Note: An HG fitting cannot be upgraded to IP68 with the addition of a seal.</p>

To remove HG or HGL fittings, insert a small screwdriver into the screwdriver slot and move the screwdriver handle towards the "off" position. Remove the screwdriver, then manually twist the cap further towards the "off" position – the fitting can then be released from the conduit. Once removed, the fitting can be reused by twisting the cap so that the screwdriver slot lines up with the "on" position. See page 7 for step-by-step illustrations.

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CONCUTTER2	166-51102	41	HG100-45F-M32	166-90085	24	HG-HISL0750	166-90266	12
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FW25	166-90738	42	HG100-90FL	166-90146	26	HG-HISL1500	166-90269	12
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