

Cable Management Solutions



HelaGuard

Non-Metallic Conduits and Fittings

HellermannTyton



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Providing value through innovative products.

Who We Are

HellermannTyton is a leading, global manufacturer and supplier of cable management and protection products. Through product line differentiation and a systems approach to bringing new products to market, HellermannTyton offers solutions which improve the performance, quality and installed costs for the OEM, commercial and industrial markets. HellermannTyton's commitment and value to our customers is rooted in its culture of product innovation and providing distributors with the tools and products needed to succeed.



HelaGuard Non-Metallic Conduits & Fittings

HellermannTyton has expanded its flexible cable protection product offering to include the HelaGuard line of non-metallic conduits, fittings and accessories. Available in a range of styles, sizes and materials, HelaGuard conduits address a wide array of market needs and applications. Snap-on nylon fittings with NPT threads provide fast, easy installation and deliver liquid-tight installations from IP65 to IP68 classifications. HelaGuard is an innovative system that provides a highly versatile and lightweight solution for flexible cable management protection needs.



Helagaard Non-Metallic Conduits

The self-extinguishing, halogen free Helagaard 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 Helagaard nylon conduits are UL recognized components.

Helagaard Non-Metallic Fittings

When fast installation and security is required, Helagaard nylon fittings provide superior tensile strength with a simple snap-on and twist motion. All Helagaard 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, changes, 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.





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



Example

Fittings: HGL075-S-0750



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)

Color	
0	Black

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

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
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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Conduit Application Overview

Conduit System	HG-SW PA6 corrugated, standard weight	HG-LW PA6 corrugated, lightweight	HG-FR Çame 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	13	14	16	17	18	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

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.



HelaGuard Standard Weight for industrial applications.

Material Data	
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



Product Selection													
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													
166-90190	3/8	(16.0)	F (Fine)	HG-SW0380	0.63	(15.8)	0.47	(11.8)	1.38	(35.0)	Black	100	(30.5)
166-90191	1/2	(21.0)	F (Fine)	HG-SW0500	0.84	(21.2)	0.66	(16.7)	1.78	(45.0)	Black	100	(30.5)
166-90192	3/4	(28.0)	F (Fine)	HG-SW0750	1.13	(28.5)	0.90	(22.8)	1.97	(50.0)	Black	100	(30.5)
166-90193	1	(34.0)	C (Coarse)	HG-SW1000	1.36	(34.5)	1.11	(28.1)	2.36	(60.0)	Black	50	(15.2)
166-90194	1-1/4	(42.0)	C (Coarse)	HG-SW1250	1.68	(42.5)	1.40	(35.5)	2.76	(70.0)	Black	50	(15.2)
166-90195	1-1/2	(54.0)	C (Coarse)	HG-SW1500	2.15	(54.5)	1.86	(47.2)	3.15	(80.0)	Black	50	(15.2)
Slit Conduit													
166-90270	3/8	(16.0)	F (Fine)	HG-SWSL0380	0.63	(15.8)	0.47	(11.8)	1.38	(35.0)	Black	100	(30.5)
166-90271	1/2	(21.0)	F (Fine)	HG-SWSL0500	0.84	(21.2)	0.66	(16.7)	1.78	(45.0)	Black	100	(30.5)
166-90272	3/4	(28.0)	F (Fine)	HG-SWSL0750	1.13	(28.5)	0.90	(22.8)	1.97	(50.0)	Black	100	(30.5)
166-90273	1	(34.0)	C (Coarse)	HG-SWSL1000	1.36	(34.5)	1.11	(28.1)	2.36	(60.0)	Black	50	(15.2)
166-90274	1-1/4	(42.0)	C (Coarse)	HG-SWSL1250	1.68	(42.5)	1.40	(35.5)	2.76	(70.0)	Black	50	(15.2)
166-90275	1-1/2	(54.0)	C (Coarse)	HG-SWSL1500	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 specification approvals, please contact HellermannTyton.

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-angle 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 angle 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 Data	
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



Product Selection											
Part No.	Nominal Size (Ø)		Pitch	Type	Outside Diameter Ø (OD)		Inside Diameter Ø (ID)		Inside Bend Radius		Package Quantity per Reel
	in	(mm)			in	(mm)	in	(mm)	in	(mm)	
166-90196	3/8	(16.0)	F (Fine)	HG-LW0380	0.63	(15.8)	0.48	(11.8)	1.38	(35.0)	100 (30.5)
166-90197	1/2	(21.0)	F (Fine)	HG-LW0500	0.84	(21.2)	0.67	(16.7)	1.58	(40.0)	100 (30.5)
166-90198	3/4	(28.0)	F (Fine)	HG-LW0750	1.13	(28.5)	0.91	(23.0)	1.78	(45.0)	100 (30.5)
166-90199	1	(34.0)	C (Coarse)	HG-LW1000	1.36	(34.5)	1.12	(28.1)	2.17	(55.0)	50 (15.2)
166-90200	1-1/4	(42.0)	C (Coarse)	HG-LW1250	1.68	(42.5)	1.41	(35.5)	2.56	(65.0)	50 (15.2)
166-90201	1-1/2	(54.0)	C (Coarse)	HG-LW1500	2.15	(54.5)	1.87	(47.2)	3.15	(80.0)	50 (15.2)

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



Please note: For product specification 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 Data

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



Product Selection

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 specification approvals, please contact HellermannTyton.

HelaGuard Non-Metallic Conduits

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 Data

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



Product Selection

Product Selection																					
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																					
166-90208	3/8	(16.0)	F (Fine)	HG-HI0380	0.63	(15.8)	0.47	(11.8)	1.19	(30.0)	Black	100	(30.5)								
166-90209	1/2	(21.0)	F (Fine)	HG-HI0500	0.84	(21.2)	0.66	(16.7)	1.38	(35.0)	Black	100	(30.5)								
166-90210	3/4	(28.0)	C (Coarse)	HG-HI0750	1.13	(28.5)	0.86	(21.7)	1.78	(45.0)	Black	100	(30.5)								
166-90211	1	(34.0)	C (Coarse)	HG-HI1000	1.36	(34.5)	1.11	(28.1)	2.17	(55.0)	Black	50	(15.2)								
166-90212	1-1/4	(42.0)	C (Coarse)	HG-HI1250	1.68	(42.5)	1.40	(35.5)	2.36	(60.0)	Black	50	(15.2)								
166-90213	1-1/2	(54.0)	C (Coarse)	HG-HI1500	2.15	(54.5)	1.86	(47.2)	2.76	(70.0)	Black	50	(15.2)								
Slit Conduit																					
166-90264	3/8	(16.0)	F (Fine)	HG-HISL0380	0.63	(15.8)	0.47	(11.8)	1.19	(30.0)	Black	100	(30.5)								
166-90265	1/2	(21.0)	F (Fine)	HG-HISL0500	0.84	(21.2)	0.66	(16.7)	1.38	(35.0)	Black	100	(30.5)								
166-90266	3/4	(28.0)	C (Coarse)	HG-HISL0750	1.13	(28.5)	0.86	(21.7)	1.78	(45.0)	Black	100	(30.5)								
166-90267	1	(34.0)	C (Coarse)	HG-HISL1000	1.36	(34.5)	1.11	(28.1)	2.17	(55.0)	Black	50	(15.2)								
166-90268	1-1/4	(42.0)	C (Coarse)	HG-HISL1250	1.68	(42.5)	1.40	(35.5)	2.36	(60.0)	Black	50	(15.2)								
166-90269	1-1/2	(54.0)	C (Coarse)	HG-HISL1500	2.15	(54.5)	1.86	(47.2)	2.76	(70.0)	Black	50	(15.2)								

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



Please note: For product specification 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 Data	
Material	Polyamide 6 (PA6)
Operating Temperature	-40°F to +248°F (-40°C to +120°C)
Flammability	Self-extinguishing according to EN IEC 61386



Product Selection													
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.

HelaGuard Non-Metallic Fittings Guide

- 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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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

Product Selection							
Part No.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Package Quantity
	in	(mm)		in	(mm)		(pk)
IP66							
166-90103	3/8	(16.0)	HG038-S-0380	0.43	(11.0)	Black	10
166-90104	1/2	(21.0)	HG050-S-0500	0.57	(14.5)	Black	10
166-90105	3/4	(28.0)	HG075-S-0750	0.76	(19.3)	Black	10
166-90106	1	(34.0)	HG100-S-1000	1.04	(26.5)	Black	10
166-90107	1-1/4	(42.0)	HG125-S-1250	1.28	(32.5)	Black	2
166-90108	1-1/2	(54.0)	HG150-S-1500	1.65	(42.0)	Black	2
IP68							
166-90118	3/8	(16.0)	HGL038-S-0380	0.43	(11.0)	Black	10
166-90119	1/2	(21.0)	HGL050-S-0500	0.57	(14.5)	Black	10
166-90120	3/4	(28.0)	HGL075-S-0750	0.76	(19.3)	Black	10
166-90121	1	(34.0)	HGL100-S-1000	1.04	(26.5)	Black	10
166-90122	1-1/4	(42.0)	HGL125-S-1250	1.28	(32.5)	Black	2
166-90123	1-1/2	(54.0)	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 Data	
Material	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



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



Please note: For product specification 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

Product Selection							
Part No.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Package Quantity
	in	(mm)		in	(mm)		(pk)
IP66							
166-90098	1/2	(21.0)	HG050-90-0500	0.55	(14.0)	Black	10
166-90099	3/4	(28.0)	HG075-90-0750	0.75	(19.0)	Black	10
166-90100	1	(34.0)	HG100-90-1000	0.97	(24.5)	Black	10
166-90101	1-1/4	(42.0)	HG125-90-1250	1.28	(32.5)	Black	2
166-90102	1-1/2	(54.0)	HG150-90-1500	1.54	(39.0)	Black	2
IP68							
166-90113	1/2	(21.0)	HGL050-90-0500	0.55	(14.0)	Black	10
166-90114	3/4	(28.0)	HGL075-90-0750	0.75	(19.0)	Black	10
166-90115	1	(34.0)	HGL100-90-1000	0.97	(24.5)	Black	10
166-90116	1-1/4	(42.0)	HGL125-90-1250	1.28	(32.5)	Black	2
166-90117	1-1/2	(54.0)	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 Data	
Material	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



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



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

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

Product Selection							
Part No.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Package Quantity
	in	(mm)		in	(mm)		(pk)
IP66							
166-90094	1/2	(21.0)	HG050-45-0500	0.55	(14.0)	Black	10
166-90095	3/4	(28.0)	HG075-45-0750	0.75	(19.0)	Black	10
166-90096	1	(34.0)	HG100-45-1000	0.96	(24.5)	Black	10
166-90097	1-1/2	(54.0)	HG150-45-1500	1.54	(39.0)	Black	2
IP68							
166-90109	1/2	(21.0)	HGL050-45-0500	0.55	(14.0)	Black	10
166-90110	3/4	(28.0)	HGL075-45-0750	0.75	(19.0)	Black	10
166-90111	1	(34.0)	HGL100-45-1000	0.96	(24.5)	Black	10
166-90112	1-1/2	(54.0)	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 Data	
Material	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



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



Please note: For product specification 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

Product Selection								
Part No.	Nominal Size (Ø)		Type	Thread Type	Bore Hole (Ø)		Color	Package Quantity
	in	(mm)			in	(mm)		(pk)
IP66								
166-90022	3/8	(16.0)	HG038-SM-M16	M16	0.43	(11.0)	Black	10
166-90023	1/2	(21.0)	HH050-SM-M20	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 metric threads sold separately. See page 39.

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



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 Fitting 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

Product Selection

Product Selection		Nominal Size (Ø)		Type	Thread Size	Bore Hole (Ø)		Color	Package Quantity
Part No.	in (mm)		in (mm)			(pk)			
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 metric threads sold separately. See page 39.

Material Data

Material	Polyamide 6.6 (PA66); Nickel Plated Brass (NFB)
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

Product Selection								
Part No.	Nominal Size (Ø)		Type	Thread Size	Bore Hole (Ø)		Color	Package Quantity
	in	(mm)			in	(mm)		(pk)
IP66								
166-90046	3/8	(16.0)	HG038-45M-M16	M16	0.55	(14.0)	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	0.55	(14.0)	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 metric threads sold separately. See page 39.

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



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 Fitting 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

Product Selection

Product Selection		Nominal Size (Ø)	Type	Thread Size	Bore Hole (Ø)		Color	Package Quantity
Part No.	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 Data

Material	Polyamide 6.6 (PA66); Nickel Plated Brass (NFB)
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

Product Selection								
Part No.	Nominal Size (Ø)		Type	Thread Size	Bore Hole (Ø)		Color	Package Quantity
	in	(mm)			in	(mm)		(pk)
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 Data	
Material	Polyamide 6.6 (PA66); Nickel Plated Brass (NFB)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



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 Fitting 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

Product Selection

Product Selection		Nominal Size (Ø)		Type	Thread Size	Bore Hole (Ø)		Color	Package Quantity
Part No.	in (mm)					in (mm)	(pk)		
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 Data

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

Product Selection							
Part No.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Package Quantity
	in	(mm)		in	(mm)		(pk)
IP66							
166-90148	3/8	(16.0)	HG038-SFL	0.57	(14.5)	Black	10
166-90149	1/2	(21.0)	HG050-SFL	0.57	(14.5)	Black	10
166-90150	3/4	(28.0)	HG075-SFL	0.77	(19.5)	Black	10
166-90151	1	(34.0)	HG100-SFL	1.04	(26.5)	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	0.57	(14.5)	Black	10
166-90165	3/4	(28.0)	HGL075-SFL	0.77	(19.5)	Black	10
166-90166	1	(34.0)	HGL100-SFL	1.04	(26.5)	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 Data	
Material	Polyamide 6.6 (PA66)
Operating Temperature	-58°F to +275°F (-50°C to +135°C)
Flammability	UL94 V2



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

Product Selection

Product Selection							
Part No.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Package Quantity
	in	(mm)		in	(mm)		(pk)
IP66							
166-90143	3/8	(16.0)	HG038-90FL	0.55	(14.0)	Black	10
166-90144	1/2	(21.0)	HG050-90FL	0.55	(14.0)	Black	10
166-90145	3/4	(28.0)	HG075-90FL	0.75	(19.0)	Black	10
166-90146	1	(34.0)	HG100-90FL	0.96	(24.5)	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	0.55	(14.0)	Black	10
166-90160	3/4	(28.0)	HGL075-90FL	0.75	(19.0)	Black	10
166-90161	1	(34.0)	HGL100-90FL	0.96	(24.5)	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 Data

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

Product Selection					
Part No.	Nominal Size (Ø)		Bore Hole (Ø)		Package Quantity
	in	(mm)	Type	in (mm)	Color (pk)
IP66					
166-90138	3/8	(16.0)	HG038-45FL	0.55 (14.0)	Black 10
166-90139	1/2	(21.0)	HG050-45FL	0.55 (14.0)	Black 10
166-90140	3/4	(28.0)	HG075-45FL	0.75 (19.0)	Black 10
166-90141	1	(34.0)	HG100-45FL	0.96 (24.5)	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	0.55 (14.0)	Black 10
166-90155	3/4	(28.0)	HGL075-45FL	0.75 (19.0)	Black 10
166-90156	1	(34.0)	HGL100-45FL	0.96 (24.5)	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 Data

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



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

Product Selection

Product Selection		Nominal Size (Ø)		Type	Color	Package Quantity
Part No.	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 Data

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



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

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 coarse 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 Data

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



Product Selection

Product Selection		From Nominal Size (Ø)		To Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Package Quantity	
		in	(mm)	in	(mm)		in	(mm)		(pk)	
Part No.											
IP66											
166-90230		3/8	(16.0)	3/8	(16.0)	HG038-HG038		0.43	(11.0)	Black	10
166-90231		1/2	(21.0)	1/2	(21.0)	HG050-HG050		0.57	(14.5)	Black	10
166-90232		3/4	(28.0)	3/4	(28.0)	HG075-HG075		0.77	(19.5)	Black	10
166-90233		1	(34.0)	1	(34.0)	HG100-HG100		1.04	(26.5)	Black	10
166-90234		1-1/2	(54.0)	1-1/2	(54.0)	HG150-HG150		1.65	(42.0)	Black	2

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



Please note: For product specification 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 (size being reduced to)	
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 (size being reduced from)	
050	= 1/2" (21mm)
075	= 3/4" (28mm)
100	= 1" (34mm)
125	= 1-1/4" (40mm)

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 coarse 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

Product Selection

Product Selection	Nominal Size (Ø)		Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Package Qty
	To in	From in	To mm	From mm		in	(mm)		(pk)
Part No.									
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	28.0	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	34.0	HG050-R100	0.69	(17.5)	Black	5
166-90005	3/4		28.0	34.0	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	42.0	HG075-R125	1.01	(25.7)	Black	5
166-90008	1		34.0	42.0	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	28.0	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	34.0	HGL050-R100	0.69	(17.5)	Black	5
166-90014	3/4		28.0	34.0	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	42.0	HGL075-R125	1.01	(25.7)	Black	5
166-90017	1		34.0	42.0	HGL100-R125	1.24	(31.5)	Black	5

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

Material Data

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



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 Data

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

Product Selection

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	(16.0)	PSR0380	0.65	(16.5)	0.48	(12.0)	0.99	(25.0)	Black	100	(30.5)
166-90221	1/2	(20.0)	PSR0500	0.83	(21.0)	0.63	(16.0)	1.38	(35.0)	Black	100	(30.5)
166-90222	3/4	(25.0)	PSR0750	1.09	(27.5)	0.87	(22.0)	1.78	(45.0)	Black	100	(30.5)
166-90223	1	(32.0)	PSR1000	1.32	(33.5)	1.11	(28.0)	2.36	(60.0)	Black	100	(30.5)
166-90224	1-1/4	(40.0)	PSR1250	1.62	(41.0)	1.38	(35.0)	3.15	(80.0)	Black	100	(30.5)

Use Part No. for ordering and Type for specification purposes.
See page 36 for compression fittings.



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

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 or Non Metallic Compression (PSR) Fittings for IP67 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 Data

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

Product Selection

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	(16.0)	LPC0380	0.70	(17.8)	0.47	(12.0)	1.97	(50.0)	Black	100	(30.5)
166-90248	1/2	(20.0)	LPC0500	0.83	(21.1)	0.63	(16.0)	2.76	(70.0)	Black	100	(30.5)
166-90249	3/4	(25.0)	LPC0750	1.04	(26.4)	0.83	(21.0)	3.54	(90.0)	Black	100	(30.5)
166-90250	1	(32.0)	LPC1000	1.30	(33.1)	1.04	(26.5)	5.51	(140.0)	Black	100	(30.5)
166-90251	1-1/4	(40.0)	LPC1250	1.65	(41.8)	1.39	(35.4)	7.48	(190.0)	Black	100	(30.5)

Use Part No. for ordering and Type for specification purposes.
See page 36 for compression fittings.

HelaGuard Compression Fittings

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 conduits and 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.

IP65



PSR-S Straight

IP65



PSR-90 90° Elbow

IP65



PSR-45 45° Elbow

Product Selection							
Part No.	Nominal Size (Ø)		Type	Bore Hole (Ø)		Color	Package Quantity
	in	(mm)		in	(mm)		(pk)
Straight							
166-90133	3/8	(16.0)	PSR038-S-0380	0.41	(10.5)	Black	10
166-90134	1/2	(20.0)	PSR050-S-0500	0.57	(14.5)	Black	10
166-90135	3/4	(25.0)	PSR075-S-0750	0.75	(19.0)	Black	10
166-90136	1	(32.0)	PSR100-S-1000	0.97	(24.5)	Black	10
166-90137	1-1/4	(40.0)	PSR125-S-1250	1.30	(33.0)	Black	2
90 Degree Elbow							
166-90128	3/8	(16.0)	PSR038-90-0500	0.41	(10.5)	Black	10
166-90129	1/2	(20.0)	PSR050-90-0500	0.57	(14.5)	Black	10
166-90130	3/4	(25.0)	PSR075-90-0750	0.75	(19.0)	Black	10
166-90131	1	(32.0)	PSR100-90-1000	0.97	(24.5)	Black	10
166-90132	1-1/4	(40.0)	PSR125-90-1250	1.30	(33.0)	Black	2
45 Degree Elbow							
166-90124	3/8	(16.0)	PSR038-45-0500	0.41	(10.5)	Black	10
166-90125	1/2	(20.0)	PSR050-45-0500	0.57	(14.5)	Black	10
166-90126	3/4	(25.0)	PSR075-45-0750	0.75	(19.0)	Black	10
166-90127	1	(32.0)	PSR100-45-1000	0.97	(24.5)	Black	10

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

Material Data

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



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

HelaGuard Accessories Guide

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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.
- Easy to install; reduces installation time.



PAEC Nylon End Cap

Product Selection		Nominal Size (Ø)		Type	Bore Hole (Ø)		Package Quantity
Part No.		in	(mm)		in	(mm)	
166-90184		3/8	(16.0)	PAEC0380	0.41	(10.5)	10
166-90185		1/2	(21.0)	PAEC0500	0.59	(15.0)	10
166-90186		3/4	(28.0)	PAEC0750	0.79	(20.0)	10
166-90187		1	(34.0)	PAEC1000	0.98	(25.0)	10
166-90188		1-1/4	(42.0)	PAEC1250	1.26	(32.0)	10
166-90189		1-1/2	(54.0)	PAEC1500	1.71	(43.5)	10

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

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



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.



REC Rubber End Cap

Product Selection		Nominal Size (Ø)		Type	Color	Package Quantity
Part No.		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.

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



Nickel Plated Brass Locknuts

ALNPB Series, Metric Thread

Locknuts work with metric threaded fittings or knockout entries.

Features and Benefits

- Nickel plated brass thread ensures secure connection with brass plated fittings.
- Metric thread pattern works with metric thread fittings.



ALNPB Nickel Plated Brass Locknut

Product Selection

Part No.	Type	Thread Size	Thickness		Wrenching Flats		Color	Package Quantity
			in	(mm)	in	(mm)		
166-50170	ALNPB-M16	M16	0.14	(3.5)	0.79	(20.0)	Metal	10
166-50171	ALNPB-M20	M20	0.14	(3.5)	0.95	(24.0)	Metal	10
166-50172	ALNPB-M25	M25	0.14	(3.5)	1.14	(29.0)	Metal	10
166-50173	ALNPB-M32	M32	0.18	(4.5)	1.50	(38.0)	Metal	2
166-50174	ALNPB-M40	M40	0.20	(5.0)	1.89	(48.0)	Metal	1
166-50175	ALNPB-M50	M50	0.24	(6.0)	2.28	(58.0)	Metal	1

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

Material Data

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

Product Selection

Part No.	Type	Thread Size	Thickness		Wrenching Flat Size		Color	Package Quantity
			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 Data

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



Clips for Corrugated Conduits

PACC Series

Conduit Clips clamp onto corrugated 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.
- Inner rib prevents conduit from slipping.
- Easy access mounting hole reduces installation time.
- Quick release for easy future access.



PACC Conduit Clip

Material Data

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



Product Selection					
Part No.	Nominal Size (Ø)		Type	Color	Package Quantity
	in	(mm)			(pk)
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.

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.



ConCutter Conduit Cutter

Product Selection				
Part No.	Type	Description	Package Quantity	
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.



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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, fibers, Qyings, dripping water, and external condensation of noncorrosive liquids.	Indoor use primarily to provide a degree of protection against circulating dust, lint, fibers and Qyings; 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 Qyings; 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

Appendix

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 (1m 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).
9k	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
Aluminium 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 j ttings)	HG-LW PA6 corrugated, lightweight (with HG j ttings)	HG-FR flame retardant corrugated, standard weight (with HGL j ttings)	HG-HI PA12 corrugated, standard weight (with HG j ttings)	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 ANSI/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

Product Selection Guide

Corrugated Conduits				Snap-On Fittings					
Nominal Size		Pitch	Conduit	Straight Nylon		90° Elbow Nylon		45° Nylon Elbow	
Inches	mm	For C	Type	IP66	IP68	IP66	IP68	IP66	IP68
3/8	16	F	HG-SW0380	HG038-S-0380	HGL038-S-0380	NA	NA	NA	NA
1/2	21	F	HG-SW0500	HG050-S-0500	HGL050-S-0500	HG050-90-0500	HGL050-90-0500	HG050-45-0500	HGL050-45-0500
3/4	28	F	HG-SW0750	HG075-S-0750	HGL075-S-0750	HG075-90-0750	HGL075-90-0750	HG075-45-0750	HGL075-45-0750
1	34	C	HG-SW1000	HG100-S-1000	HGL100-S-1000	HG100-90-1000	HGL100-90-1000	HG100-45-1000	HGL100-45-1000
1-1/4	42	C	HG-SW1250	HG125-S-1250	HGL125-S-1250	HG125-90-1250	HGL125-90-1250	NA	NA
1-1/2	54	C	HG-SW1500	HG150-S-1500	HGL150-S-1500	HG150-90-1500	HGL150-90-1500	HG150-45-1500	HGL150-45-1500
3/8	16	F	HG-LW0380	HG038-S-0380	HGL038-S-0380	NA	NA	NA	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
1-1/2	54	C	HG-LW1500	HG150-S-1500	HGL150-S-1500	HG150-90-1500	HGL150-90-1500	HG150-45-1500	HGL150-45-1500
3/8	16	F	HG-FR0380	HG038-S-0380	HGL038-S-0380	NA	NA	NA	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	C	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
1-1/2	54	C	HG-FR1500	HG150-S-1500	HGL150-S-1500	HG150-90-1500	HGL150-90-1500	HG150-45-1500	HGL150-45-1500
3/8	16	F	HG-HI0380	HG038-S-0380	HGL038-S-0380	NA	NA	NA	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
1-1/2	54	C	HG-HI1500	HG150-S-1500	HGL150-S-1500	HG150-90-1500	HGL150-90-1500	HG150-45-1500	HGL150-45-1500
3/8	16	F	HG-DC0380	HG038-S-0380	HGL038-S-0380	NA	NA	NA	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	C	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
1-1/2	54	C	HG-DC1500	HG150-S-1500	HGL150-S-1500	HG150-90-1500	HGL150-90-1500	HG150-45-1500	HGL150-45-1500

PSR Tubing				2-Piece Compression Fittings		
Nominal Size		Pitch	Tubing	Straight Nylon	90 Degree Elbow Nylon	45 Degree Elbow Nylon
Inches	mm		Type	IP65	IP65	IP65
3/8	16	—	PSR0380	PSR038-S-0380	PSR038-90-0500	PSR038-45-0500
1/2	20	—	PSR0500	PSR050-S-0500	PSR050-90-0500	PSR050-45-0500
3/4	25	—	PSR0750	PSR075-S-0750	PSR075-90-0750	PSR075-45-0750
1	32	—	PSR1000	PSR100-S-1000	PSR100-90-1000	PSR100-45-1000
1-1/4	40	—	PSR1250	PSR125-S-1250	PSR125-90-1250	NA

Snap-On Fittings							
Straight Nylon Swivel Range		90° Nylon Swivel Range		45° Nylon Swivel Range		T-Connectors	
IP66	IP68	IP66	IP68	IP66	IP68	IP66	IP68
HG038-SFL	HGL038-SFL	HG038-90FL	HGL038-90FL	HG038-45FL	HGL038-45FL	HG038-T	HGL038-T
HG050-SFL	HGL050-SFL	HG050-90FL	HGL050-90FL	HG050-45FL	HGL050-45FL	HG050-T	HGL050-T
HG075-SFL	HGL075-SFL	HG075-90FL	HGL075-90FL	HG075-45FL	HGL075-45FL	HG075-T	HGL075-T
HG100-SFL	HGL100-SFL	HG100-90FL	HGL100-90FL	HG100-45FL	HGL100-45FL	HG100-T	HGL100-T
HG125-SFL	HGL125-SFL	HG125-90FL	HGL125-90FL	HG125-45FL	HGL125-45FL	HG125-T	HGL125-T
NA	NA	NA	NA	NA	NA	NA	NA
HG038-SFL	HGL038-SFL	HG038-90FL	HGL038-90FL	HG038-45FL	HGL038-45FL	HG038-T	HGL038-T
HG050-SFL	HGL050-SFL	HG050-90FL	HGL050-90FL	HG050-45FL	HGL050-45FL	HG050-T	HGL050-T
HG075-SFL	HGL075-SFL	HG075-90FL	HGL075-90FL	HG075-45FL	HGL075-45FL	HG075-T	HGL075-T
HG100-SFL	HGL100-SFL	HG100-90FL	HGL100-90FL	HG100-45FL	HGL100-45FL	HG100-T	HGL100-T
HG125-SFL	HGL125-SFL	HG125-90FL	HGL125-90FL	HG125-45FL	HGL125-45FL	HG125-T	HGL125-T
NA	NA	NA	NA	NA	NA	NA	NA
HG038-SFL	HGL038-SFL	HG038-90FL	HGL038-90FL	HG038-45FL	HGL038-45FL	HG038-T	HGL038-T
HG050-SFL	HGL050-SFL	HG050-90FL	HGL050-90FL	HG050-45FL	HGL050-45FL	HG050-T	HGL050-T
HG075-SFL	HGL075-SFL	HG075-90FL	HGL075-90FL	HG075-45FL	HGL075-45FL	HG075-T	HGL075-T
HG100-SFL	HGL100-SFL	HG100-90FL	HGL100-90FL	HG100-45FL	HGL100-45FL	HG100-T	HGL100-T
HG125-SFL	HGL125-SFL	HG125-90FL	HGL125-90FL	HG125-45FL	HGL125-45FL	HG125-T	HGL125-T
NA	NA	NA	NA	NA	NA	NA	NA
HG038-SFL	HGL038-SFL	HG038-90FL	HGL038-90FL	HG038-45FL	HGL038-45FL	HG038-T	HGL038-T
HG050-SFL	HGL050-SFL	HG050-90FL	HGL050-90FL	HG050-45FL	HGL050-45FL	HG050-T	HGL050-T
HG075-SFL	HGL075-SFL	HG075-90FL	HGL075-90FL	HG075-45FL	HGL075-45FL	HG075-T	HGL075-T
HG100-SFL	HGL100-SFL	HG100-90FL	HGL100-90FL	HG100-45FL	HGL100-45FL	HG100-T	HGL100-T
HG125-SFL	HGL125-SFL	HG125-90FL	HGL125-90FL	HG125-45FL	HGL125-45FL	HG125-T	HGL125-T
NA	NA	NA	NA	NA	NA	NA	NA
HG038-SFL	HGL038-SFL	HG038-90FL	HGL038-90FL	HG038-45FL	HGL038-45FL	HG038-T	HGL038-T
HG050-SFL	HGL050-SFL	HG050-90FL	HGL050-90FL	HG050-45FL	HGL050-45FL	HG050-T	HGL050-T
HG075-SFL	HGL075-SFL	HG075-90FL	HGL075-90FL	HG075-45FL	HGL075-45FL	HG075-T	HGL075-T
HG100-SFL	HGL100-SFL	HG100-90FL	HGL100-90FL	HG100-45FL	HGL100-45FL	HG100-T	HGL100-T
HG125-SFL	HGL125-SFL	HG125-90FL	HGL125-90FL	HG125-45FL	HGL125-45FL	HG125-T	HGL125-T
NA	NA	NA	NA	NA	NA	NA	NA

LPCTubing				2-Piece Compression Fittings		
Nominal Size		Pitch	Tubing	Straight Nylon	90 Degree Elbow Nylon	45 Degree Elbow Nylon
Inches	mm		Type	IP65	IP65	IP65
3/8	16	—	LPC0380	PSR038-S-0380	PSR038-90-0500	PSR038-45-0500
1/2	20	—	LPC0500	PSR050-S-0500	PSR050-90-0500	PSR050-45-0500
3/4	25	—	LPC0750	PSR075-S-0750	PSR075-90-0750	PSR075-45-0750
1	32	—	LPC1000	PSR100-S-1000	PSR100-90-1000	PSR100-45-1000
1-1/4	40	—	LPC1250	PSR125-S-1250	PSR125-90-1250	NA

Product Selection Guide

Corrugated Conduits				Snap-On Nylon Fittings with Brass Swivel							
Nominal Size		Pitch	Conduit	Straight External Metric Thread		90° Elbow External Metric Thread		45° Elbow External Metric Thread		Straight Internal Metric Thread	
Inches	mm	For C	Type	IP66	IP68	IP66	IP68	IP66	IP68	IP66	IP68
3/8	16	F	HG-SW0380	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	HG038-45M-M16	HGL038-90M-M16	HG038-SF-M16	HGL038-SF-M16
1/2	21	F	HG-SW0500	HG050-SM-M20	HGL050-SM-M20	HG050-90M-M20	HGL050-90M-M20	HG050-45M-M20	HGL050-90M-M20	HG050-SF-M20	HGL050-SF-M20
3/4	28	F	HG-SW0750	HG075-SM-M25	HGL075-SM-M25	HG075-90M-M25	HGL075-90M-M25	HG075-45M-M25	HGL075-90M-M25	HG075-SF-M25	HGL075-SF-M25
1	34	C	HG-SW1000	HG100-SM-M32	HGL100-SM-M32	HG100-90M-M32	HGL100-90M-M32	HG100-45M-M32	HGL100-90M-M32	HG100-SF-M32	HGL100-SF-M32
1-1/4	42	C	HG-SW1250	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	HG125-45M-M40	HGL125-90M-M40	HG125-SF-M40	HGL125-SF-M40
1-1/2	54	C	HG-SW1500	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	HG150-45M-M50	HGL150-90M-M50	HG150-SF-M50	HGL150-SF-M50
3/8	16	F	HG-LW0380	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	HG038-45M-M16	HGL038-90M-M16	HG038-SF-M16	HGL038-SF-M16
1/2	21	F	HG-LW0500	HG050-SM-M20	HGL050-SM-M20	HG050-90M-M20	HGL050-90M-M20	HG050-45M-M20	HGL050-90M-M20	HG050-SF-M20	HGL050-SF-M20
3/4	28	F	HG-LW0750	HG075-SM-M25	HGL075-SM-M25	HG075-90M-M25	HGL075-90M-M25	HG075-45M-M25	HGL075-90M-M25	HG075-SF-M25	HGL075-SF-M25
1	34	C	HG-LW1000	HG100-SM-M32	HGL100-SM-M32	HG100-90M-M32	HGL100-90M-M32	HG100-45M-M32	HGL100-90M-M32	HG100-SF-M32	HGL100-SF-M32
1-1/4	42	C	HG-LW1250	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	HG125-45M-M40	HGL125-90M-M40	HG125-SF-M40	HGL125-SF-M40
1-1/2	54	C	HG-LW1500	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	HG150-45M-M50	HGL150-90M-M50	HG150-SF-M50	HGL150-SF-M50
3/8	16	F	HG-FR0380	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	HG038-45M-M16	HGL038-90M-M16	HG038-SF-M16	HGL038-SF-M16
1/2	21	F	HG-FR0500	HG050-SM-M20	HGL050-SM-M20	HG050-90M-M20	HGL050-90M-M20	HG050-45M-M20	HGL050-90M-M20	HG050-SF-M20	HGL050-SF-M20
3/4	28	C	HG-FR0750	HG075-SM-M25	HGL075-SM-M25	HG075-90M-M25	HGL075-90M-M25	HG075-45M-M25	HGL075-90M-M25	HG075-SF-M25	HGL075-SF-M25
1	34	C	HG-FR1000	HG100-SM-M32	HGL100-SM-M32	HG100-90M-M32	HGL100-90M-M32	HG100-45M-M32	HGL100-90M-M32	HG100-SF-M32	HGL100-SF-M32
1-1/4	42	C	HG-FR1250	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	HG125-45M-M40	HGL125-90M-M40	HG125-SF-M40	HGL125-SF-M40
1-1/2	54	C	HG-FR1500	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	HG150-45M-M50	HGL150-90M-M50	HG150-SF-M50	HGL150-SF-M50
3/8	16	F	HG-HI0380	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	HG038-45M-M16	HGL038-90M-M16	HG038-SF-M16	HGL038-SF-M16
1/2	21	F	HG-HI0500	HG050-SM-M20	HGL050-SM-M20	HG050-90M-M20	HGL050-90M-M20	HG050-45M-M20	HGL050-90M-M20	HG050-SF-M20	HGL050-SF-M20
3/4	28	F	HG-HI0750	HG075-SM-M25	HGL075-SM-M25	HG075-90M-M25	HGL075-90M-M25	HG075-45M-M25	HGL075-90M-M25	HG075-SF-M25	HGL075-SF-M25
1	34	C	HG-HI1000	HG100-SM-M32	HGL100-SM-M32	HG100-90M-M32	HGL100-90M-M32	HG100-45M-M32	HGL100-90M-M32	HG100-SF-M32	HGL100-SF-M32
1-1/4	42	C	HG-HI1250	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	HG125-45M-M40	HGL125-90M-M40	HG125-SF-M40	HGL125-SF-M40
1-1/2	54	C	HG-HI1500	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	HG150-45M-M50	HGL150-90M-M50	HG150-SF-M50	HGL150-SF-M50
3/8	16	F	HG-DC0380	HG038-SM-M16	HGL038-SM-M16	HG038-90M-M16	HGL038-90M-M16	HG038-45M-M16	HGL038-90M-M16	HG038-SF-M16	HGL038-SF-M16
1/2	21	F	HG-DC0500	HG050-SM-M20	HGL050-SM-M20	HG050-90M-M20	HGL050-90M-M20	HG050-45M-M20	HGL050-90M-M20	HG050-SF-M20	HGL050-SF-M20
3/4	28	C	HG-DC0750	HG075-SM-M25	HGL075-SM-M25	HG075-90M-M25	HGL075-90M-M25	HG075-45M-M25	HGL075-90M-M25	HG075-SF-M25	HGL075-SF-M25
1	34	C	HG-DC1000	HG100-SM-M32	HGL100-SM-M32	HG100-90M-M32	HGL100-90M-M32	HG100-45M-M32	HGL100-90M-M32	HG100-SF-M32	HGL100-SF-M32
1-1/4	42	C	HG-DC1250	HG125-SM-M40	HGL125-SM-M40	HG125-90M-M40	HGL125-90M-M40	HG125-45M-M40	HGL125-90M-M40	HG125-SF-M40	HGL125-SF-M40
1-1/2	54	C	HG-DC1500	HG150-SM-M50	HGL150-SM-M50	HG150-90M-M50	HGL150-90M-M50	HG150-45M-M50	HGL150-90M-M50	HG150-SF-M50	HGL150-SF-M50

Snap-On Nylon Fittings with Brass Swivel				Accessories				
90° Elbow Internal Metric Thread		45° Elbow Internal Metric Thread		PAOC Clips	PAEC End Caps	REC End Caps	Nylon NPT Locknuts	Nickel Plated Brass Metric Locknuts
IP66	IP68	IP66	IP68					
HG038-90F-M16	HGL038-90F-M16	HG038-45F-M16	HGL038-45F-M16	PAOC0380	PAEC0380	REC0380	ALPA0380	ALNPB-M16
HG050-90F-M20	HGL050-90F-M20	HG050-45F-M20	HGL050-45F-M20	PAOC0500	PAEC0500	REC0500	ALPA0500	ALNPB-M20
HG075-90F-M25	HGL075-90F-M25	HG075-45F-M25	HGL075-45F-M25	PAOC0750	PAEC0750	REC0750	ALPA0750	ALNPB-M25
HG100-90F-M32	HGL100-90F-M32	HG100-45F-M32	HGL100-45F-M32	PAOC1000	PAEC1000	REC1000	ALPA1000	ALNPB-M32
HG125-90F-M40	HGL125-90F-M40	HG125-45F-M40	HGL125-45F-M40	PAOC1250	PAEC1250	REC1250	NA	ALNPB-M40
HG150-90F-M50	HGL150-90F-M50	HG150-45F-M50	HGL150-45F-M50	PAOC1500	PAEC1500	REC1500	NA	ALNPB-M50
HG038-90F-M16	HGL038-90F-M16	HG038-45F-M16	HGL038-45F-M16	PAOC0380	PAEC0380	REC0380	ALPA0380	ALNPB-M16
HG050-90F-M20	HGL050-90F-M20	HG050-45F-M20	HGL050-45F-M20	PAOC0500	PAEC0500	REC0500	ALPA0500	ALNPB-M20
HG075-90F-M25	HGL075-90F-M25	HG075-45F-M25	HGL075-45F-M25	PAOC0750	PAEC0750	REC0750	ALPA0750	ALNPB-M25
HG100-90F-M32	HGL100-90F-M32	HG100-45F-M32	HGL100-45F-M32	PAOC1000	PAEC1000	REC1000	ALPA1000	ALNPB-M32
HG125-90F-M40	HGL125-90F-M40	HG125-45F-M40	HGL125-45F-M40	PAOC1250	PAEC1250	REC1250	NA	ALNPB-M40
HG150-90F-M50	HGL150-90F-M50	HG150-45F-M50	HGL150-45F-M50	PAOC1500	PAEC1500	REC1500	NA	ALNPB-M50
HG038-90F-M16	HGL038-90F-M16	HG038-45F-M16	HGL038-45F-M16	PAOC0380	PAEC0380	REC0380	ALPA0380	ALNPB-M16
HG050-90F-M20	HGL050-90F-M20	HG050-45F-M20	HGL050-45F-M20	PAOC0500	PAEC0500	REC0500	ALPA0500	ALNPB-M20
HG075-90F-M25	HGL075-90F-M25	HG075-45F-M25	HGL075-45F-M25	PAOC0750	PAEC0750	REC0750	ALPA0750	ALNPB-M25
HG100-90F-M32	HGL100-90F-M32	HG100-45F-M32	HGL100-45F-M32	PAOC1000	PAEC1000	REC1000	ALPA1000	ALNPB-M32
HG125-90F-M40	HGL125-90F-M40	HG125-45F-M40	HGL125-45F-M40	PAOC1250	PAEC1250	REC1250	NA	ALNPB-M40
HG150-90F-M50	HGL150-90F-M50	HG150-45F-M50	HGL150-45F-M50	PAOC1500	PAEC1500	REC1500	NA	ALNPB-M50
HG038-90F-M16	HGL038-90F-M16	HG038-45F-M16	HGL038-45F-M16	PAOC0380	PAEC0380	REC0380	ALPA0380	ALNPB-M16
HG050-90F-M20	HGL050-90F-M20	HG050-45F-M20	HGL050-45F-M20	PAOC0500	PAEC0500	REC0500	ALPA0500	ALNPB-M20
HG075-90F-M25	HGL075-90F-M25	HG075-45F-M25	HGL075-45F-M25	PAOC0750	PAEC0750	REC0750	ALPA0750	ALNPB-M25
HG100-90F-M32	HGL100-90F-M32	HG100-45F-M32	HGL100-45F-M32	PAOC1000	PAEC1000	REC1000	ALPA1000	ALNPB-M32
HG125-90F-M40	HGL125-90F-M40	HG125-45F-M40	HGL125-45F-M40	PAOC1250	PAEC1250	REC1250	NA	ALNPB-M40
HG150-90F-M50	HGL150-90F-M50	HG150-45F-M50	HGL150-45F-M50	PAOC1500	PAEC1500	REC1500	NA	ALNPB-M50
HG038-90F-M16	HGL038-90F-M16	HG038-45F-M16	HGL038-45F-M16	PAOC0380	PAEC0380	REC0380	ALPA0380	ALNPB-M16
HG050-90F-M20	HGL050-90F-M20	HG050-45F-M20	HGL050-45F-M20	PAOC0500	PAEC0500	REC0500	ALPA0500	ALNPB-M20
HG075-90F-M25	HGL075-90F-M25	HG075-45F-M25	HGL075-45F-M25	PAOC0750	PAEC0750	REC0750	ALPA0750	ALNPB-M25
HG100-90F-M32	HGL100-90F-M32	HG100-45F-M32	HGL100-45F-M32	PAOC1000	PAEC1000	REC1000	ALPA1000	ALNPB-M32
HG125-90F-M40	HGL125-90F-M40	HG125-45F-M40	HGL125-45F-M40	PAOC1250	PAEC1250	REC1250	NA	ALNPB-M40
HG150-90F-M50	HGL150-90F-M50	HG150-45F-M50	HGL150-45F-M50	PAOC1500	PAEC1500	REC1500	NA	ALNPB-M50
HG038-90F-M16	HGL038-90F-M16	HG038-45F-M16	HGL038-45F-M16	PAOC0380	PAEC0380	REC0380	ALPA0380	ALNPB-M16
HG050-90F-M20	HGL050-90F-M20	HG050-45F-M20	HGL050-45F-M20	PAOC0500	PAEC0500	REC0500	ALPA0500	ALNPB-M20
HG075-90F-M25	HGL075-90F-M25	HG075-45F-M25	HGL075-45F-M25	PAOC0750	PAEC0750	REC0750	ALPA0750	ALNPB-M25
HG100-90F-M32	HGL100-90F-M32	HG100-45F-M32	HGL100-45F-M32	PAOC1000	PAEC1000	REC1000	ALPA1000	ALNPB-M32
HG125-90F-M40	HGL125-90F-M40	HG125-45F-M40	HGL125-45F-M40	PAOC1250	PAEC1250	REC1250	NA	ALNPB-M40
HG150-90F-M50	HGL150-90F-M50	HG150-45F-M50	HGL150-45F-M50	PAOC1500	PAEC1500	REC1500	NA	ALNPB-M50

PSR Tubing			Accessories		
Nominal Size		Pitch	Tubing	REC End Caps	Nylon NPT Locknuts
Inches	mm		Type		
3/8	16	–	PSR0380	REC0380	ALPA0380
1/2	20	–	PSR0500	REC0500	ALPA0500
3/4	25	–	PSR0750	REC0750	ALPA0750
1	32	–	PSR1000	REC1000	ALPA1000
1-1/4	40	–	PSR1250	REC1250	NA

LPC Tubing			Accessories		
Nominal Size		Pitch	Tubing	REC End Caps	Nylon NPT Locknuts
Inches	mm		Type		
3/8	16	–	LPC0380	REC0380	NA
1/2	20	–	LPC0500	REC0500	NA
3/4	25	–	LPC0750	REC0750	NA
1	32	–	LPC1000	REC1000	NA
1-1/4	40	–	LPC1250	REC1250	NA

Cutting Conduit

Non-Metallic



ConCutter Conduit Cutters can be used to cut HelaGuard non-metallic conduit up to 2" (67mm).

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.

See page 40 for tool size options.

Non-Metallic Fittings



Snap-on fittings are quick to assemble, once conduit has been cut to length.

HG



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.

HGL



HGL fittings feature a conduit seal to provide the ultimate IP rating, up to IP68.

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.

Note: An HG fitting cannot be upgraded to IP68 with the addition of a seal.

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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