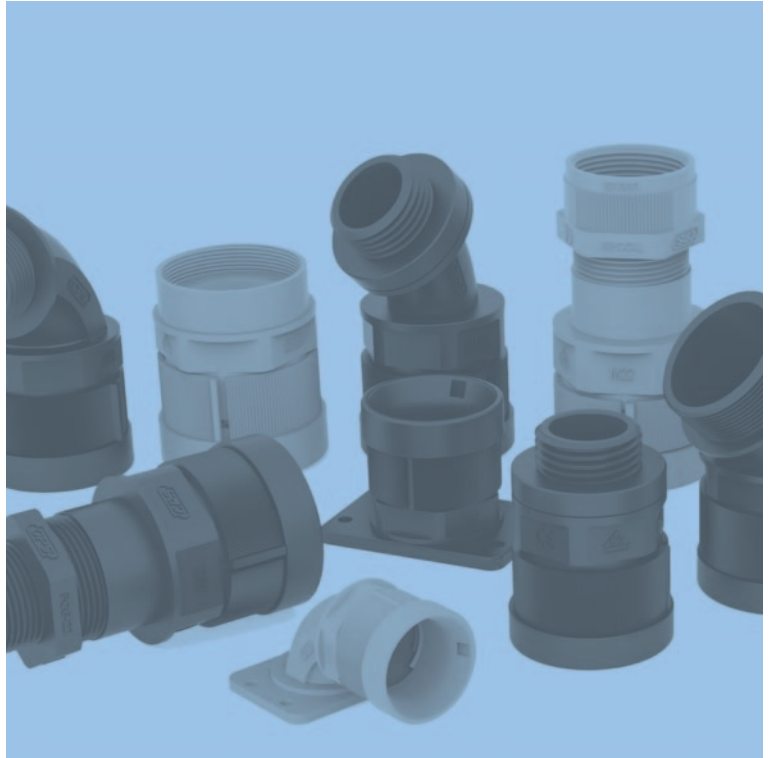


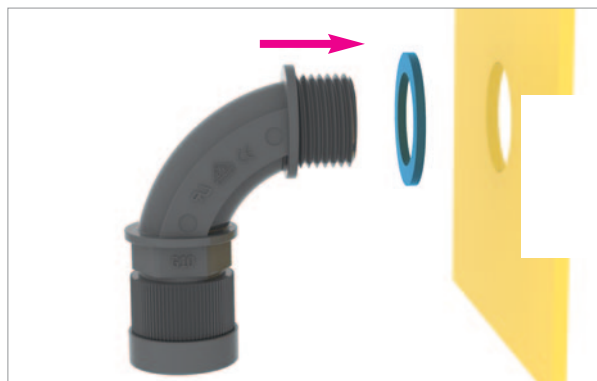
CPSFIX has a wide range of series to fit each different environment. It helps users to assemble and disassemble conveniently with its One-Touch Type of structure. In the meanwhile, CPSFIX can protect cables and hoses efficiently and has waterproof performance, which makes CPSFIX apply to general industrial sectors.



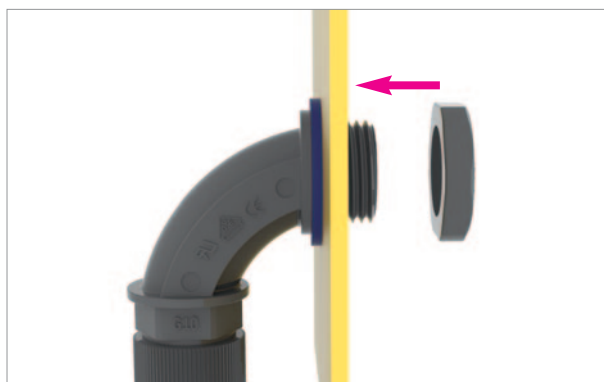
Installation Procedure of Connector



1 Prepare Connector, Rubber Washer(FWH), Nut(FLN/SLN) like in the Image



2 Insert Rubber Washer(FWH) at thread part of Connector



3 Place a Connector with Rubber Washer(FWH) at a plate and Insert Nut(FLN/SLN) to tight



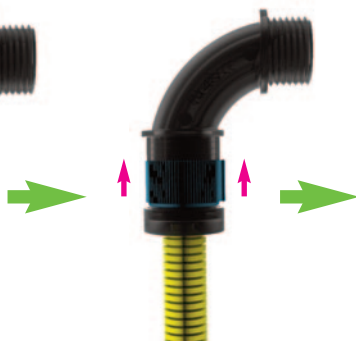
4 Completion

When you assemble Connector by using Nut, please rotate Nut until it is securely fixed. Do not rotate Connector part to prevent damage at Rubber Washer.

Assembly Procedure of Flexible Tube



① Insert Tube to Connector



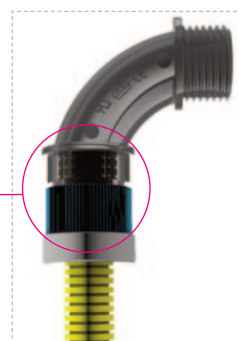
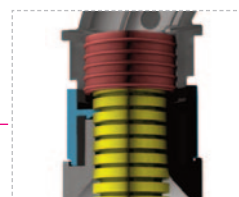
② Hand Cover moves up by inserting Flexible Tube



③ While grabbing extended Hand Cover and pull Flexible Tube down, Hand Cover is securely fixed

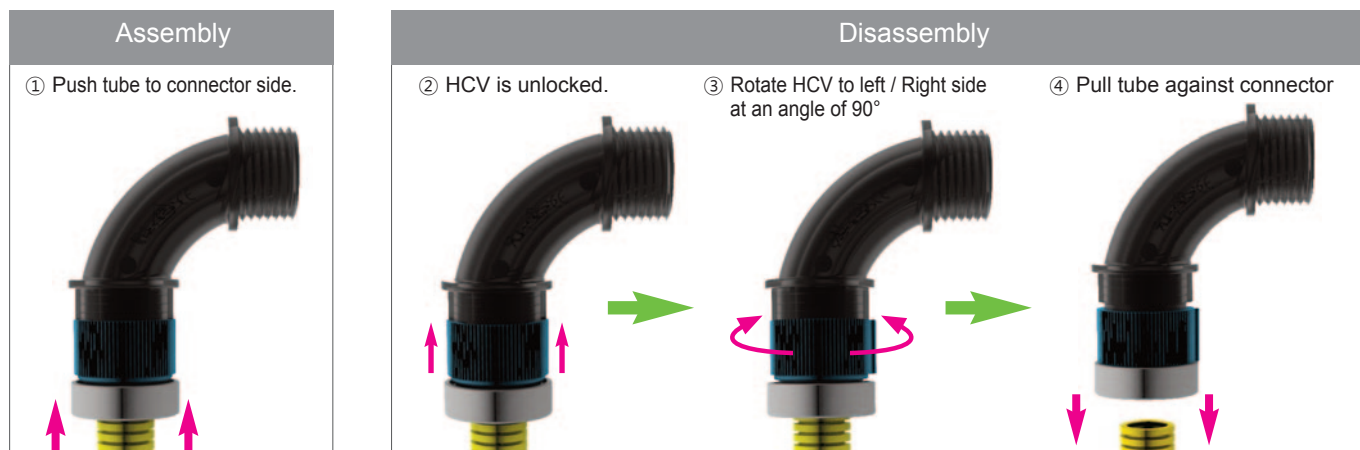


④ Completion

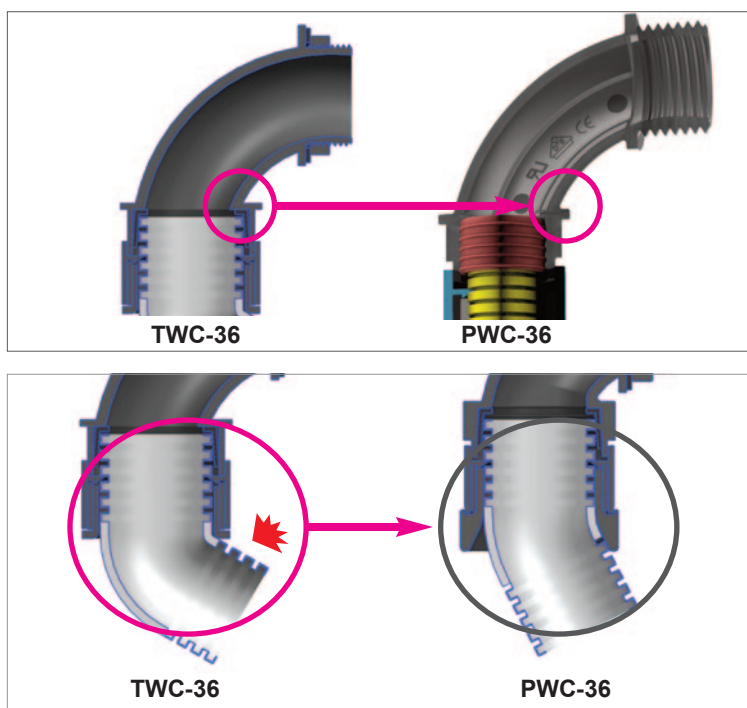


P Connector Series for Railroad cars

One Touch Connector for Convenient Assembly & Disassembly
No Special Tool Required



The cables are securely protected by removing the sharp edges inside.



Ordering

PNC-G10B : 100EA

PNC	G10	B	100	EA
Type (PNC/PWC/PAC and others)	Thread Specification (G(PF)/inch, P/pg, N/NPT, M/mm, U/UNEF)	SIZE	Color (B : Black / G : Gray)	Q'ty

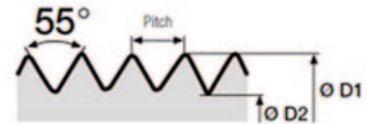


Thread

CPS is capable to respond international standard Thread types such as PF, PG, M, NPT, UNEF, etc. Also maintains quality Connector by inspecting Thread Condition by using gauges above.

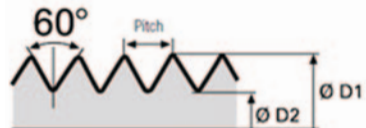
PF thread (JIS B0202)

GAS	Pitch	ØD1	ØD2	Hole
1/4"	1.337mm	13.157mm	11.445mm	13.4mm
3/8"	1.337mm	16.662mm	14.95mm	17.0mm
1/2"	1.814mm	20.905mm	18.631mm	21.3mm
3/4"	1.337mm	26.441mm	24.117mm	26.8mm
1"	2.309mm	33.249mm	30.291mm	33.7mm
1 1/4"	2.309mm	41.91mm	38.952mm	42.4mm
1 1/2"	2.309mm	47.803mm	44.845mm	48.3mm
2"	2.309mm	59.614mm	56.656mm	60.2mm



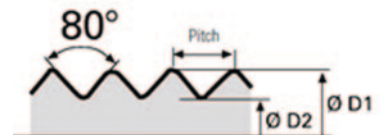
Matric fine thread (EN 60423)

Matric	Pitch	ØD1	ØD2	Hole -0/+0.3
12	1.5mm	12mm	10.38mm	12.0mm
16	1.5mm	16mm	14.38mm	16.0mm
20	1.5mm	20mm	18.38mm	20.0mm
25	1.5mm	25mm	23.38mm	25.0mm
32	1.5mm	32mm	30.38mm	32.0mm
40	1.5mm	40mm	38.38mm	40.0mm
50	1.5mm	50mm	48.38mm	50.0mm



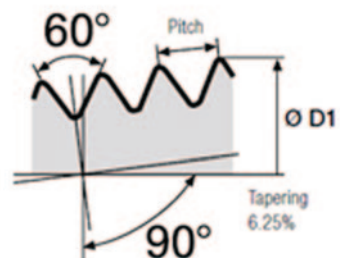
PG thread (DIN 40430)

PG	Pitch	ØD1	ØD2	Hole
07	1.270mm	12.5mm	11.28mm	12.7mm
09	1.411mm	15.2mm	13.86mm	15.4mm
11	1.411mm	18.6mm	17.26mm	18.8mm
13	1.411mm	20.4mm	19.06mm	20.7mm
16	1.411mm	22.5mm	21.16mm	22.8mm
21	1.588mm	28.3mm	26.78mm	28.6mm
29	1.588mm	37.0mm	35.48mm	37.4mm
36	1.588mm	47.0mm	45.48mm	47.5mm
48	1.588mm	59.3mm	57.78mm	59.8mm



American standard taper pipe thread (ANSI/ASME B1.20)

NPT	Pitch	ØD1	ØD2
12	0.125mm	12.43mm	12.75mm
16	0.125mm	15.66mm	16.00mm
20	0.125mm	19.64mm	20.00mm



Torque Table according to each Thread Spec. of Lock Nut

Tightening Torque Metric thread

(EN 50262)

Thread	Outer diameter (mm)	Tightening Torque (N/m)	
		Polymer	Metal
M12x1.5	12.0	0.90	5.00
M16x1.5	16.0	3.00	5.00
M20x1.5	20.0	4.00	7.50
M25x1.5	25.0	7.50	10.00
M32x1.5	32.0	10.00	15.00
M40x1.5	40.0	10.00	20.00
M50x1.5	50.0	10.00	20.00
M63x1.5	63.0	10.00	20.00

Tightening Torque PG thread

(DIN VDE 0619)

Thread	Outer diameter (mm)	Tightening Torque (N/m)	
		Polymer	Metal
PG7	12.5(0.492)	2.50	6.25
PG9	15.5(0.610)	3.75	6.25
PG11	18.6(0.732)	3.75	6.25
PG13.5	20.4(0.803)	3.75	6.25
PG16	22.5(0.886)	5.00	7.50
PG21	28.3(1.114)	7.50	10.00
PG29	37.0(1.457)	7.50	10.00
PG36	47.0(1.850)	7.50	10.00
PG42	54.0(2.126)	7.50	10.00
PG48	59.3(2.335)	7.50	10.00

Waterproof/Dustproof Grade Table(IEC 60529)



Protection Level against Solid Object	Protection Level against Liquid Object
1 Protection from contact with any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part	1 Protection against vertically dripping water
2 Protection from fingers or similar objects	2 Protection against vertically dripping water when device is tilted at an angle up to 15 degrees
3 Protection from tools, thick wires or similar objects	3 Protection against direct sprays of water when device is tilted at an angle up to 60 degrees
4 Protection from most wires, screws or similar objects	4 Protection from sprays and splashing of water in all directions.
5 Partial protection from contact with harmful dust	5 Protection from low-pressure water projected from a nozzle with a 6.3mm diameter opening in any direction
6 Protection from contact with harmful dust	6 Protection from water projected in powerful jets from a nozzle with a 12.5mm diameter opening in any direction
	7 Protected from immersion in water with a depth of up to 1 meter (or 3.3 feet) for up to 30 mins
	8 Protected from immersion in water with a depth of more than 1 meter (manufacturer must specify exact depth)

Waterproof / Dustproof Grade



Corresponds to the connecting part of the flexible tube and cpsfix

CPSFIX Specification

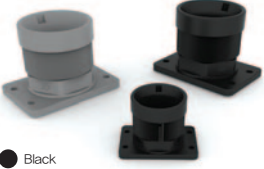


Type	Material	Temperature range	Self-extinguishing Eco-friendly	Thread G (inch)	Tube Size										
					07	10	12	16	22	28	36	48	56	70	95
PNC Male thread, Straight, One Tough Type  Black Gray Light Gray IP68 P.367	PA6	-40℃ ~ +105℃ 150℃ Short Term	UL94-HB Free of Halogen, cadmium	G 1/4 G 1/2 G 3/4 G 1 G 1 1/4 G 1 1/2 G 2 G 2 1/2 G 4 M 12×1.5 M 16×1.5 M 20×1.5 M 25×1.5 M 32×1.5 M 40×1.5 M 50×1.5 M 63×1.5 Pg 7 Pg 9 Pg 11 Pg 13.5 Pg 16 Pg 21 Pg 29 Pg 36 Pg 48 NPT 1/2" NPT 3/4" NPT 1"											

CPSFIX Specification

Type	Material	Temperature range	Self-extinguishing Eco-friendly	Thread	Tube Size												
					07	10	12	16	22	28	36	48	56	70	95		
PWC Male thread, 90° bent, One Tough Type  ● Black ● Gray ● Light Gray	IP68	High Quality Polyamide 6	-40°C ~ +105°C 150°C Short Term	UL94-HB, Free of Halogen, cadmium	G 1/2												
					G 3/4												
					G 1												
					G 1 1/4												
					G 1 1/2												
					G 2												
					M 12×1.5												
					M 16×1.5												
					M 20×1.5												
					M 25×1.5												
					M 32×1.5												
					M 40×1.5												
					M 50×1.5												
					Pg 7												
					Pg 9												
					Pg 11												
					Pg 13.5												
					Pg 16												
					Pg 21												
					Pg 29												
					Pg 36												
					Pg 48												
PAC Male thread, 45° bent, One Tough Type  ● Black ● Gray ● Light Gray	IP68	High Quality Polyamide 6	-40°C ~ +105°C 150°C Short Term	UL94-HB, Free of Halogen, cadmium	G 1/2												
					G 3/4												
					G 1												
					G 1 1/4												
					G 1 1/2												
					G 2												
					M 12×1.5												
					M 16×1.5												
					M 20×1.5												
					M 25×1.5												
					M 32×1.5												
					M 40×1.5												
					M 50×1.5												
					Pg 9												
					Pg 11												
					Pg 13.5												
					Pg 16												
					Pg 21												
					Pg 29												
					Pg 36												
					Pg 48												
PIC Female thread, Straight, One Tough Type	IP68	PA6 (PIC)	-40°C ~ +105°C	UL94-HB,	1/2-28 UNEF												
					5/8-24 UNEF												
SPIC Steel and Female thread, Straight, One Tough Type  ● Black ● Gray	IP68	PA6 (PIC) + Brass Nickel plated (SPIC)	-40°C ~ +105°C 150°C Short Term	UL94-HB, Free of Halogen, cadmium	3/4-20 UNEF												
					1-20 UNEF												
					7/8-20 UNEF												
					13/16-18 UNEF												
					17/16-18 UNEF												
					2-18UNS												
					1 3/4-18UNS												
					M16×1.5												
					M25×1.5												
					Pg 11												
					Pg 13.5												
					Pg 16												
					Pg 21												
PNCC Male thread, Straight, One Tough Type in which cable gland is inserted  ● Black ● Gray	IP68	High Quality Polyamide 6	-40°C ~ +105°C 150°C Short Term	UL94-HB, Free of Halogen, cadmium	G 1/2												
					G 3/4												
					G 1												
					G 1 1/4												
					G 2												
					M 12×1.5												
					M 16×1.5												
					M 20×1.5												
					M 25×1.5												
					M 32×1.5												
					M 40×1.5												
					M 50×1.5												
					Pg 7												
					Pg 9												
					Pg 11												
					Pg 13.5												
					Pg 16												
					Pg 21												
					Pg 29												
					Pg 36												
					Pg 48												

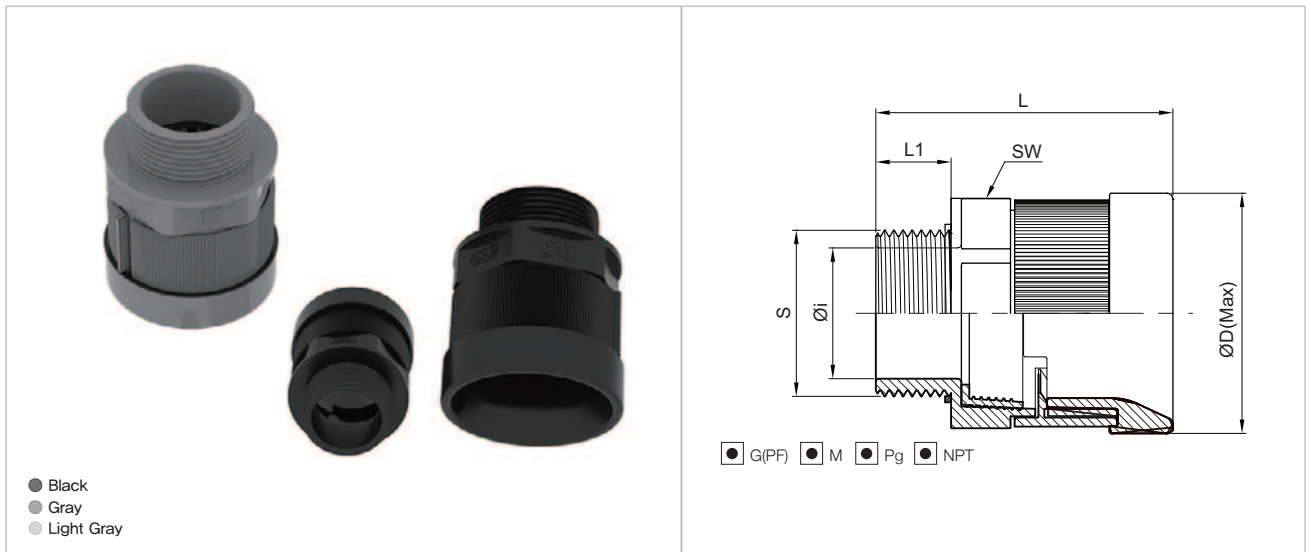
Type	Material	Temperature range	Self-extinguishing Eco-friendly	Thread G (inch)	Tube Size										
					07	10	12	16	22	28	36	48	56	70	95
PNCCL IP68 Short male thread, Straight, One Tough Type in which cable gland is inserted  ● Black ● Gray P.380	High Quality Polyamide 6	-40°C ~ +105°C 150°C Short Term	UL94-HB, Free of Halogen, cadmium	G 1/2" M 12×1.5 M16×1.5 M 20×1.5 M 25×1.5 Pg 9 Pg 11 Pg 13.5 Pg 16											
PICC IP67 For railroad cars, Female thread, Straight, One touch type in which cable gland is inserted  ● Black ● Gray P.382	High Quality Polyamide 6	-40°C ~ +105°C 150°C Short Term	UL94-HB, Free of Halogen, cadmium	1/2-28 UNEF 5/8-24 UNEF 3/4-20 UNEF 1-20 UNEF 7/8-20 UNEF 1 3/16-18 UNEF 1 7/16-18 UNEF 1 3/4-18 UNS 2-18 UNS											
PNCL IP68 Short male thread, Straight, One Tough Type  ● Black ● Gray P.383	High Quality Polyamide 6	-40°C ~ +105°C 150°C Short Term	UL94-HB, Free of Halogen, cadmium	G 1/2" M 12×1.5 M 16×1.5 M 20×1.5 M 25×1.5 Pg 9 Pg 11 Pg 13.5 Pg 16											
PWCL IP68 Short male thread, 90° bent, One Tough Type  ● Black ● Gray P.384	High Quality Polyamide 6	-40°C ~ +105°C 150°C Short Term	UL94-HB, Free of Halogen, cadmium	G 1/2" M 12×1.5 M 16×1.5 M 20×1.5 Pg 9 Pg 11 Pg 13.5 Pg 16											
PACL IP68 Short male thread, 45° bent, One Tough Type  ● Black ● Gray P.385	High Quality Polyamide 6	-40°C ~ +105°C 150°C Short Term	UL94-HB, Free of Halogen, cadmium	G 1/2" M 12×1.5 M 16×1.5 M 20×1.5 Pg 9 Pg 11 Pg 13.5 Pg 16											
PIPC IP68 Female thread, Straight, One Tough Type  ● Black ● Gray P.386	High Quality Polyamide 6	-40°C ~ +105°C 150°C Short Term	UL94-HB, Free of Halogen, cadmium	G 1/2" G 3/4" G 1" G 1 1/4" G 1 1/2" G 2"											

PNOC Flange Type, Straight, One Tough Type  ● Black ● Gray P.387	IP68 Material High Quality Polyamide 6 Temperature range $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ Short Term 150°C Self extinguishing UL94-HB, Free of Halogen, cadmium	TNOC Flange Type, Straight, One Touch Type  ● Black ● Gray P.388	IP55 Material High Quality Polyamide 6 Temperature range $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ Short Term 150°C Self extinguishing UL94-HB, Free of Halogen, cadmium
PWOC Flange Type, 90°bent One Tough Type  ● Black ● Gray P.389	IP68 Material High Quality Polyamide 6 Temperature range $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ Short Term 150°C Self extinguishing UL94-HB, Free of Halogen, cadmium Eco-friendly	TWOC Flange Type, 90°bent One Tough Type  ● Black ● Gray P.390	IP55 Material High Quality Polyamide 6 Temperature range $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ Short Term 150°C Self extinguishing UL94-HB, Free of Halogen, cadmium Eco-friendly
TNRC Male thread, Straight for rotating movement  ● Black ● Gray P.391	IP55 Material High Quality Polyamide 6 Temperature range $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ Short Term 150°C Self extinguishing UL94-HB, Free of Halogen, cadmium Eco-friendly	TIS For detecting sensor, Female, Straight, Transparent one touch type  P.392	IP67 Material High Quality Polycarbonate Temperature range $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ Short Term 150°C Self extinguishing UL94-HB, Free of Halogen, cadmium Eco-friendly
PNSC Highspeed railroad cars, Straight, Tube connector  ● Black ● Gray P.393	IP67 Material High Quality Polyamide 6 Temperature range $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ Short Term 150°C Self extinguishing UL94-HB, Free of Halogen, cadmium Eco-friendly	TVC V shape tube separator  ● Black ● Gray P.394	IP67 Material High Quality Polyamide 6 Feature CPS distributors guarantee elegant layout and save on cost instead of using distribution boxes. Nominal width from 28, reduceable to 10. Eco-friendly Free of Halogen, cadmium
TYC Y shape tube separator  ● Black ● Gray P.395	IP67 Material High Quality Polyamide 6 Feature CPS distributors guarantee elegant layout and save on cost instead of using distribution boxes. Nominal width from 28, reduceable to 10. Eco-friendly Free of Halogen, cadmium	TTC T shape tube separator  ● Black ● Gray P.396	IP67 Material High Quality Polyamide 6 Feature CPS distributors guarantee elegant layout and save on cost instead of using distribution boxes. Nominal width from 28, reduceable to 10. Eco-friendly Free of Halogen, cadmium

Type	Material	PA6	Thread (Inch)	External Diameter of inserted Cable(Min.~Max.)	Thread	External Diameter of inserted Cable(Min.~Max.)	Thread	External Diameter of inserted Cable(Min.~Max.)
FCG IP68 Male thread, Rubber gland type connector  ● Black ● Gray P.397	Temper- ature range	-40℃ ~ +105℃	G1/2	3.5~6.5	M 12×1.5	3.5~6.5	Pg 7	3.5~6.5
			G1/2	4.0~8.0	M 16×1.5	3.5~6.5	Pg 9	3.5~6.5
			G1/2	7.0~12.3	M 12×1.5	4.0~7.1	Pg 7	4.0~8.0
			G1/2	12.0~15.2	M 16×1.5	4.0~8.0	Pg 9	4.0~8.0
			G3/4	12.0~18.0	M 20×1.5	4.0~8.0	Pg 11	4.0~8.0
			G3/4	18.0~20.3	M 16×1.5	7.0~10.9	Pg 13.5	4.0~8.0
			G1	18.0~26.0	M 20×1.5	7.0~12.3	Pg 16	4.0~8.0
			G1/4	22.0~33.0	M 20×1.5	12.0~14.5	Pg 9	7.0~10.6
			G2	36.0~42.0	M 25×1.5	12.0~18.0	Pg 11	7.0~12.3
					M 25×1.5	18.0~19.5	Pg 13.5	7.0~12.3
FCGL IP68 Short thread FCG connector  ● Black ● Gray P.399	Temper- ature range	-40℃ ~ +105℃	G1/2	3.5~6.5	M 12×1.5	3.5~6.5	Pg 9	3.5~6.5
			G1/2	4.0~8.0	M 16×1.5	3.5~6.5	Pg 9	4.0~8.0
			G1/2	7.0~12.3	M 12×1.5	4.0~7.1	Pg 11	4.0~8.0
					M 16×1.5	4.0~8.0	Pg 13.5	4.0~8.0
					M 20×1.5	4.0~8.0	Pg 16	4.0~8.0
					M 16×1.5	7.0~10.9	Pg 11	7.0~12.3
					M 20×1.5	7.0~12.3	Pg 13.5	7.0~12.3
					M 25×1.5	7.0~12.3	Pg 16	7.0~12.3
TICG IP67 Female thread, Rubber gland type connector  ● Black ● Gray P.400	Temper- ature range	-40℃ ~ +105℃	Thread		External Diameter of inserted Cable(Min.~Max.)			
			1/2-28UNEF		3.5~6.5			
			5/8-24UNEF		3.5~6.5			
			3/4-20UNEF		3.5~6.5			
			7/8-20UNEF		3.5~6.5			
			1-20UNEF		3.5~6.5			
			1 3/16-18UNEF		3.5~6.5			
			1 7/16-18UNEF		3.5~6.5			
			5/8-24UNEF		4.0~8.0			
			3/4-20UNEF		4.0~8.0			
TICG IP67 Female thread, Rubber gland type connector  ● Black ● Gray P.400	Short Term	150℃	7/8-20UNEF		4.0~8.0			
			1-20UNEF		4.0~8.0			
			1 3/16-18UNEF		4.0~8.0			
			1 7/16-18UNEF		4.0~8.0			
			7/8-20UNEF		7.0~12.3			
			1-20UNEF		7.0~12.3			
			1 3/16-18UNEF		7.0~12.3			
			1 7/16-18UNEF		7.0~12.3			
			1 3/16-18UNEF		12.0~18.0			
			1 7/16-18UNEF		12.0~18.0			
TICG IP67 Female thread, Rubber gland type connector  ● Black ● Gray P.400	Self- extin- guishing	UL94-HB, Free of Halo- gen&cadmium	1 3/4-18UNS		12.0~18.0			
			2-18UNS		12.0~18.0			
			1 3/4-18UNS		18.0~26.0			
			2-18UNS		18.0~26.0			
			2-18UNS		22.0~26.0			

MCG IP68 Male thread, Straight, Steel gland type connector  P.401	Material: Brass Nickel plated Temperature range: -40°C ~ +125°C Short Term: 200°C Thread tube size: Pg07~48 / 3~45 M12~63 / 3~45	FEC IP67 End finishing connector  ● Black ● Gray P.405	Material: N.B.R / C.R Feature:	SLN Antireleasing Steel Nut Steel nut  P.406	Material: Brass Nickel plated					NFH Flip type connector  ● Black ● Gray P.403	Material: PA6 Temperature range: -40°C ~ +105°C Short Term Self extinguishing: 150°C UL94-HB, Eco-friendly: Free of Halogen&cadmium, RoHs2	FLN Anti-releasing Nut  ● Black ● Gray P.406	Material: High Quality Polyamide 6	BBS Connector hole cover  ○ White P.407	Material: High Quality Polyamide 6 Temperature range: -30°C ~ +80°C Short Term: 150°C				
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※ Include rubber washer & Lock-nut



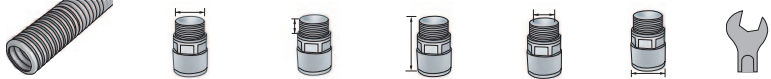
- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40℃ ~ +105℃
- Short Term : +150℃
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium, RoHS2
- Color : Black & Gray & LG (Light Gray)
- Application : Railroad cars, Industrial / Automatic Machinery, Machine tool, Shipbuilding, etc..
- Certification : UL, CE, VDE

Product Size

Ordering No.								
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PF Thread (JIS B0202)

Black	Gray	Thread(inch)	Tube Size	S	L1	L	Øi	ØD	SW
PNC-G07B	PNC-G07G	G1/4	07	12.9	11.0	34.0	8.5	18.0	14.0
PNC-G10B	PNC-G10G	G1/2	10	20.5	13.0	43.5	15.0	24.5	19.7
PNC-G12B	PNC-G12G	G1/2	12	20.5	13.0	43.1	15.0	27.6	22.8
PNC-G16B	PNC-G16G	G1/2	16	20.5	13.0	45.0	15.2	33.0	28.0
PNC-G22B	PNC-G22G	G3/4	22	26.0	15.0	54.7	22.0	43.0	37.5
PNC-G28B	PNC-G28G	G1	28	32.8	15.0	62.4	27.0	48.8	43.0
PNC-G36B	PNC-G36G	G1 1/4	36	41.7	19.0	76.6	33.0	60.6	52.2
PNC-G42B	PNC-G42G	G1 1/2	42	47.4	19.0	78.0	40.8	65.0	58.0
PNC-G428B	PNC-G428G	G1 1/2	48	47.4	21.0	81.4	41.0	71.8	64.3
PNC-G48B	PNC-G48G	G2	48	59.2	21.0	81.4	50.0	71.8	64.3

Ordering No.	
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Metric Thread (EN 60423)

Black	Gray	Thread	Tube Size	S	L1	L	Øi	ØD	SW
PNC-M107B	PNC-M107G	M12 X 1.5	07	11.8	11.0	34.0	8.5	18.0	14.0
PNC-M127B	PNC-M127G	M16 X 1.5	07	15.8	11.0	34.0	12.0	18.0	14.0
PNC-M167B	PNC-M167G	M20 X 1.5	07	19.7	11.0	34.0	15.0	18.0	14.0
PNC-M10B	PNC-M10G	M12 X 1.5	10	11.8	13.0	43.5	7.5	24.5	19.7
PNC-M120B	PNC-M120G	M16 X 1.5	10	15.8	13.0	43.5	10.0	24.5	19.7
PNC-M20B	PNC-M20G	M20 X 1.5	10	19.7	13.0	43.5	15.0	24.5	19.7
PNC-M102B	PNC-M102G	M12 X 1.5	12	11.8	13.0	43.1	8.0	27.6	22.8
PNC-M12B	PNC-M12G	M16 X 1.5	12	15.8	13.0	43.1	12.0	27.6	22.8
PNC-M202B	PNC-M202G	M20 X 1.5	12	19.7	13.0	43.1	15.0	27.6	22.8
PNC-M126B	PNC-M126G	M16 X 1.5	16	15.8	13.0	45.0	12.0	33.0	28.0
PNC-M16B	PNC-M16G	M20 X 1.5	16	19.7	13.0	45.0	15.2	33.0	28.0
PNC-M226B	PNC-M226G	M25 X 1.5	16	24.7	13.0	45.0	20.6	33.0	28.0
PNC-M22B	PNC-M22G	M25 X 1.5	22	24.7	15.5	54.7	20.6	43.0	37.5
PNC-M3222B	PNC-M3222G	M32 X 1.5	22	31.7	15.0	54.7	22.0	43.0	37.5
PNC-M28B	PNC-M28G	M32 X 1.5	28	31.7	15.0	62.4	27.0	48.8	43.0
PNC-M4028B	PNC-M4028G	M40 X 1.5	28	39.7	15.0	62.4	30.5	48.8	43.0
PNC-M36B	PNC-M36G	M40 X 1.5	36	39.7	19.0	76.6	33.0	60.6	52.2
PNC-M5036B	PNC-M5036G	M50 X 1.5	36	49.7	19.0	76.6	43.0	60.6	52.2
PNC-M48B	PNC-M48G	M50 X 1.5	48	49.7	21.0	81.4	42.0	71.8	64.3
PNC-M6348B	PNC-M6348G	M63 X 1.5	48	62.7	21.0	81.4	56.8	71.8	64.3
(without Rock Nut)									

Pg Thread (DIN 40430)

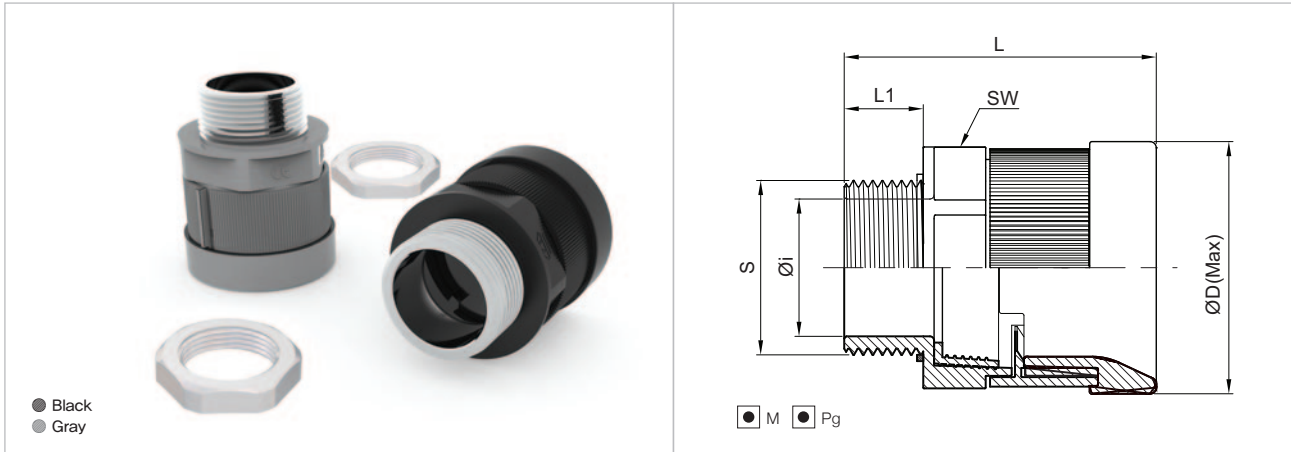
Black	Gray	Thread	Tube Size	S	L1	L	Øi	ØD	SW
PNC-P077B	PNC-P077G	Pg 07	07	12.4	11.0	34.0	8.5	18.0	14.0
PNC-P097B	PNC-P097G	Pg 09	07	15.0	11.0	34.0	12.0	18.0	14.0
PNC-P117B	PNC-P117G	Pg 11	07	18.3	11.0	34.0	14.0	18.0	14.0
PNC-P137B	PNC-P137G	Pg 13.5	07	20.2	11.0	34.0	15.0	18.0	14.0
PNC-P070B	PNC-P070G	Pg 07	10	12.4	13.0	43.5	8.0	24.5	19.7
PNC-P09B	PNC-P09G	Pg 09	10	15.0	13.0	43.5	10.0	24.5	19.7
PNC-P110B	PNC-P110G	Pg 11	10	18.3	13.0	43.5	12.0	24.5	19.7
PNC-P130B	PNC-P130G	Pg 13.5	10	20.2	13.0	43.5	15.0	25.0	19.7
PNC-P160B	PNC-P160G	Pg 16	10	22.3	13.0	43.5	15.0	25.0	19.7
PNC-P0912B	PNC-P0912G	Pg 09	12	15.0	13.0	43.1	12.0	27.6	22.8
PNC-P11B	PNC-P11G	Pg 11	12	18.3	13.0	43.1	14.0	27.6	22.8
PNC-P132B	PNC-P132G	Pg 13.5	12	20.2	13.0	43.1	15.0	27.6	22.8
PNC-P162B	PNC-P162G	Pg 16	12	22.3	13.0	43.1	15.0	27.6	22.8
PNC-P136B	PNC-P136G	Pg 13.5	16	20.2	13.0	45.0	15.2	33.0	28.0
PNC-P16B	PNC-P16G	Pg 16	16	22.3	13.0	45.0	17.2	33.0	28.0
PNC-P216B	PNC-P216G	Pg 21	16	28.0	13.0	45.0	17.5	33.0	28.0
PNC-P163B	PNC-P163G	Pg 16	22	22.3	15.0	54.7	18.0	43.0	37.5
PNC-P21B	PNC-P21G	Pg 21	22	28.0	15.0	54.7	22.0	43.0	37.5
PNC-P29B	PNC-P29G	Pg 29	28	36.7	15.0	62.4	30.5	48.8	43.0
PNC-P36B	PNC-P36G	Pg 36	36	46.7	19.0	76.6	41.0	60.6	52.2
PNC-P48B	PNC-P48G	Pg 48	48	59.0	21.0	81.4	51.2	71.8	64.3

NPT Thread (ANSI/ASME B1.20.1)

Black	Gray	Thread	Tube Size	S	L1	L	Øi	ØD	SW
PNC-N10B	PNC-N10G	NPT 1/2"	10	20.6	13.0	43.5	15.0	24.5	19.7
PNC-N12B	PNC-N12G	NPT 1/2"	12	20.6	13.0	43.1	15.0	27.6	22.8
PNC-N16B	PNC-N16G	NPT 1/2"	16	20.6	13.0	45.0	15.2	33.0	28.0
PNC-N22B	PNC-N22G	NPT 3/4"	22	26.0	15.0	54.7	22.0	43.0	37.5
PNC-N28B	PNC-N28G	NPT 1"	28	33.0	15.0	62.4	27.0	48.8	43.0

SPNC IP68

※ Include rubber washer & Lock-nut



- Material : High Quality Polyamide 6 + Brass Nickel plated
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Railroad cars, Industrial / Automatic Machinery, Machine tool, Shipbuilding, etc..

Product Size

Ordering No.									
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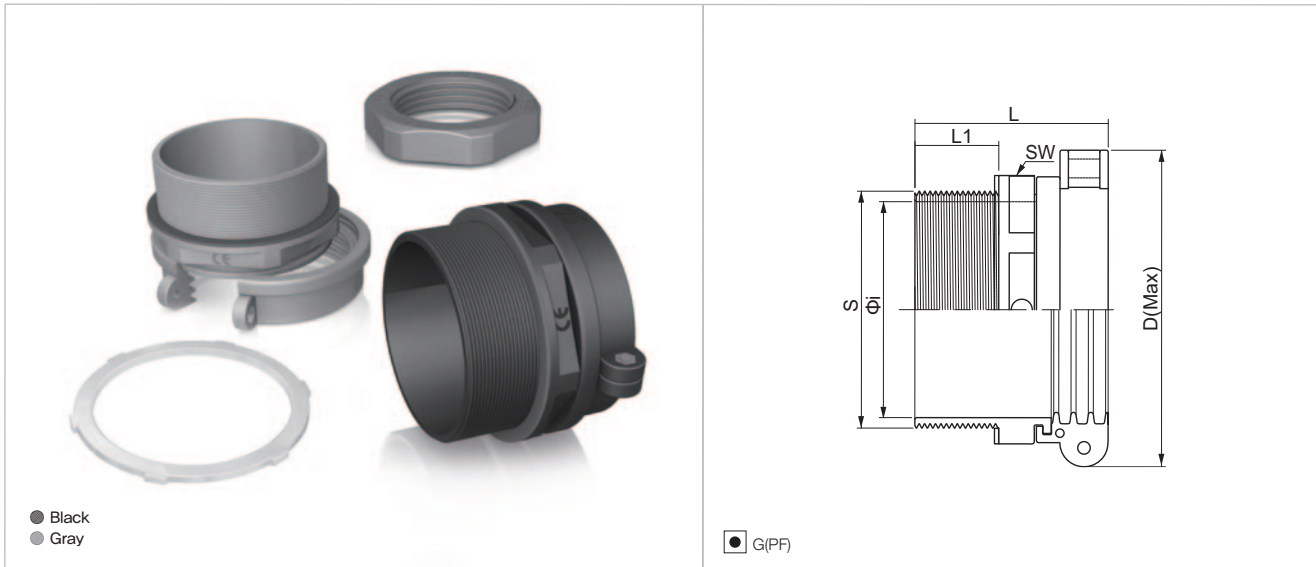
Pg Thread (DIN 40430)

Black	Gray	Thread	Tube Size	S	L1	L	Øi	ØD	SW
SPNC-P09B	SPNC-P09G	Pg09	10	15.1	14.0	47.5	9.8	24.6	19.7
SPNC-P11B	SPNC-P11G	Pg11	12	18.5	14.0	47.1	14.0	27.6	22.8
SPNC-P132B	SPNC-P132G	Pg13.5	12	20.3	14.0	47.1	15.0	27.6	22.8
SPNC-P136B	SPNC-P136G	Pg13.5	16	20.3	14.0	49.0	15.1	33.0	28.0
SPNC-P16B	SPNC-P16G	Pg16	16	22.4	14.0	49.0	15.1	33.0	28.0
SPNC-P21B	SPNC-P21G	Pg21	22	28.2	16.0	59.7	22.0	43.2	37.5
SPNC-P29B	SPNC-P29G	Pg29	28	36.8	16.0	65.7	30.5	48.8	43.0
SPNC-P36B	SPNC-P36G	Pg36	36	46.8	20.0	81.4	36.0	60.6	52.2
SPNC-P48B	SPNC-P48G	Pg48	48	59.3	22.0	86.2	52.4	71.9	64.0

Metric Thread (EN 60423)

Black	Gray	Thread	Tube Size	S	L1	L	Øi	ØD	SW
SPNC-M10B	SPNC-M10G	M12 X 1.5	10	11.9	14.0	47.5	7.5	24.6	19.7
SPNC-M1610B	SPNC-M1610G	M16 X 1.5	10	15.9	14.0	47.5	9.8	25.0	19.7
SPNC-M12B	SPNC-M12G	M16 X 1.5	12	15.9	14.0	47.1	12.0	27.6	22.8
SPNC-M2012B	SPNC-M2012G	M20 X 1.5	12	19.9	14.0	47.1	15.0	27.6	22.8
SPNC-M16B	SPNC-M16G	M20 X 1.5	16	19.9	14.0	49.0	15.1	33.0	28.0
SPNC-M2516B*	SPNC-M2516G*	M25 X 1.5	16	24.9	16.0	55.6	20.5	33.0	28.0
SPNC-M22B	SPNC-M22G	M25 X 1.5	22	24.9	16.0	59.7	20.5	43.2	37.5
SPNC-M3222B	SPNC-M3222G	M32 X 1.5	22	31.9	16.0	59.7	22.0	43.2	37.5
SPNC-M28B	SPNC-M28G	M32 X 1.5	28	31.9	16.0	67.8	27.0	48.8	43.0
SPNC-M36B	SPNC-M36G	M40 X 1.5	36	39.9	20.0	81.4	33.0	60.6	42.2
SPNC-M48B	SPNC-M48G	M50 X 1.5	48	49.9	22.0	86.2	42.0	71.9	64.0

※ Include rubber washer & Lock-nut



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP55 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Machine tool, Shipbuilding, Tramway, Industrial / Automatic Machinery, Printing Machine etc.
Joint box with connector

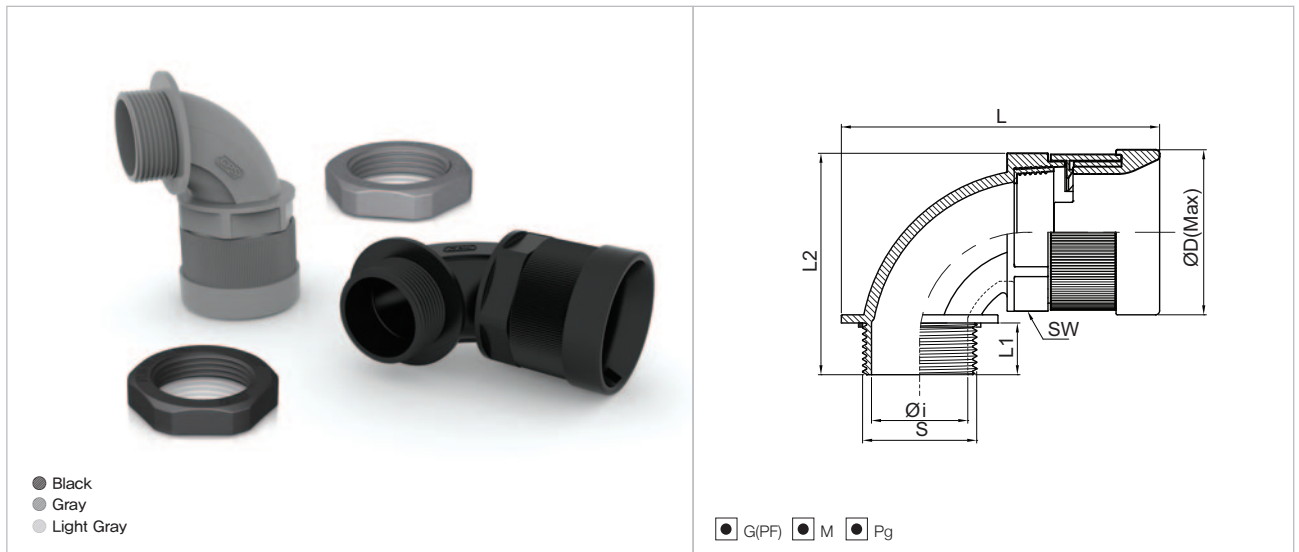
Product Size

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PF Thread (JIS B0202)

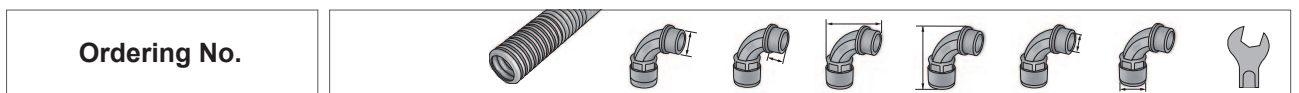
Black	Gray	Thread(inch)	Tube Size	S	L1	L	Øi	ØD	SW
TNC-G56B	TNC-G56G	G2	56	59.6	24.0	63.0	50.0	99.0	78.0
TNC-G70B	TNC-G70G	G2 1/2	70	75.0	30.0	75.0	67.0	120.0	94.5
TNC-G95B	TNC-G95G	G4	95	113.0	40.0	92.0	104.0	150.3	118.5

※ Include rubber washer & Lock-nut



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray & Light Gray
- Application : Railroad cars, Industrial / Automatic Machinery, Machine tool, Shipbuilding, etc..
- Certification : UL, CE, VDE

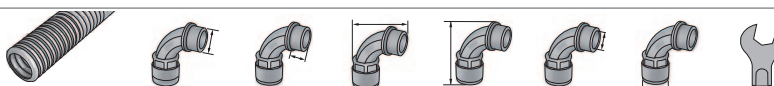
Product Size



PF Thread (JIS B0202)

Black	Gray	Thread(inch)	Tube Size	S	L1	L2	L	Øi	ØD	SW
PWC-G10B	PWC-G10G	G1/2	10	20.5	13.0	50.8	66.4	15.0	24.5	19.7
PWC-G12B	PWC-G12G	G1/2	12	20.5	13.0	50.9	64.8	15.0	27.6	22.8
PWC-G16B	PWC-G16G	G1/2	16	20.5	13.0	56.0	71.7	15.2	33.0	28.0
PWC-G22B	PWC-G22G	G3/4	22	26.0	15.0	66.8	88.4	20.5	43.0	37.5
PWC-G28B	PWC-G28G	G1	28	32.8	15.0	76.5	104.9	27.0	48.5	43.0
PWC-G368B	PWC-G368G	G1 1/4	28	41.7	15.0	76.5	104.9	30.0	48.5	43.0
PWC-G36B	PWC-G36G	G1 1/4	36	41.7	19.0	97.3	131.3	34.0	60.2	52.2
PWC-G42B	PWC-G42G	G1 1/2	42	47.4	19.0	102.7	139.0	41.0	65.0	58.0
PWC-G428B	PWC-G428G	G1 1/2	48	47.4	19.0	109.9	147.4	41.0	71.8	64.3
PWC-G48B	PWC-G48G	G2	48	59.2	19.0	109.9	147.4	50.2	71.8	64.3

Ordering No.



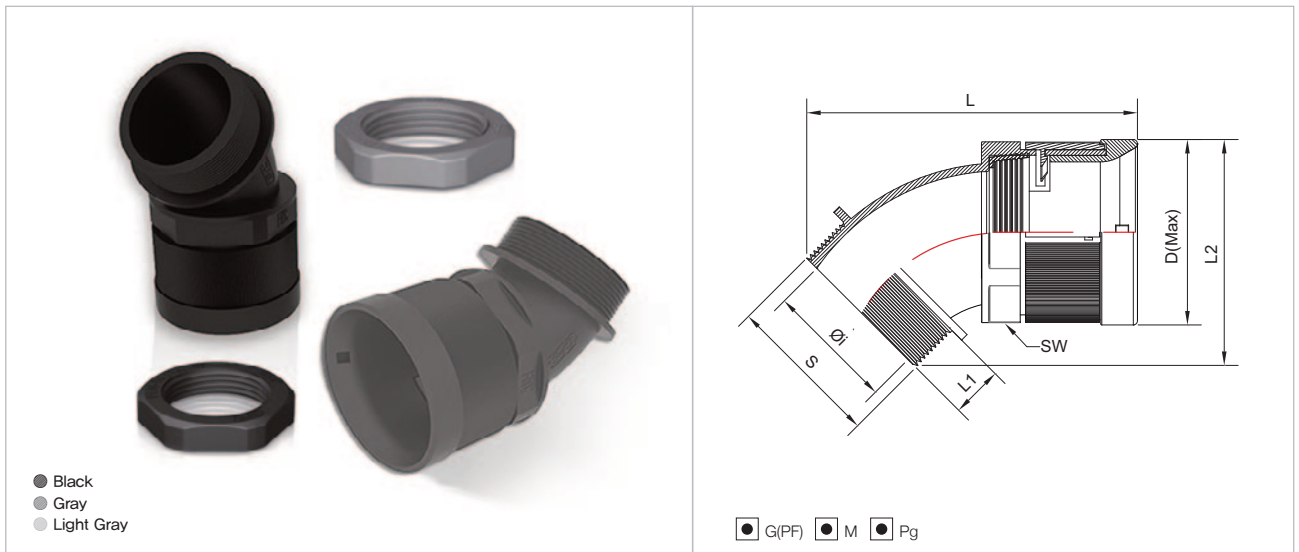
Metric Thread (EN 60423)

Black	Gray	Thread	Tube Size	S	L1	L2	L	Øi	ØD	SW
PWC-M107B	PWC-M107G	M12 X 1.5	07	11.8	11.0	35.6	47.0	7.5	18.0	14.0
PWC-M10B	PWC-M10G	M12 X 1.5	10	11.8	13.0	50.8	66.4	8.0	25.0	19.7
PWC-M12B	PWC-M12G	M16 X 1.5	12	15.8	13.0	50.9	64.8	12.0	27.6	22.8
PWC-M202B	PWC-M202G	M20 X 1.5	12	19.7	13.0	50.9	64.8	15.0	27.6	22.8
PWC-M16B	PWC-M16G	M20 X 1.5	16	19.7	13.0	56.0	71.7	15.0	33.0	28.0
PWC-M22B	PWC-M22G	M25 X 1.5	22	24.7	15.0	66.8	88.4	18.0	43.0	37.5
PWC-M28B	PWC-M28G	M32 X 1.5	28	31.7	15.0	76.5	104.9	27.0	48.5	43.0
PWC-M36B	PWC-M36G	M40 X 1.5	36	39.7	19.0	97.5	131.6	34.0	60.2	52.2
PWC-M48B	PWC-M48G	M50 X 1.5	48	49.7	19.0	109.9	147.4	42.0	71.8	64.3

Pg Thread (DIN 40430)

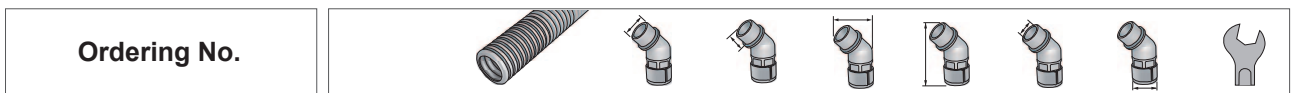
Black	Gray	Thread	Tube Size	S	L1	L2	L	Øi	ØD	SW
PWC-P077B	PWC-P077G	Pg07	07	12.4	11.0	35.6	47.0	7.5	18.0	14.0
PWC-P097B	PWC-P097G	Pg09	07	15.0	11.0	35.6	47.0	8.5	18.0	14.0
PWC-P09B	PWC-P09G	Pg09	10	15.0	13.0	50.8	66.4	11.0	25.0	19.7
PWC-P110B	PWC-P110G	Pg11	10	18.3	13.0	50.8	66.4	13.0	25.0	19.7
PWC-P130B	PWC-P130G	Pg13.5	10	20.2	13.0	50.8	66.4	15.0	24.5	19.7
PWC-P11B	PWC-P11G	Pg11	12	18.3	13.0	50.9	64.8	13.0	27.6	22.8
PWC-P132B	PWC-P132G	Pg13.5	12	20.2	13.0	50.9	64.8	15.0	27.6	22.8
PWC-P162B	PWC-P162G	Pg16	12	22.3	13.0	50.9	64.8	15.0	27.6	22.8
PWC-P136B	PWC-P136G	Pg13.5	16	20.2	13.0	56.0	71.7	15.0	33.0	28.0
PWC-P16B	PWC-P16G	Pg16	16	22.3	13.0	56.0	71.7	17.5	33.0	28.0
PWC-P163B	PWC-P163G	Pg16	22	22.3	15.0	66.8	88.4	18.0	43.0	37.5
PWC-P21B	PWC-P21G	Pg21	22	28.0	15.0	66.8	88.4	22.0	43.0	37.5
PWC-P29B	PWC-P29G	Pg29	28	36.7	15.0	76.5	104.9	30.5	48.5	43.0
PWC-P36B	PWC-P36G	Pg36	36	46.7	19.0	97.5	131.6	39.7	60.2	52.2
PWC-P48B	PWC-P48G	Pg48	48	59.0	19.0	109.9	147.4	50.2	71.8	64.3

※ Include rubber washer & Lock-nut



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40℃ ~ +105℃
- Short Term : +150℃
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray & Light Gray
- Application : Railroad cars, Industrial / Automatic Machinery, Machine tool, Shipbuilding, etc..
- Certification : UL, CE, VDE

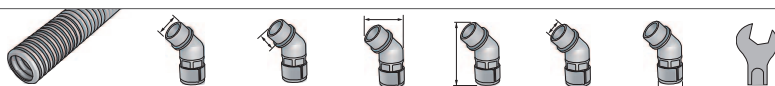
Product Size



PF Thread (JIS B0202)

Black	Gray	Thread(inch)	Tube Size	S	L1	L2	L	Øi	ØD	SW
PAC-G10B	PAC-G10G	G1/2	10	20.5	13.0	35.5	62.5	15.0	24.5	19.7
PAC-G12B	PAC-G12G	G1/2	12	20.5	13.0	37.6	62.8	15.0	27.6	22.8
PAC-G16B	PAC-G16G	G1/2	16	20.5	13.0	41.1	66.4	15.2	33.0	28.0
PAC-G22B	PAC-G22G	G3/4	22	26.0	15.0	50.9	80.8	22.0	43.0	37.5
PAC-G28B	PAC-G28G	G1	28	32.8	15.0	57.2	92.7	27.0	48.8	43.0
PAC-G36B	PAC-G36G	G1 1/4	36	41.7	19.0	67.2	113.3	34.0	60.6	52.2
PAC-G42B	PAC-G42G	G1 1/2	48	47.4	19.0	78.5	121.9	40.8	71.8	64.3
PAC-G48B	PAC-G48G	G2	48	59.2	19.0	84.3	125.9	50.0	71.8	64.3

Ordering No.

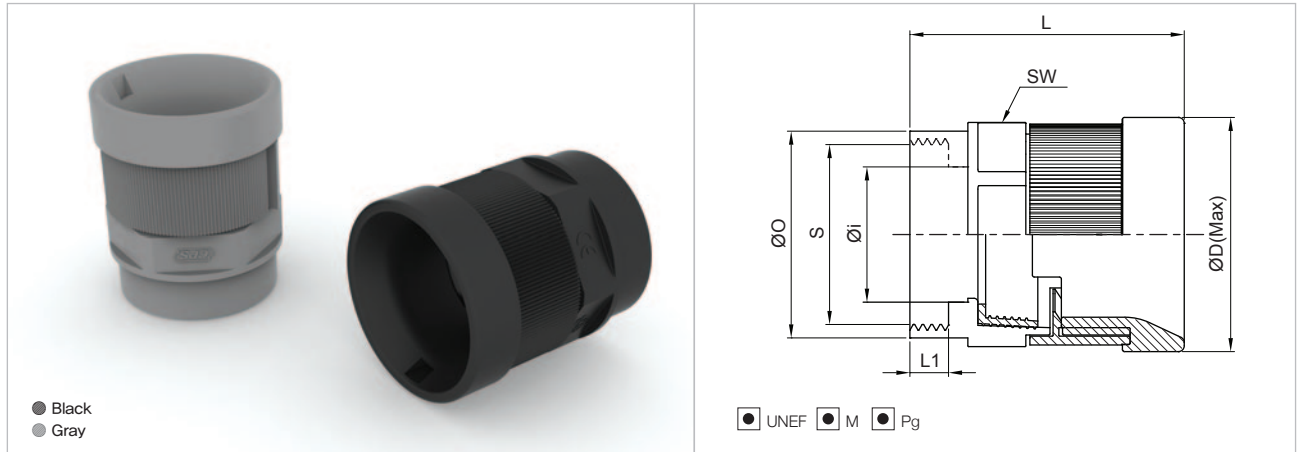


Metric Thread (EN 60423)

Black	Gray	Thread	Tube Size	S	L1	L2	L	Øi	ØD	SW
PAC-M10B	PAC-M10G	M12 X 1.5	10	11.8	13.0	32.2	58.2	8.0	25.0	19.7
PAC-M12B	PAC-M12G	M16 X 1.5	12	15.8	13.0	35.8	61.0	12.0	27.6	22.8
PAC-M202B	PAC-M202G	M20 X 1.5	12	19.7	13.0	37.2	62.7	15.0	27.6	22.8
PAC-M16B	PAC-M16G	M20 X 1.5	16	19.7	13.0	40.6	66.3	15.2	33.0	28.0
PAC-M22B	PAC-M22G	M25 X 1.5	22	24.7	15.0	50.3	80.6	20.6	43.0	37.5
PAC-M28B	PAC-M28G	M32 X 1.5	28	31.7	15.0	56.3	92.5	27.0	48.8	43.0
PAC-M36B	PAC-M36G	M40 X 1.5	36	39.7	19.0	70.6	111.8	34.0	60.6	52.2
PAC-M48B	PAC-M48G	M50 X 1.5	48	49.7	19.0	82.5	112.0	42.0	71.8	64.3

Pg Thread (DIN 40430)

Black	Gray	Thread	Tube Size	S	L1	L2	L	Øi	ØD	SW
PAC-P09B	PAC-P09G	Pg09	10	15.0	13.0	34.0	59.4	11.0	25.0	19.7
PAC-P110B	PAC-P110G	Pg11	10	18.3	13.0	34.8	60.5	15.0	25.0	19.7
PAC-P130B	PAC-P130G	Pg13.5	10	20.2	13.0	35.4	62.5	15.0	24.5	19.7
PAC-P11B	PAC-P11G	Pg11	12	18.3	13.0	36.0	62.0	14.0	27.6	22.8
PAC-P136B	PAC-P136G	Pg13.5	16	20.2	13.0	41.1	66.0	15.2	33.0	28.0
PAC-P16B	PAC-P16G	Pg16	16	22.3	13.0	41.8	67.0	17.5	33.0	28.0
PAC-P21B	PAC-P21G	Pg21	22	28.0	15.0	51.7	81.3	22.0	43.0	37.5
PAC-P29B	PAC-P29G	Pg29	28	36.7	15.0	58.0	94.1	31.0	48.8	43.0
PAC-P36B	PAC-P36G	Pg36	36	46.7	19.0	73.3	114.6	34.3	60.6	52.2
PAC-P48B	PAC-P48G	Pg48	48	59.0	19.0	84.6	126.2	50.0	71.8	64.0



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Railroad cars, Industrial / Automatic Machinery, Machine tool, Shipbuilding, etc..
- Certification : CE, VDE

Product Size



UNEF Thread (ASME B1.1)

Black	Gray	Thread	Tube Size	Shell Size	S	L1	L	Øi	ØO	ØD	SW
PIC-U0810B	PIC-U0810G	1/2-28UNEF	10	8S, 10S	11.8	12.0	44.8	10.1	18.5	24.5	19.7
PIC-U1010B	PIC-U1010G	9/16-24UNEF	10	11	13.4	12.0	44.8	10.1	18.5	24.5	19.7
PIC-U1210B	PIC-U1210G	5/8-24UNEF	10	10SL, 12S	15.0	12.0	44.8	10.1	20.5	24.5	19.7
PIC-U1410B	PIC-U1410G	3/4-20UNEF	10	14, 14S	17.8	12.0	44.5	10.1	23.5	24.5	19.7
PIC-U1212B	PIC-U1212G	5/8-24UNEF	12	10SL, 12S	15.0	10.0	43.7	13.1	20.5	27.6	22.8
PIC-U1412B	PIC-U1412G	3/4-20UNEF	12	14, 14S	17.8	10.0	43.7	13.1	24.0	27.6	22.8
PIC-U1812B	PIC-U1812G	1-20UNEF	12	18	24.0	10.0	43.7	13.1	31.0	27.6	22.8
PIC-U1416B	PIC-U1416G	3/4-20UNEF	16	14, 14S	17.8	10.0	46.0	17.7	24.0	33.0	28.0
PIC-U1616B	PIC-U1616G	7/8-20UNEF	16	16, 16S	21.0	10.0	46.0	17.7	28.0	33.0	28.0
PIC-U1816B	PIC-U1816G	1-20UNEF	16	18	24.0	10.0	46.0	17.7	31.0	33.0	28.0
PIC-U2016B	PIC-U2016G	1-3/16-18UNEF	16	20, 22	29.0	10.0	46.0	17.7	36.0	33.0	28.0
PIC-U2816B	PIC-U2816G	1-7/16-18UNEF	16	24, 28	35.0	10.0	46.0	17.7	42.0	33.0	28.0
PIC-U2222B	PIC-U2222G	1-3/16-18UNEF	22	20, 22	29.0	9.5	55.2	20.1	35.5	43.0	37.5
PIC-U2822B	PIC-U2822G	1-7/16-18UNEF	22	24, 28	35.0	16.0	55.2	23.1	42.0	43.0	37.5
PIC-U3622B	PIC-U3622G	2-18UNS	22	36	49.5	9.5	55.2	20.1	56.3	43.0	37.5
PIC-U2228B	PIC-U2228G	1-3/16-18UNEF	28	20, 22	35.0	9.5	62.5	28.1	42.0	48.8	43.0
PIC-U2828B	PIC-U2828G	1-7/16-18UNEF	28	24, 28	35.0	9.5	62.5	28.1	42.0	48.8	43.0
PIC-U3228B	PIC-U3228G	1-3/4-18UNS	28	32	43.0	9.5	62.5	28.1	50.5	48.8	43.0
PIC-U3628B	PIC-U3628G	2-18UNS	28	36	49.5	9.5	62.5	28.1	56.3	48.8	43.0
PIC-U2836B	PIC-U2836G	1-7/16-18UNEF	36	24, 28	35.0	19.0	76.5	28.1	42.0	60.6	52.2
PIC-U3236B	PIC-U3236G	1-3/4-18UNEF	36	32	43.0	19.0	76.5	34.3	53.0	60.6	52.2
PIC-U3636B	PIC-U3636G	2-18UNS	36	36	49.5	19.0	76.5	34.3	54.5	60.6	52.2

PIC IP68

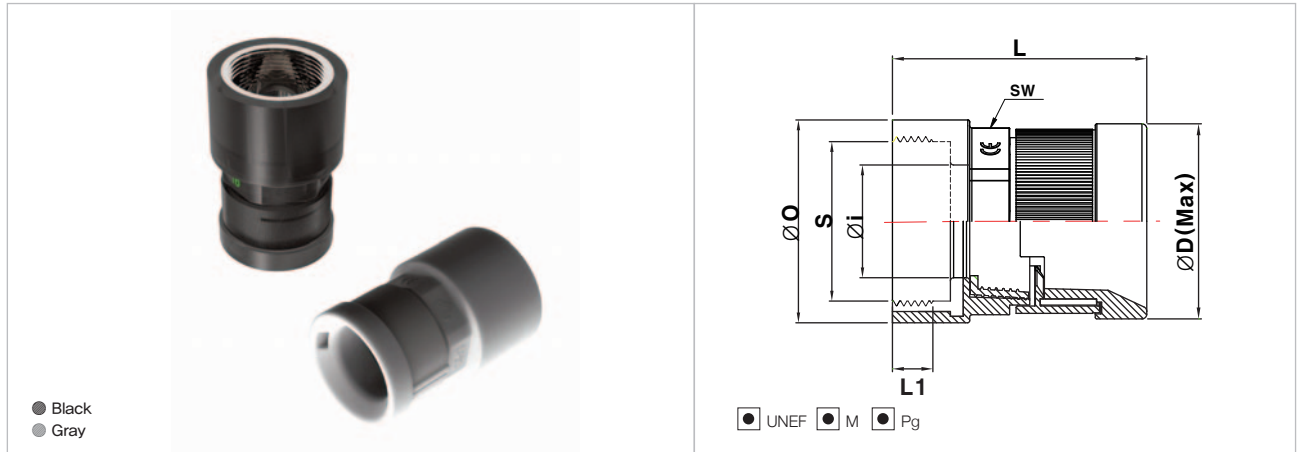
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Metric Thread (EN 60423)

Black	Gray	Thread	Tube Size	L1	L	Øi	Ø O	ØD	SW
PIC-M12B	PIC-M12G	M16 X 1,5	12	10,0	43,7	13,1	20,5	27,6	22,8
PIC-M226B	PIC-M226G	M25 X 1,5	16	10,2	46,0	17,7	35,5	33,0	28,0

Pg Thread (DIN 40430)

Black	Gray	Thread	Tube Size	L1	L	Øi	Ø O	ØD	SW
PIC-P11B	PIC-P11G	Pg11	12	10,0	43,7	13,1	20,5	27,6	22,8
PIC-P16B	PIC-P16G	Pg16	16	10,0	46,0	17,7	28,0	33,0	28,0
		Pg21	22	9,5	55,2	20,1	35,5	43,0	37,5



- Material : High Quality Polyamide 6 (PA6) + Brass Nickel plated
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Railroad cars, Industrial / Automatic Machinery, Machine tool, Shipbuilding, etc..

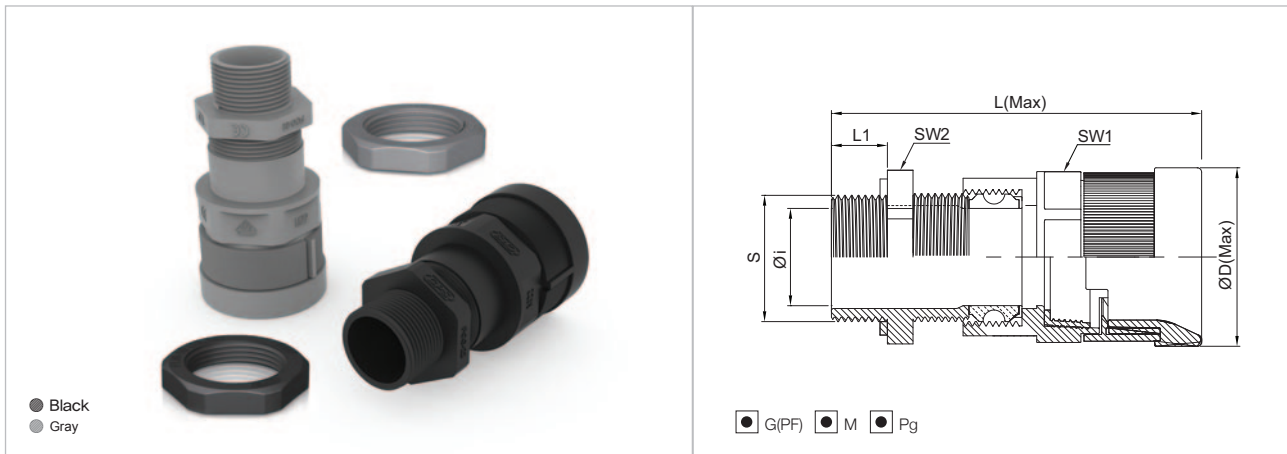
Product Size



UNEF Thread (ASME B1.1)

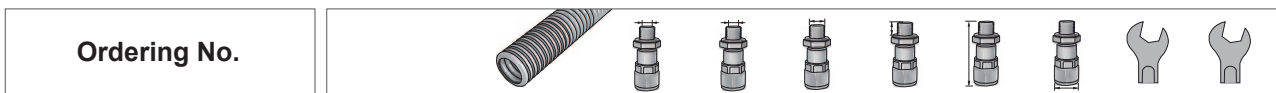
Black	Gray	Thread	Tube Size	Shell Size	S	L1	L	Øi	ØO	ØD	SW
SPIC-U1010B	SPIC-U1010G	1/2-28UNEF	10	8S, 10S	11.8	12.1	54.6	9.0	23.0	24.5	19.7
SPIC-U1210B	SPIC-U1210G	5/8-24UNEF	10	10SL, 12S	15.0	12.1	54.6	10.0	26.0	24.5	19.7
SPIC-U1410B	SPIC-U1410G	3/4-20UNEF	10	14, 14S	18.0	12.1	54.6	10.0	29.0	24.5	19.7
SPIC-U1212B	SPIC-U1212G	5/8-24UNEF	12	10SL, 12S	15.0	10.0	52.4	12.0	26.0	27.6	22.8
SPIC-U1412B	SPIC-U1412G	3/4-20UNEF	12	14, 14S	18.0	10.0	52.4	13.0	29.0	27.6	22.8
SPIC-U1812B	SPIC-U1812G	1-20UNEF	12	18	24.3	10.0	52.4	13.0	36.0	27.6	22.8
SPIC-U1416B	SPIC-U1416G	3/4-20UNEF	16	14, 14S	18.0	10.0	54.0	15.0	29.0	33.0	28.0
SPIC-U1616B	SPIC-U1616G	7/8-20UNEF	16	16, 16S	21.2	10.0	54.0	17.5	33.0	33.0	28.0
SPIC-U1816B	SPIC-U1816G	1-20UNEF	16	18	24.3	10.0	54.0	17.5	36.0	33.0	28.0
SPIC-U2016B	SPIC-U2016G	1 3/16-18UNEF	16	20, 22	29.0	10.0	54.0	17.5	41.0	33.0	28.0
SPIC-U2816B	SPIC-U2816G	1 7/16-18UNEF	16	24, 28	35.3	10.0	54.0	17.5	48.0	33.0	28.0
SPIC-U2222B	SPIC-U2222G	1 3/16-18UNEF	22	20, 22	29.0	9.5	61.2	23.0	41.0	43.0	37.5
SPIC-U2822B	SPIC-U2822G	1 7/16-18UNEF	22	24, 28	35.3	9.5	61.2	23.0	47.0	43.0	37.5
SPIC-U3622B	SPIC-U3622G	2-18UNS	22	36	49.5	9.5	63.2	23.0	63.0	43.0	37.5
SPIC-U2228B	SPIC-U2228G	1 7/16-18UNEF	28	24, 28	35.3	9.5	70.8	26.0	41.0	48.8	43.0
SPIC-U2828B	SPIC-U2828G	1 7/16-18UNEF	28	24, 28	35.3	9.5	70.8	28.0	47.0	48.8	43.0
SPIC-U3228B	SPIC-U3228G	1 3/4-18UNS	28	32	43.3	9.5	71.3	28.0	57.0	48.8	43.0
SPIC-U3628B	SPIC-U3628G	2-18UNS	28	36	49.5	9.5	71.3	28.0	63.0	48.8	43.0
SPIC-U2836B	SPIC-U2836G	1 7/16-18UNEF	36	24, 28	35.3	19.0	90.0	23.0	48.0	60.6	52.2
SPIC-U3236B	SPIC-U3236G	1 3/4-18UNEF	36	32	43.3	19.0	90.0	35.0	57.0	60.6	52.2
SPIC-U3636B	SPIC-U3636G	2-18UNS	36	36	49.5	19.0	90.0	35.0	63.0	60.6	52.2

※ Include rubber washer & Lock-nut



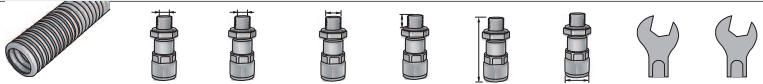
- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40℃ ~ +105℃
- Short Term : +150℃
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Machine tool, Shipbuilding, Tramway, Industrial / Automatic Machinery, Printing Machine etc. Joint box with connector, Connector to avoid the cutoff of the cable in the machine.

Product Size



PF Thread (JIS B0202)

Black	Gray	Thread(inch)	Tube Size	Øi (Min)	Øi (Max)	S	L1	L	ØD	SW1	SW2
PNCC-G10B	PNCC-G10G	G1/2	10	3.5	7.0	20.5	15.0	70.6	24.2	19.7	22.6
PNCC-G12B	PNCC-G12G	G1/2	12	4.0	8.8	20.5	15.0	72.0	27.6	22.8	25.4
PNCC-G16B	PNCC-G16G	G1/2	16	6.5	13.0	20.5	15.0	75.2	33.0	28.0	25.4
PNCC-G1622B	PNCC-G1622G	G1/2	22	11.0	19.0	20.5	15.0	88.9	43.0	37.5	34.0
PNCC-G22B	PNCC-G22G	G3/4	22	11.0	19.0	26.2	15.0	89.0	43.0	37.5	34.0
PNCC-G228B	PNCC-G228G	G3/4	28	17.5	26.2	26.2	15.0	98.5	49.0	43.0	43.2
PNCC-G28B	PNCC-G28G	G1	28	17.5	26.2	32.8	15.0	95.2	48.8	43.0	43.2
PNCC-G36B	PNCC-G36G	G1 1/4	36	22.0	33.3	41.7	19.0	123.0	60.6	52.2	52.5

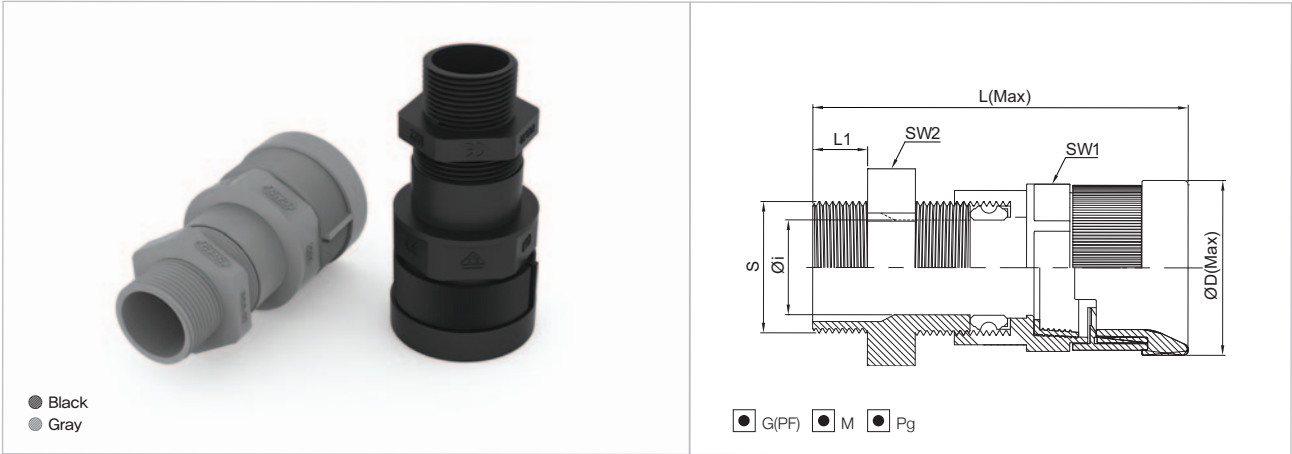
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Metric Thread (EN 60423)

Black	Gray	Thread	Tube Size	Ø i (Min)	Ø i (Max)	S	L1	L	ØD	SW1	SW2
PNCC-M10B	PNCC-M10G	M12 X 1.5	10	3.8	7.0	11.8	15.0	71.3	24.2	19.7	22.6
PNCC-M120B	PNCC-M120G	M16 X 1.5	10	3.8	7.0	15.8	15.0	70.5	24.2	19.7	22.6
PNCC-M102B	PNCC-M102G	M12 X 1.5	12	4.0	9.0	11.8	15.0	72.5	27.6	22.8	25.5
PNCC-M12B	PNCC-M12G	M16 X 1.5	12	4.0	9.0	15.8	15.0	72.5	27.6	22.8	25.5
PNCC-M162B	PNCC-M162G	M20 X 1.5	12	4.0	9.0	19.8	15.0	72.5	27.6	22.8	25.5
PNCC-M126B	PNCC-M126G	M16 X 1.5	16	8.5	13.4	15.8	15.0	75.8	33.0	28.0	25.5
PNCC-M16B	PNCC-M16G	M20 X 1.5	16	8.5	13.4	19.8	15.0	75.5	33.0	28.0	25.5
PNCC-M1622B	PNCC-M1622G	M20 X 1.5	22	11.0	19.5	19.8	15.0	90.0	43.0	37.5	34.0
PNCC-M22B	PNCC-M22G	M25 X 1.5	22	11.0	19.5	24.7	15.0	89.0	43.0	37.5	34.0
PNCC-M228B	PNCC-M228G	M25 X 1.5	28	17.5	19.5	24.7	15.0	96.0	48.4	43.0	43.2
PNCC-M28B	PNCC-M28G	M32 X 1.5	28	18.0	26.5	31.7	15.0	96.0	48.4	43.0	43.2
PNCC-M36B	PNCC-M36G	M40 X 1.5	36	22.0	33.3	40.0	19.0	123.0	60.6	52.2	52.5

Pg Thread (DIN 40430)

Black	Gray	Thread	Tube Size	Ø i (Min)	Ø i (Max)	S	L1	L	ØD	SW1	SW2
PNCC-P07B	PNCC-P07G	Pg07	10	3.5	7.0	12.3	15.0	72.3	25.0	19.7	22.6
PNCC-P09B	PNCC-P09G	Pg09	10	3.5	7.0	14.9	15.0	70.8	24.2	19.7	22.6
PNCC-P072B	PNCC-P072G	Pg07	12	3.8	8.0	12.3	15.0	73.0	27.6	22.8	25.5
PNCC-P092B	PNCC-P092G	Pg09	12	4.0	9.0	14.9	15.0	73.0	27.6	22.8	25.5
PNCC-P11B	PNCC-P11G	Pg11	12	4.0	9.0	18.3	15.0	72.4	27.6	22.8	25.5
PNCC-P132B	PNCC-P132G	Pg13.5	12	4.0	9.0	20.2	15.0	73.5	27.6	22.8	25.5
PNCC-P162B	PNCC-P162G	Pg16	12	4.0	9.0	22.3	15.0	73.5	27.6	22.8	25.5
PNCC-P096B	PNCC-P096G	Pg09	16	7.0	13.4	14.9	15.0	77.5	33.0	28.0	25.5
PNCC-P116B	PNCC-P116G	Pg11	16	6.2	13.4	18.3	15.0	75.4	33.0	28.0	25.5
PNCC-P13B	PNCC-P13G	Pg13.5	16	6.2	13.4	20.0	15.0	75.6	33.0	28.0	25.5
PNCC-P16B	PNCC-P16G	Pg16	16	7.0	13.4	22.3	15.0	77.5	33.0	28.0	25.5
PNCC-P122B	PNCC-P122G	Pg11	22	12.0	19.5	18.3	15.0	90.0	43.0	37.5	34.0
PNCC-P1322B	PNCC-P1322G	Pg13.5	22	12.0	19.5	20.2	15.0	90.0	43.0	37.5	34.0
PNCC-P1622B	PNCC-P1622G	Pg16	22	11.5	17.3	22.3	15.0	90.0	43.0	37.5	34.0
PNCC-P21B	PNCC-P21G	Pg21	22	11.0	19.0	28.0	15.0	90.0	43.0	37.5	34.0
PNCC-P218B	PNCC-P218G	Pg21	28	17.0	26.5	28.0	15.0	97.5	49.0	43.0	43.2
PNCC-P29B	PNCC-P29G	Pg29	28	17.0	26.5	36.8	15.0	98.5	49.0	43.0	43.2
PNCC-P36B	PNCC-P36G	Pg36	36	22.0	33.3	47.0	19.0	123.0	60.6	52.2	51.6



- Material

: High Quality Polyamide 6 (PA6)
- Degrees of Protection

: IP 68 (EN 60529)
- The max. Instantaneous Temperature

: -40℃ ~ +105℃
- Short Term

: +150℃
- Self-Extinguishing

: UL94-HB
- Eco-friendly

: Free of Halogen & cadmium
- Color

: Black & Gray
- Application

: Machine tool, Shipbuilding, Tramway, Industrial / Automatic Machinery, Printing Machine etc.
Joint box with connector, Connector to avoid the cutoff of the cable in the machine.

Product Size



PF Thread (JIS B0202)

Black	Gray	Thread(inch)	Tube Size	Øi(Min)	Øi(Max)	S	L1	L	ØD	SW1	SW2
PNCCL-G10B	PNCCL-G10G	G1/2	10	3.5	6.5	20.4	9.0	70.6	24.2	19.7	22.6
PNCCL-G12B	PNCCL-G12G	G1/2	12	4.0	8.0	20.4	9.0	72.0	27.6	22.8	25.5
PNCCL-G16B	PNCCL-G16G	G1/2	16	7.0	12.3	20.4	9.0	75.2	33.0	28.0	25.5

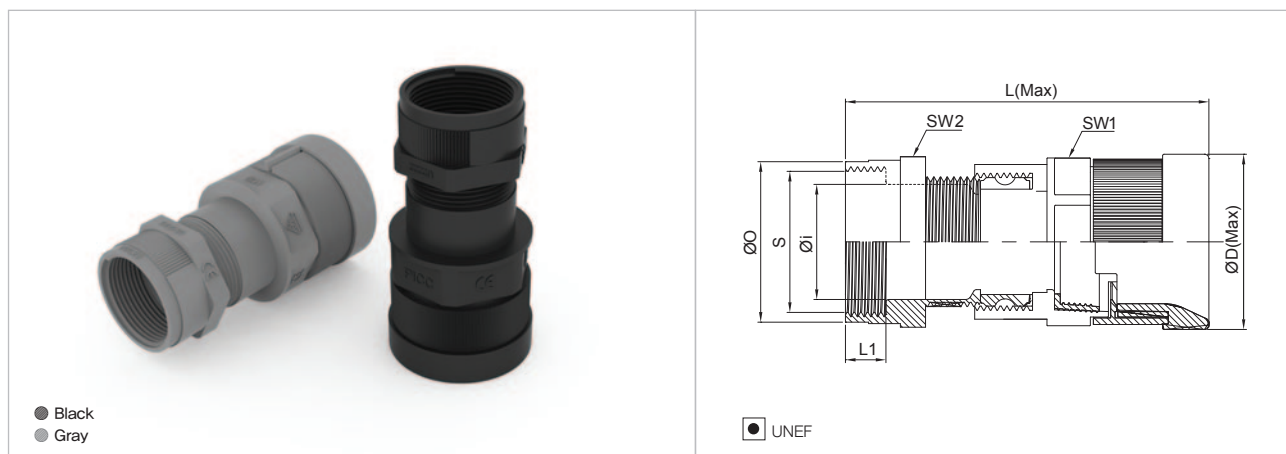
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Metric Thread (EN 60423)

Black	Gray	Thread	Tube Size	Øi(Min)	Øi(Max)	S	L1	L	ØD	SW1	SW2
PNCCL-M10B	PNCCL-M10G	M12 X 1.5	10	3.5	6.5	11.8	9.0	71.3	24.2	19.7	22.6
PNCCL-M120B	PNCCL-M120G	M16 X 1.5	10	3.5	6.5	15.8	9.0	70.5	24.2	19.7	22.6
PNCCL-M102B	PNCCL-M102G	M12 X 1.5	12	4.0	7.1	11.8	9.0	72.5	27.6	22.8	25.5
PNCCL-M12B	PNCCL-M12G	M16 X 1.5	12	4.0	8.0	15.8	9.0	72.5	27.6	22.8	25.5
PNCCL-M162B	PNCCL-M162G	M20 X 1.5	12	4.0	8.0	19.8	9.0	72.5	27.6	22.8	25.5
PNCCL-M126B	PNCCL-M126G	M16 X 1.5	16	7.0	10.9	15.8	9.0	75.8	33.0	28.0	25.5
PNCCL-M16B	PNCCL-M16G	M20 X 1.5	16	7.0	12.3	19.8	9.0	75.5	33.0	28.0	25.5
PNCCL-M216B	PNCCL-M216G	M25 X 1.5	16	7.0	12.3	24.7	9.0	70.8	33.0	28.0	25.5

Pg Thread (DIN 40430)

Black	Gray	Thread	Tube Size	Øi(Min)	Øi(Max)	S	L1	L	ØD	SW1	SW2
PNCCL-P09B	PNCCL-P09G	Pg09	10	3.5	6.5	14.9	9.0	70.8	24.2	19.7	22.6
PNCCL-P092B	PNCCL-P092G	Pg09	12	4.0	8.0	14.9	9.0	67.5	27.6	22.8	25.5
PNCCL-P11B	PNCCL-P11G	Pg11	12	4.0	8.0	18.3	9.0	72.4	27.6	22.8	25.5
PNCCL-P132B	PNCCL-P132G	Pg13.5	12	4.0	8.0	20.2	9.0	66.4	27.6	22.8	25.5
PNCCL-P162B	PNCCL-P162G	Pg16	12	4.0	8.0	22.3	9.0	66.4	27.6	22.8	25.5
PNCCL-P116B	PNCCL-P116G	Pg11	16	7.0	12.3	18.3	9.0	71.5	33.0	28.0	25.5
PNCCL-P13B	PNCCL-P13G	Pg13.5	16	7.0	12.3	20.2	9.0	71.5	33.0	28.0	25.5
PNCCL-P16B	PNCCL-P16G	Pg16	16	7.0	12.3	22.3	9.0	70.8	33.0	28.0	25.5



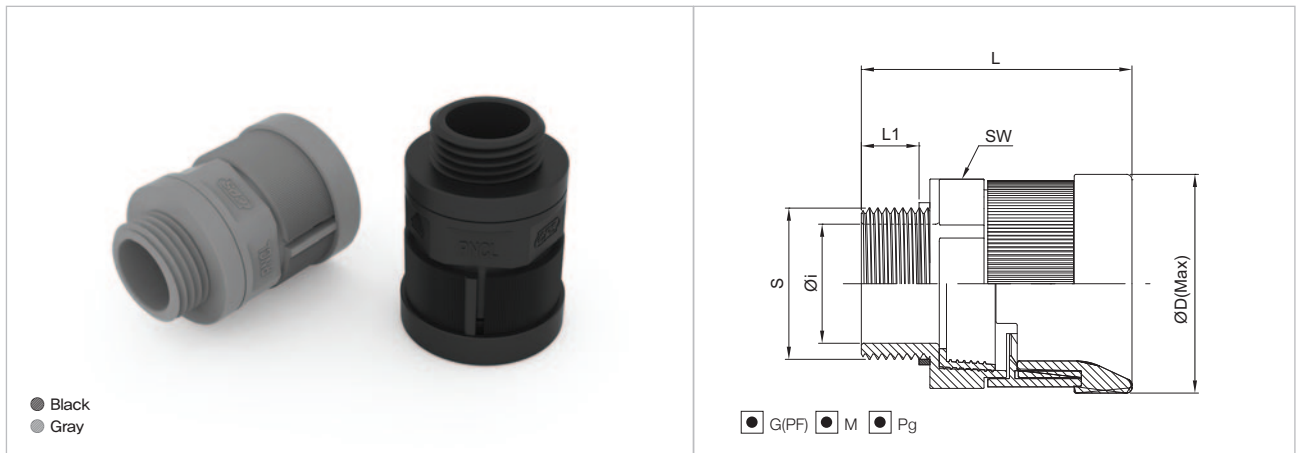
- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40℃ ~ +105℃
- Short Term : +150℃
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Machine tool, Shipbuilding, Tramway, Industrial / Automatic Machinery, Printing Machine etc.
Joint box with connector, Connector to avoid the cutoff of the cable in the machine.

Product Size



UNEF Thread (ASME B1.1)

Black	Gray	Thread	Tube Size	Shell Size	S	Øi(Min)	Øi(Max)	L1	L	ØO	ØD	SW1	SW2
PICC-U1010B	PICC-U1010G	1/2-28UNEF	10	8S, 10S	13.2	6.5	8.4	10.4	70.7	17.5	24.5	19.7	22.5
PICC-U1210B	PICC-U1210G	5/8-24UNEF	10	10SL, 12S	15.0	6.5	8.4	10.4	70.6	19.8	24.5	19.7	22.5
PICC-U1410B	PICC-U1410G	3/4-20UNEF	10	14, 14S	17.8	6.5	8.4	10.4	70.9	23.2	24.5	19.7	22.5
PICC-U1212B	PICC-U1212G	5/8-24UNEF	12	10SL, 12S	15.0	8.0	10.4	10.2	72.8	19.7	27.6	22.8	25.3
PICC-U1412B	PICC-U1412G	3/4-20UNEF	12	14, 14S	17.8	8.0	10.4	10.2	72.2	23.1	27.6	22.8	25.3
PICC-U1812B	PICC-U1812G	1-20UNEF	12	18	24.0	8.0	10.4	10.2	72.3	30.8	27.6	22.8	25.3
PICC-U1616B	PICC-U1616G	7/8-20UNEF	16	16, 16S	21.0	12.3	14.0	10.2	75.4	34.2	33.0	28.0	25.3
PICC-U1816B	PICC-U1816G	1-20UNEF	16	18	24.0	12.3	14.0	10.2	75.2	30.8	33.0	28.0	25.3
PICC-U2016B	PICC-U2016G	1 3/16-18UNEF	16	20, 22	29.0	12.3	14.0	10.2	75.8	27.3	33.0	28.0	25.3
PICC-U2816B	PICC-U2816G	1 7/16-18UNEF	16	24, 28	35.0	12.3	14.0	10.2	75.7	41.3	33.0	28.0	25.3
PICC-U2222B	PICC-U2222G	1 3/16-18UNEF	22	20, 22	29.0	18.7	20.0	10.2	87.8	34.5	43.0	37.5	33.5
PICC-U2822B	PICC-U2822G	1 7/16-18UNEF	22	24, 28	35.0	18.7	20.0	10.2	87.8	41.3	43.0	37.5	33.5
PICC-U2828B	PICC-U2828G	1 7/16-18UNEF	28	24, 28	35.0	26.0	28.0	10.0	95.1	41.3	48.8	43.0	43.0
PICC-U3228B	PICC-U3228G	1 3/4-18UNS	28	32	43.0	26.0	28.0	10.0	95.6	49.4	48.8	43.0	43.0
PICC-U3628B	PICC-U3628G	2-18UNS	28	36	49.5	26.0	28.0	10.0	95.6	56.4	48.8	43.0	43.0
TICC-U3636B	TICC-U3636G	2-18UNS	36	36	49.5	33.0	33.1	10.0	108.3	55.7	60.6	52.2	52.2



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Railroad cars, Industrial / Automatic Machinery, Machine tool, Shipbuilding, etc..

Product Size

Ordering No.							
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PF Thread (JIS B0202)

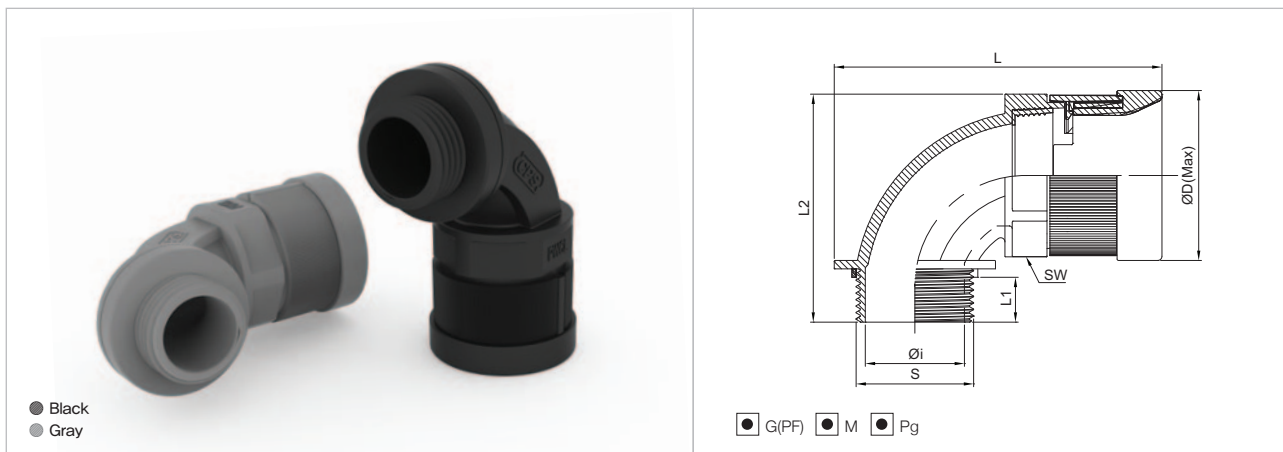
Black	Gray	Thread(inch)	Tube Size	S	L1	L	Øi	ØD	SW
PNCL-G10B	PNCL-G10G	G1/2	10	20.5	9.0	43.5	12.0	24.5	19.7
PNCL-G12B	PNCL-G12G	G1/2	12	20.5	9.0	43.1	15.0	27.6	22.8
PNCL-G16B	PNCL-G16G	G1/2	16	20.5	9.0	45.0	15.2	33.0	28.0

Metric Thread / Straight (EN 60423)

Black	Gray	Thread	Tube Size	S	L1	L	Øi	ØD	SW
PNCL-M10B	PNCL-M10G	M12 X 1.5	10	11.8	9.0	43.5	7.5	24.5	19.7
PNCL-M120B	PNCL-M120G	M16 X 1.5	10	15.8	9.0	43.5	10.0	24.5	19.7
PNCL-M20B	PNCL-M20G	M20 X 1.5	10	19.7	9.0	43.5	15.0	24.5	19.7
PNCL-M102B	PNCL-M102G	M12 X 1.5	12	11.8	9.0	43.1	8.0	27.6	22.8
PNCL-M12B	PNCL-M12G	M16 X 1.5	12	15.8	9.0	43.1	12.0	27.6	22.8
PNCL-M202B	PNCL-M202G	M20 X 1.5	12	19.7	9.0	43.1	15.0	27.6	22.8
PNCL-M126B	PNCL-M126G	M16 X 1.5	16	15.8	9.0	45.0	12.0	33.0	28.0
PNCL-M16B	PNCL-M16G	M20 X 1.5	16	19.7	9.0	45.0	15.2	33.0	28.0
PNCL-M226B	PNCL-M226G	M25 X 1.5	16	24.7	9.0	45.0	20.6	33.0	28.0

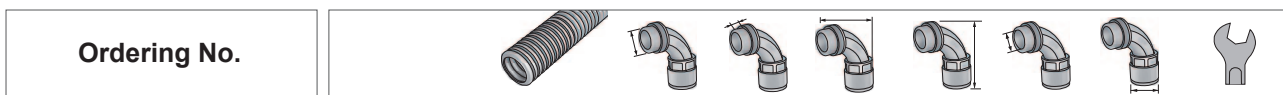
Pg Thread / Straight (DIN 40430)

Black	Gray	Thread	Tube Size	S	L1	L	Øi	ØD	SW
PNCL-P09B	PNCL-P09G	Pg09	10	15.0	9.0	43.5	10.0	24.5	19.7
PNCL-P160B	PNCL-P160G	Pg16	10	22.3	9.0	43.5	15.0	24.5	19.7
PNCL-P0912B	PNCL-P0912G	Pg09	12	15.0	9.0	43.1	12.0	27.6	22.8
PNCL-P11B	PNCL-P11G	Pg11	12	18.3	9.0	43.1	14.0	27.6	22.8
PNCL-P136B	PNCL-P136G	Pg13.5	16	20.2	9.0	45.0	15.2	33.0	28.0
PNCL-P16B	PNCL-P16G	Pg16	16	22.3	9.0	45.0	15.2	33.0	28.0



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Railroad cars, Industrial / Automatic Machinery, Machine tool, Shipbuilding, etc..

Product Size



PF Thread (JIS B0202)

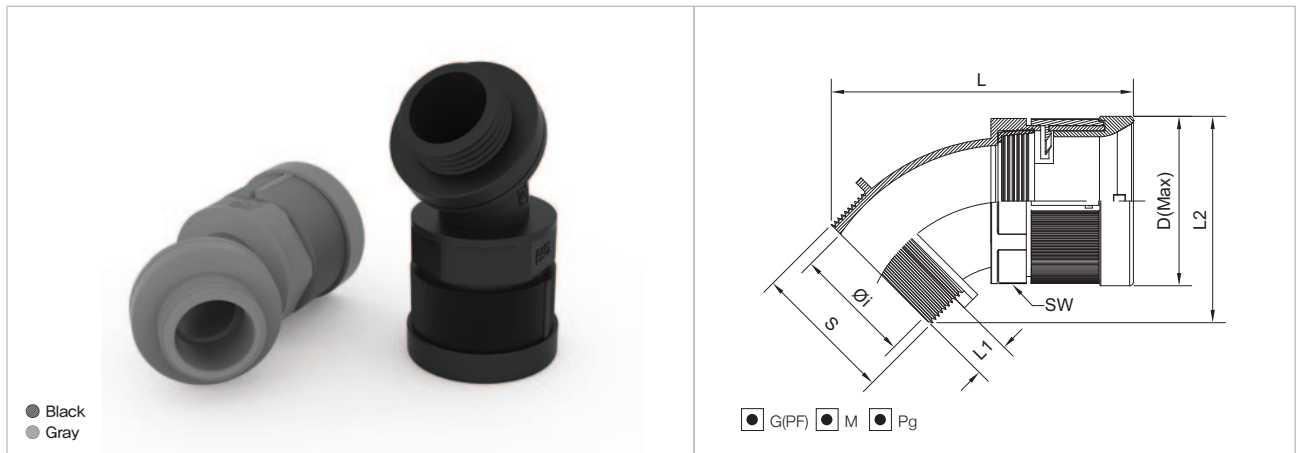
Black	Gray	Thread(inch)	Tube Size	S	L1	L2	L	Øi	ØD	SW
PWCL-G10B	PWCL-G10G	G1/2	10	20.5	9.0	50.8	66.4	15.0	24.5	19.7
PWCL-G12B	PWCL-G12G	G1/2	12	20.5	9.0	50.9	64.9	15.0	27.6	22.8
PWCL-G16B	PWCL-G16G	G1/2	16	20.5	9.0	56.0	71.7	15.2	33.0	28.0

Metric Thread / 90°Elbow (EN 60423)

Black	Gray	Thread	Tube Size	S	L1	L2	L	Øi	ØD	SW
PWCL-M10B	PWCL-M10G	M12 X 1.5	10	11.8	9.0	50.8	66.4	8.0	25.0	19.7
PWCL-M12B	PWCL-M12G	M16 X 1.5	12	15.8	9.0	50.9	64.8	12.0	27.6	22.8
PWCL-M202B	PWCL-M202G	M20 X 1.5	12	19.7	9.0	50.9	64.8	15.0	27.6	22.8
PWCL-M16B	PWCL-M16G	M20 X 1.5	16	19.7	9.0	56.0	71.7	15.0	33.0	28.0

Pg Thread / 90°Elbow (DIN 40430)

Black	Gray	Thread	Tube Size	S	L1	L2	L	Øi	ØD	SW
PWCL-P09B	PWCL-P09G	Pg09	10	15.0	9.0	50.8	66.4	11.0	25.0	19.7
PWCL-P110B	PWCL-P110G	Pg11	10	18.3	9.0	50.8	66.4	13.0	25.0	19.7
PWCL-P130B	PWCL-P130G	Pg13.5	10	20.2	9.0	50.8	66.4	15.0	25.0	19.7
PWCL-P11B	PWCL-P11G	Pg11	12	18.3	9.0	50.9	64.8	13.0	27.6	22.8
PWCL-P132B	PWCL-P132G	Pg13.5	12	20.2	9.0	50.9	64.8	15.0	27.6	22.8
PWCL-P162B	PWCL-P162G	Pg16	12	22.3	9.0	50.9	64.8	15.0	27.6	22.8
PWCL-P136B	PWCL-P136G	Pg13.5	16	20.2	9.0	56.0	71.7	15.0	33.0	28.0
PWCL-P16B	PWCL-P16G	Pg16	16	22.3	9.0	56.0	71.7	17.5	33.0	28.0



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Railroad cars, Industrial / Automatic Machinery, Machine tool, Shipbuilding, etc..

Product Size

Ordering No.									
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PF Thread / 45°Elbow (JIS B0202)

Black	Gray	Thread(inch)	Tube Size	S	L1	L2	L	Øi	ØD	SW
PACL-G10B	PACL-G10G	G1/2	10	20.5	8.8	35.5	62.5	15.0	24.5	19.7
PACL-G12B	PACL-G12G	G1/2	12	20.5	8.8	37.6	62.8	15.0	27.6	22.8
PACL-G16B	PACL-G16G	G1/2	16	20.5	8.8	41.1	66.4	15.2	33.0	28.0

Metric Thread / 45°Elbow (EN 60423)

Black	Gray	Thread	Tube Size	S	L1	L2	L	Øi	ØD	SW
PACL-M10B	PACL-M10G	M12 X 1.5	10	11.8	9.0	32.2	58.2	8.0	25.0	19.7
PACL-M12B	PACL-M12G	M16 X 1.5	12	15.8	9.0	35.8	61.0	12.0	27.6	22.8
PACL-M16B	PACL-M16G	M20 X 1.5	16	19.8	9.0	40.6	66.3	15.2	33.0	28.0

Pg Thread / 45°Elbow (DIN 40430)

Black	Gray	Thread	Tube Size	S	L1	L2	L	Øi	ØD	SW
PACL-P09B	PACL-P09G	Pg09	10	15.0	9.0	34.0	59.4	11.0	25.0	19.7
PACL-P110B	PACL-P110G	Pg11	10	18.3	9.0	34.8	60.5	15.0	25.0	19.7
PACL-P130B	PACL-P130G	Pg13.5	10	20.2	9.0	35.4	62.5	15.0	25.0	19.7
PACL-P11B	PACL-P11G	Pg11	12	18.3	9.0	36.0	62.0	14.0	27.6	22.8
PACL-P136B	PACL-P136G	Pg13.5	16	20.2	9.0	41.1	66.0	15.2	33.0	28.0
PACL-P16B	PACL-P16G	Pg16	16	22.3	9.0	41.8	67.0	17.5	33.0	28.0



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40℃ ~ +105℃
- Short Term : +150℃
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Railroad cars, Industrial / Automatic Machinery, Machine tool, Shipbuilding, etc..

Product Size

Ordering No.								
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PF Thread (JIS B0202)

Black	Gray	Thread(inch)	Tube Size	S	L1	L	Øi	ØO	ØD	SW
PIPC-G16B	PIPC-G16G	G1/2	16	19.3	13.8	45.8	17.8	28.0	33.0	28.0
PIPC-G22B	PIPC-G22G	G3/4	22	24.9	15.0	55.0	20.0	35.5	43.0	37.5
PIPC-G28B	PIPC-G28G	G1	28	31.0	15.0	63.0	28.0	42.0	48.8	43.0

※ Without O-Ring

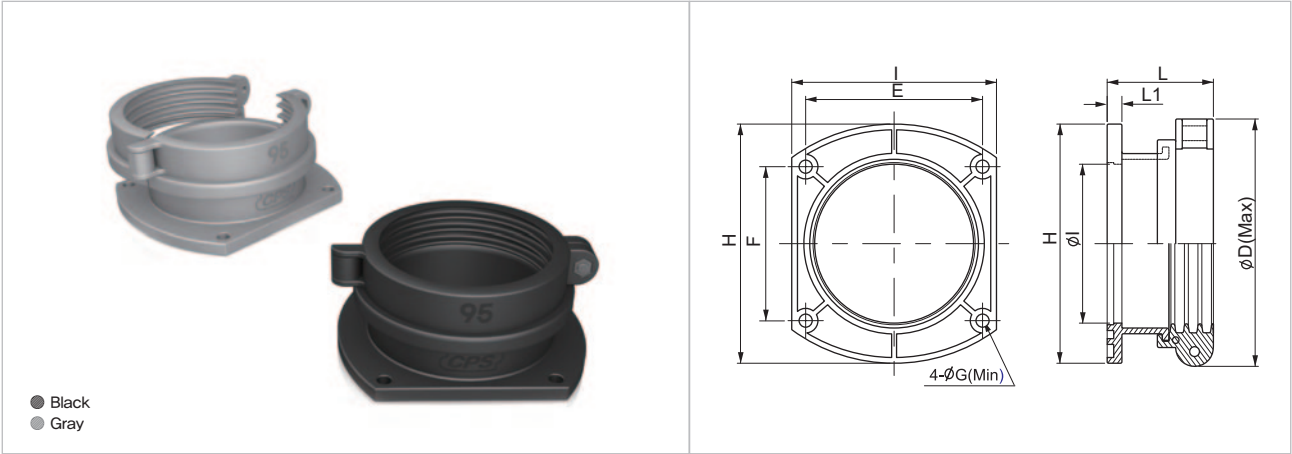


- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40℃ ~ +105℃
- Short Term : +150℃
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Railroad cars, Industrial / Automatic Machinery, Machine tool, Shipbuilding, etc..

Product Size

Ordering No.												
Black	Gray	Tube Size	E	F	G	H	I	L1	L	Øi	ØD	SW
PNOC-12B	PNOC-12G	12	—	36.5	5.5	46.0	32.0	5.0	35.0	15.0	27.6	22.8
PNOC-16B	PNOC-16G	16	—	36.5	5.5	46.0	32.0	5.0	37.0	17.5	33.0	28.0
PNOC-22B	PNOC-22G	22	30.5	53.5	5.5	65.0	45.0	5.0	44.7	22.0	43.0	37.5
PNOC-28B	PNOC-28G	28	31.0	54.8	6.5	65.0	45.0	6.0	53.4	27.0	48.8	43.0
PNOC-36B	PNOC-36G	36	31.0	72.6	6.5	86.6	60.0	6.0	63.6	34.0	60.6	52.2
PNOC-48B	PNOC-48G	48	30.5	72.6	6.5	86.6	73.0	6.0	66.4	50.0	71.8	64.3

TNOC IP55

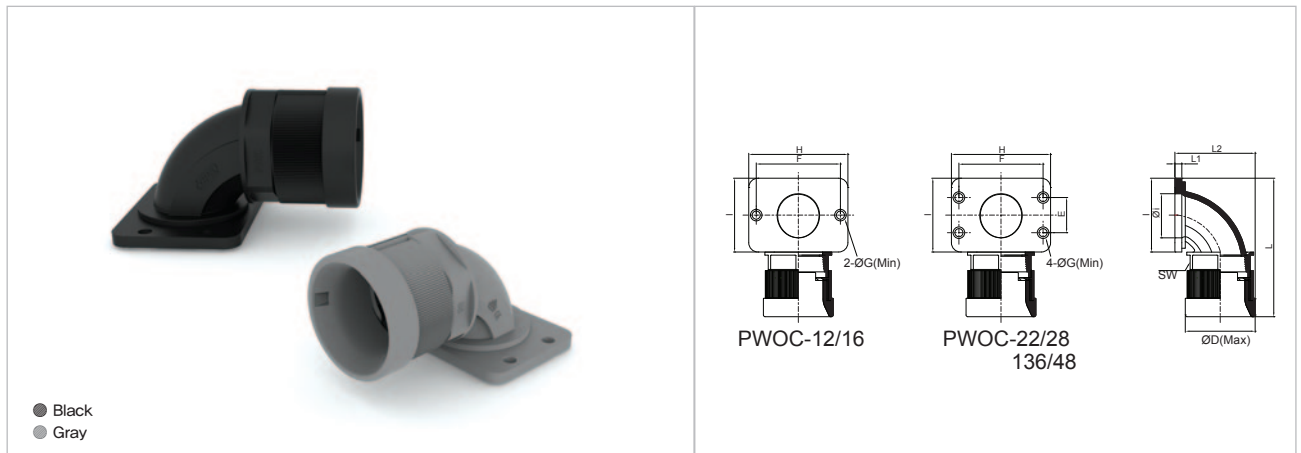


- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 55 (EN 60529)
- The max. Instantaneous Temperature : -40℃ ~ +105℃
- Short Term : +150℃
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Machine tool, Shipbuilding, Tramway, Industrial / Automatic Machinery, Printing Machine etc.
Pipe with connector.

Product Size

Ordering No.

Black	Gray	Tube Size	E	F	G	H	I	L1	L	Øi	ØD	SW
TNOC-56B	TNOC-56G	56	67.0	61.0	7.0	96.2	80.5	4.2	39.0	63.0	98.0	—
TNOC-70B	TNOC-70G	70	84.0	78.0	7.0	112.5	97.5	9.0	52.0	77.0	120.0	—
TNOC-95B	TNOC-95G	95	108.0	94.0	8.0	146.3	124.6	9.0	64.4	97.0	150.0	—

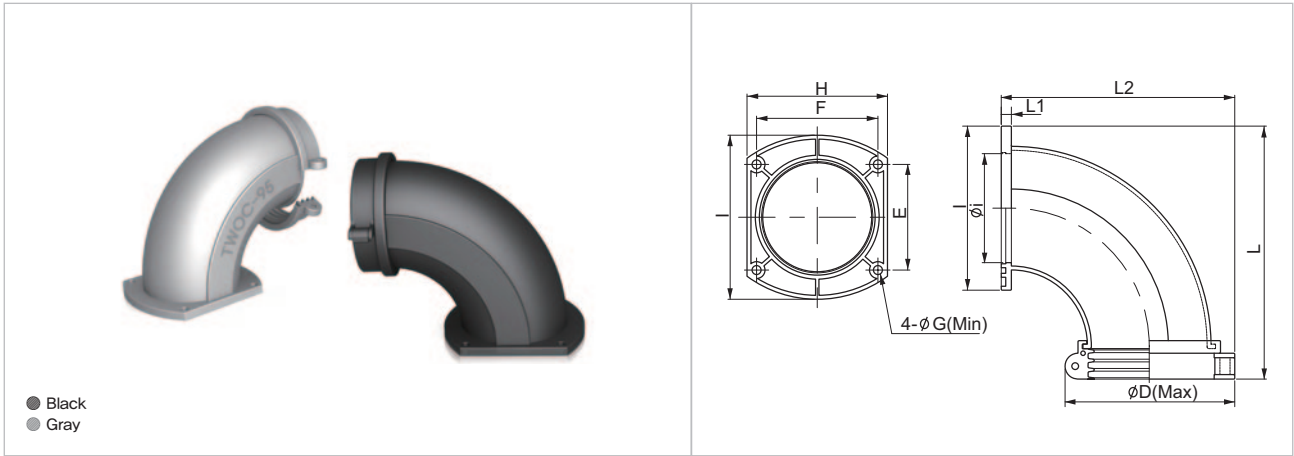


- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Machine tool, Shipbuilding, Tramway, Industrial / Automatic Machinery

Product Size

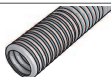


Black	Gray	Tube Size	E	F	G	H	I	L1	L2	L	Øi	ØD	SW
PWOC-12B	PWOC-12G	12	—	36.5	5.5	45.0	32.0	5.0	41.8	68.1	15.0	27.6	22.8
PWOC-16B	PWOC-16G	16	—	36.5	5.5	44.0	32.0	5.0	48.0	72.4	17.5	33.0	28.0
PWOC-22B	PWOC-22G	22	30.5	53.5	5.5	65.0	45.0	5.0	56.4	90.4	22.0	43.0	37.5
PWOC-28B	PWOC-28G	28	31.0	55.0	6.0	65.0	45.0	6.0	66.6	104.9	30.2	48.8	43.0
PWOC-36B	PWOC-36G	36	30.5	73.0	7.0	86.0	64.0	6.0	83.2	133.2	34.0	60.6	52.2
PWOC-48B	PWOC-48G	48	30.5	73.0	7.0	86.0	78.0	6.0	96.0	151.4	50.0	71.8	64.0



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 55 (EN 60529)
- The max. Instantaneous Temperature : -40℃ ~ +105℃
- Short Term : +150℃
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Machine tool, Shipbuilding, Tramway, Industrial / Automatic Machinery

Product Size

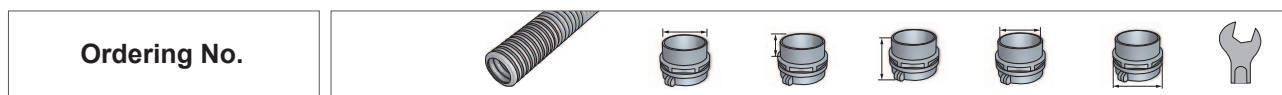
Ordering No.		      											
Black	Gray	Tube Size	E	F	G	H	I	L1	L2	L	øi	øD	SW
TWOC-56B	TWOC-56G	56	61.0	67.0	7.0	81.0	97.4	6.0	125.0	98.0	63.0	98.0	—
TWOC-70B	TWOC-70G	70	78.0	84.0	7.0	98.0	113.0	9.0	180.6	119.5	77.0	119.5	—
TWOC-95B	TWOC-95G	95	94.0	108.0	8.0	125.0	146.0	9.0	206.8	150.0	97.0	150.0	—

※ Include rubber washer & Lock-nut



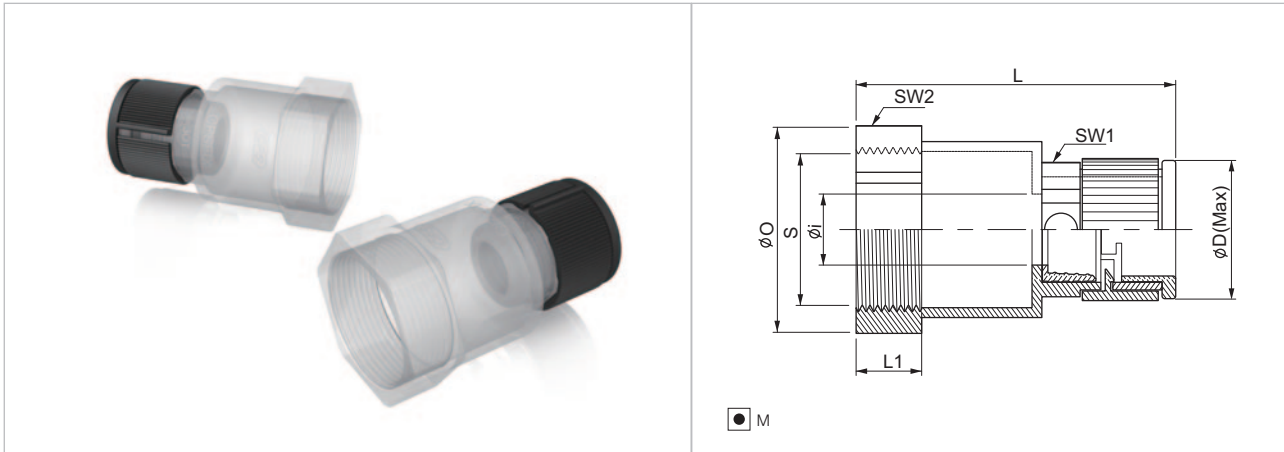
- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 55 (EN 60529)
- The max. Instantaneous Temperature : -40℃ ~ +105℃
- Short Term : +150℃
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Machine tool, Shipbuilding, Tramway, Industrial / Automatic Machinery

Product Size



PF Thread (JIS B0202)

Black	Gray	Thread(inch)	Tube Size	S	L1	L	Øi	ØD	SW
TNRC-G22B	TNRC-G22G	G3/4	22	26.0	15.0	50.8	20.7	50.5	36.7
TNRC-G28B	TNRC-G28G	G1	28	32.8	15.0	49.0	26.2	57.5	42.7
TNRC-G36B	TNRC-G36G	G1 1/4	36	41.2	19.0	60.3	35.2	70.5	52.2
TNRC-G48B	TNRC-G48G	G2	48	59.8	21.0	63.5	51.0	85.2	64.0



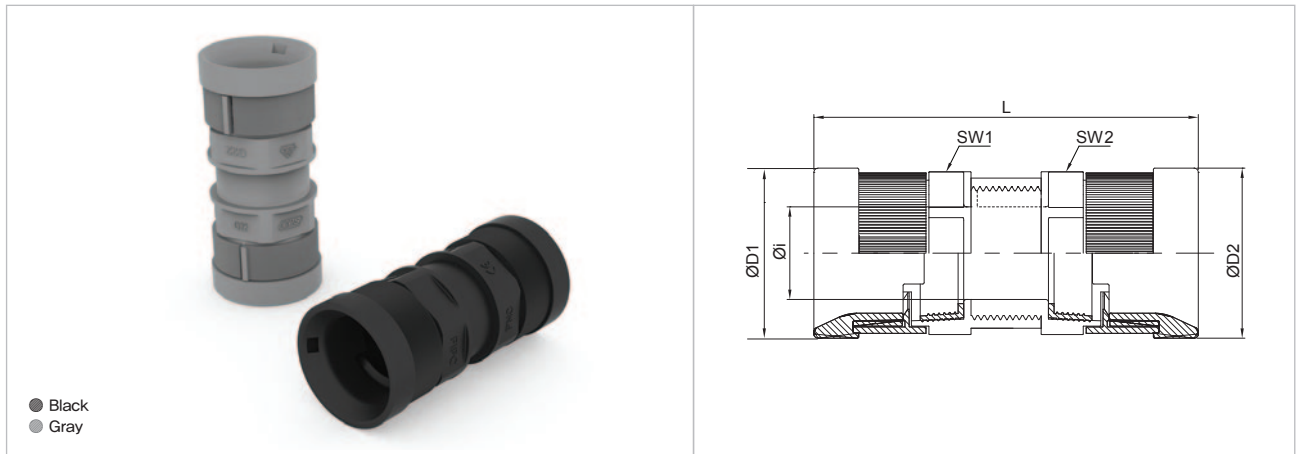
- Material : High Quality Polycarbonate (PC)
- Degrees of Protection : IP 67 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Transparency
- Application : Machine tool, Shipbuilding, Tramway, Industrial / Automatic Machinery

Product Size



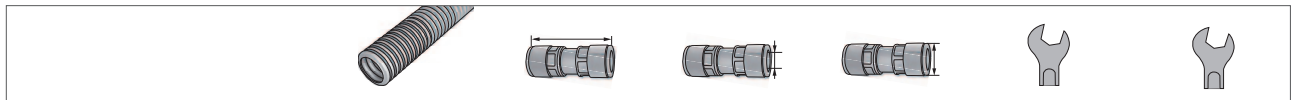
Metric Thread (EN 60423)

Black	Thread	Tube Size	S	L1	L	Øi	ØO	ØD	SW1	SW2
TIS-M08T	M8 X 1.0	10	6.8	12.8	61.5	5.0	17.5	22.5	20.0	16.0
TIS-M12T	M12 X 1.0	10	11.0	12.8	61.5	9.0	20.0	22.5	20.0	18.3
TIS-M18T	M18 X 1.0	10	17.2	12.8	61.5	9.0	24.0	22.5	20.0	22.0
TIS-M30T	M30 X 1.5	10	28.6	12.8	61.5	9.0	38.0	22.5	20.0	34.0



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 67 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Railroad cars that vibrate severely. Used for connecting Tubes at each end side

Product Size



Black	Gray	Tube Size	L	Øi	ØD1	ØD2	SW1	SW2
PNSC-1007B	PNSC-1007G	10 + 07	69.4	8.5	24.5	18.0	19.7	14.0
PNSC-10B	PNSC-10G	10 + 10	77.2	10.2	24.5	24.5	19.7	19.7
PNSC-1207B	PNSC-1207G	12 + 07	68.8	8.5	27.6	18.0	22.8	14.0
PNSC-1210B	PNSC-1210G	12 + 10	77.2	12.0	27.6	24.5	22.8	19.7
PNSC-12B	PNSC-12G	12 + 12	78.0	13.2	27.6	27.6	22.8	22.8
PNSC-1610B	PNSC-1610G	16 + 10	80.2	10.2	33.0	24.5	28.0	19.7
PNSC-1612B	PNSC-1612G	16 + 12	79.8	15.0	33.0	27.6	28.0	22.8
PNSC-16B	PNSC-16G	16 + 16	81.7	15.0	33.0	33.0	28.0	28.0
PNSC-22B	PNSC-22G	22 + 22	100.5	20.0	43.0	43.0	37.5	37.5
PNSC-28B	PNSC-28G	28 + 28	116.8	27.0	48.8	48.8	43.0	43.0



- **Feature** : CPS distributors guarantee elegant layout and save on cost instead of using distribution boxes.
Available to use not only their basic shape TYC, TTC & TVC but also various configurations.
One Standard model can be changed into 6 different shapes.
Nominal width from 28, reduceable to 10.

Ordering

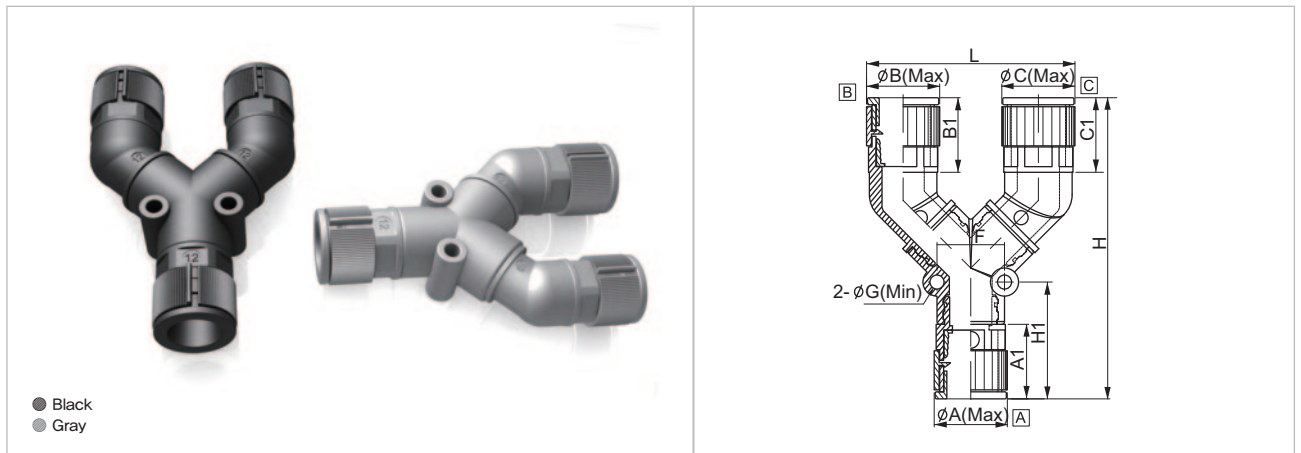
TVC – 10 10 10B : 100EA

- Q'ty
- Color (B : Black / G : Gray)
- Divided Hole 2 C
- Divided Hole 1 B
- Basic Hole A
- CPSFIX



Product Size

Black	Gray	ØA	A1	ØB	B1	ØC	C1	ØG	F	H1	H	L
TVC-101010B	TVC-101010G	22,3	26,6	22,3	26,6	22,3	26,6	5,0	24,0	41,5	87,2	80,5
TVC-121010B	TVC-121010G	25,0	26,6	22,3	26,6	22,3	26,6	5,0	24,0	41,5	87,2	80,5
TVC-121210B	TVC-121210G	25,0	26,6	25,0	26,6	22,3	26,6	5,0	24,0	41,5	88,2	81,5
TVC-121212B	TVC-121212G	25,0	26,6	25,0	26,6	25,0	26,6	5,0	24,0	41,5	88,2	82,5
TVC-161010B	TVC-161010G	29,8	28,5	22,3	26,6	22,3	26,6	5,0	24,0	43,5	89,5	80,5
TVC-161210B	TVC-161210G	29,8	28,5	25,0	26,6	22,3	26,6	5,0	24,0	43,5	89,9	81,5
TVC-161212B	TVC-161212G	29,8	28,5	25,0	26,6	25,0	26,6	5,0	24,0	43,5	90,0	82,5
TVC-161616B	TVC-161616G	29,8	28,5	29,8	28,5	29,8	28,5	5,0	24,0	43,5	93,4	88,8
TVC-222222B	TVC-222222G	40,8	33,3	40,8	33,3	40,8	33,3	6,0	39,0	48,0	112,0	111,4
TVC-282222B	TVC-282222G	46,6	39,0	40,8	33,3	40,8	33,3	6,0	39,0	54,0	118,0	112,0
TVC-282822B	TVC-282822G	46,6	39,0	46,6	39,0	40,8	33,3	6,0	39,0	54,0	124,1	117,6
TVC-282828B	TVC-282828G	46,6	39,0	46,6	39,0	46,6	39,0	6,0	39,0	54,0	124,1	123,7

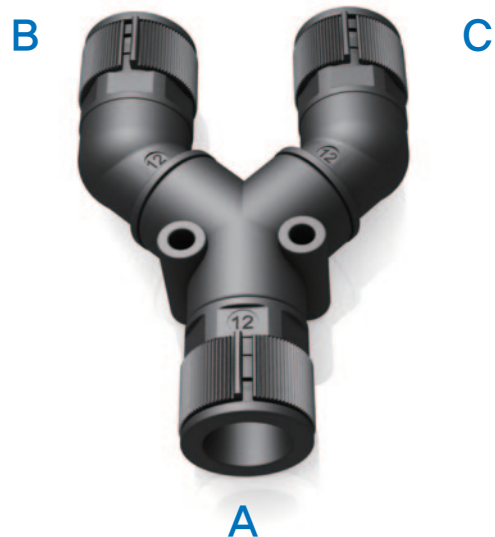


- Feature : CPS distributors guarantee elegant layout and save on cost instead of using distribution boxes. Available to use not only their basic shape TYC, TTC & TVC but also various configurations. One Standard model can be changed into 6 different shapes. Nominal width from 28, reduceable to 10.

Ordering

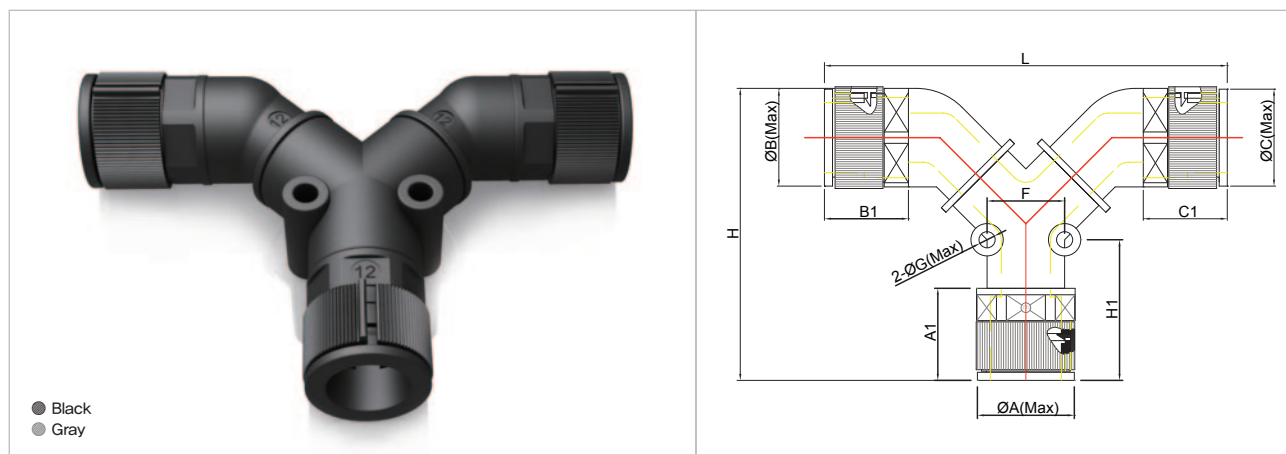
TYC – 10 10 10B : 100EA

- Q'ty
- Color (B : Black / G : Gray)
- Divided Hole 2 C
- Divided Hole 1 B
- Basic Hole A
- CPSFIX



Product Size

Black	Gray	Ø A	A1	Ø B	B1	Ø C	C1	Ø G	F	H1	H	L
TYC-101010B	TYC-101010G	22,5	26,6	22,5	30,0	22,5	30,0	5,0	24,0	41,6	104,0	67,0
TYC-121010B	TYC-121010G	25,0	26,5	22,5	30,0	22,5	30,0	5,0	24,0	41,5	104,0	67,0
TYC-121210B	TYC-121210G	25,0	26,5	25,0	24,4	22,5	30,0	5,0	24,0	41,5	107,0	69,7
TYC-121212B	TYC-121212G	25,0	26,5	25,0	24,4	25,0	24,4	5,0	24,0	41,5	107,0	72,5
TYC-161010B	TYC-161010G	30,0	28,5	22,5	30,0	22,5	30,0	5,0	24,0	43,5	105,7	67,0
TYC-161210B	TYC-161210G	30,0	28,5	25,0	24,4	22,5	30,0	5,0	24,0	43,5	108,7	69,7
TYC-161212B	TYC-161212G	30,0	28,5	25,0	24,4	25,0	24,4	5,0	24,0	43,5	108,7	73,0
TYC-161616B	TYC-161616G	30,0	28,5	30,0	26,0	30,0	26,0	5,0	24,0	43,5	110,8	81,7
TYC-222222B	TYC-222222G	41,0	33,3	41,0	33,5	41,0	33,5	6,1	39,0	43,5	134,5	108,0
TYC-282222B	TYC-282222G	47,0	39,0	41,0	33,5	41,0	33,5	6,1	39,0	54,0	139,2	108,0
TYC-282822B	TYC-282822G	47,0	39,0	47,0	39,0	41,0	33,5	6,1	39,0	54,0	149,5	111,5
TYC-282828B	TYC-282828G	47,0	39,0	47,0	39,0	47,0	39,0	6,1	39,0	54,0	149,5	113,5

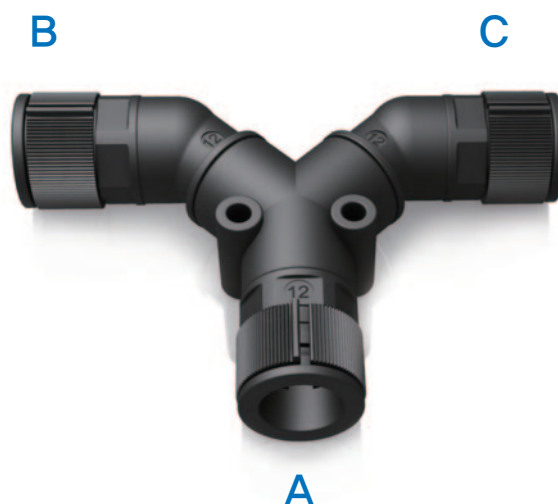


- Feature : CPS distributors guarantee elegant layout and save on cost instead of using distribution boxes.
Available to use not only their basic shape TYC, TTC & TVC but also various configurations.
One Standard model can be changed into 6 different shapes.
Nominal width from 28, reduceable to 10.

Ordering

TTC – 10 10 10B : 100EA

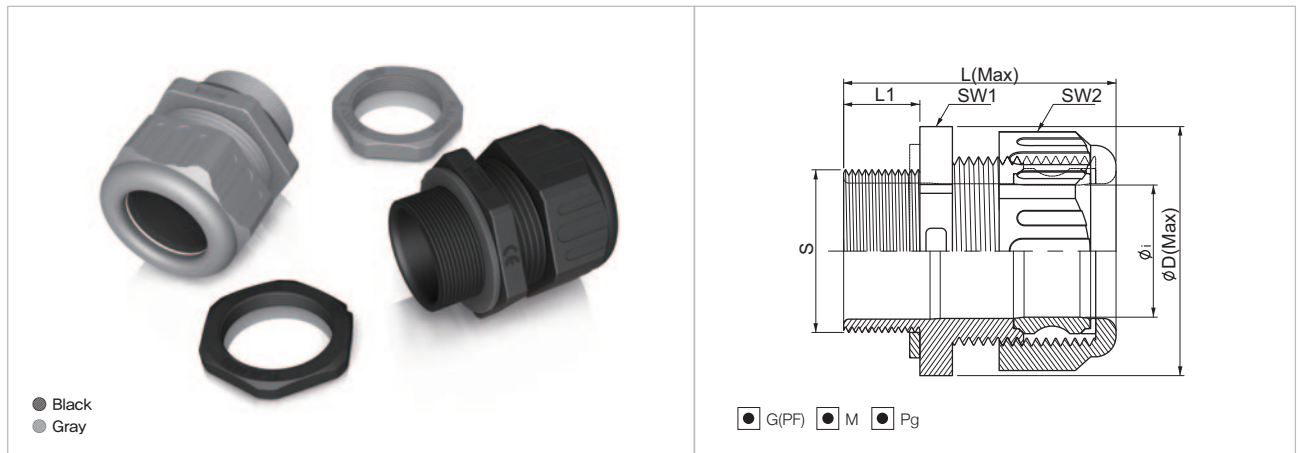
- Q'ty
- Color (B : Black / G : Gray)
- Divided Hole 2 C
- Divided Hole 1 B
- Basic Hole A
- CPSFIX



Product Size

Black	Gray	Ø A	A1	Ø B	B1	Ø C	C1	Ø G	F	H1	H	L
TTC-101010B	TTC-101010G	22.5	26.6	22.5	30.0	22.5	30.0	5.0	24.0	41.6	81.0	114.0
TTC-121010B	TTC-121010G	25.0	26.5	22.5	30.0	22.5	30.0	5.0	24.0	41.5	81.0	114.0
TTC-121210B	TTC-121210G	25.0	26.5	25.0	24.4	22.5	30.0	5.0	24.0	41.5	83.0	117.0
TTC-121212B	TTC-121212G	25.0	26.5	25.0	24.4	25.0	24.4	5.0	24.0	41.5	83.0	120.0
TTC-161010B	TTC-161010G	30.0	28.5	22.5	30.0	22.5	30.0	5.0	24.0	43.5	82.0	113.0
TTC-161210B	TTC-161210G	30.0	28.5	25.0	24.4	22.5	30.0	5.0	24.0	43.5	85.0	118.0
TTC-161212B	TTC-161212G	30.0	28.5	25.0	24.4	25.0	24.4	5.0	24.0	43.5	85.0	120.0
TTC-161616B	TTC-161616G	30.0	28.5	30.0	26.0	30.0	26.0	5.0	24.0	43.5	90.0	125.0
TTC-222222B	TTC-222222G	41.0	33.3	41.0	33.5	41.0	33.5	6.1	39.0	43.2	110.0	155.0
TTC-282222B	TTC-282222G	41.0	39.0	41.0	33.5	41.0	33.5	6.1	39.0	54.0	115.0	155.0
TTC-282822B	TTC-282822G	47.0	39.0	47.0	39.0	41.0	33.5	6.1	39.0	54.0	120.0	165.0
TTC-282828B	TTC-282828G	47.0	39.0	47.0	39.0	47.0	39.0	6.1	39.0	54.0	120.0	175.0

※ Include rubber washer & Lock-nut



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Connector for control box radio box or cables from electric machine.
Water & Dust, Oil proof halogen free.

Product Size

Ordering No.								
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PF Thread (JIS B0202)

Black	Gray	Thread(inch)	Øi(Min)	Øi(Max)	S	L1	L	ØD	SW1	SW2
FCG-G10B	FCG-G10G	G1/2	3.5	7.0	20.5	15.0	42.0	25.0	22.6	18.0
FCG-G12B	FCG-G12G	G1/2	4.0	8.8	20.5	15.0	45.7	29.0	25.4	20.5
FCG-G16B	FCG-G16G	G1/2	6.5	13.0	20.5	15.0	46.2	28.4	25.4	25.6
FCG-G1622B	FCG-G1622G	G1/2	11.0	19.0	20.5	15.0	52.8	38.4	34.0	34.2
FCG-G22B	FCG-G22G	G3/4	11.0	19.0	26.2	15.0	52.8	38.4	34.0	34.2
FCG-G228B	FCG-G228G	G3/4	17.5	26.2	26.2	15.0	52.0	48.5	43.2	42.3
FCG-G28B	FCG-G28G	G1	17.5	26.2	32.8	15.0	52.0	48.5	43.2	42.0
FCG-G36B	FCG-G36G	G1 1/4	21.0	33.3	41.7	19.0	67.4	58.0	52.5	51.6
FCG-G48B	FCG-G48G	G2	33.5	45.2	59.0	19.0	66.8	73.0	66.5	67.0

Ordering No.



Metric Thread (EN 60423)

Black	Gray	Thread	Øi 최소)	Øi(Max)	S	L1	L	ØD	SW1	SW2
FCG-M10B	FCG-M10G	M12 X 1.5	3.5	7.0	11.8	15.0	43.0	25.4	22.6	18.0
FCG-M120B	FCG-M120G	M16 X 1.5	3.5	7.0	15.8	15.0	43.0	25.4	22.6	18.0
FCG-M102B	FCG-M102G	M12 X 1.5	4.0	8.8	11.8	15.0	47.5	28.6	25.4	21.0
FCG-M12B	FCG-M12G	M16 X 1.5	4.0	8.8	15.8	15.0	45.0	28.6	25.4	20.5
FCG-M162B	FCG-M162G	M20 X 1.5	4.0	8.8	19.8	15.0	45.0	28.6	25.4	20.5
FCG-M126B	FCG-M126G	M16 X 1.5	6.5	13.0	15.8	15.0	46.3	28.8	25.4	25.6
FCG-M16B	FCG-M16G	M20 X 1.5	6.5	13.0	19.8	15.0	46.3	28.8	25.4	25.6
FCG-M1622B	FCG-M1622G	M20 X 1.5	11.0	19.0	19.8	15.0	53.5	38.4	34.0	34.0
FCG-M22B	FCG-M22G	M25 X 1.5	11.0	19.0	24.7	15.0	52.5	38.4	34.0	34.0
FCG-M228B	FCG-M228G	M25 X 1.5	17.5	26.2	24.7	15.0	53.5	48.5	43.2	42.0
FCG-M28B	FCG-M28G	M32 X 1.5	17.5	26.2	31.7	15.0	52.5	48.5	43.2	42.0
FCG-M36B	FCG-M36G	M40 X 1.5	21.0	33.3	39.6	19.0	67.0	58.0	52.5	51.6
FCG-M48B	FCG-M48G	M50 X 1.5	33.5	45.2	49.6	19.0	66.0	73.0	66.5	67.0

Pg Thread (DIN 40430)

Black	Gray	Thread	Øi (Min)	Øi (Max)	S	L1	L	ØD	SW1	SW2
FCG-P07B	FCG-P07G	Pg07	3.5	7.0	12.3	15.0	45.2	25.4	22.6	18.0
FCG-P09B	FCG-P09G	Pg09	3.5	7.0	14.9	15.0	43.0	25.4	22.6	18.0
FCG-P072B	FCG-P072G	Pg07	4.0	8.8	12.3	15.0	47.5	28.6	25.4	21.0
FCG-P092B	FCG-P092G	Pg09	4.0	8.8	14.9	15.0	47.5	28.6	25.4	21.0
FCG-P11B	FCG-P11G	Pg11	4.0	8.8	18.3	15.0	45.6	25.2	25.4	20.5
FCG-P132B	FCG-P132G	Pg13.5	4.0	8.8	20.2	15.0	47.5	28.6	25.4	21.0
FCG-P162B	FCG-P162G	Pg16	4.0	8.8	22.3	15.0	45.6	28.2	25.4	20.5
FCG-P096B	FCG-P096G	Pg09	6.5	13.0	14.9	15.0	46.5	28.2	25.4	25.6
FCG-P116B	FCG-P116G	Pg11	6.5	13.0	18.3	15.0	48.0	28.8	25.4	25.6
FCG-P13B	FCG-P13G	Pg13.5	6.5	13.0	20.2	15.0	46.5	28.2	25.4	25.6
FCG-P16B	FCG-P16G	Pg16	6.5	13.0	22.3	15.0	46.5	28.8	25.4	25.6
FCG-P122B	FCG-P122G	Pg11	11.0	19.0	18.3	15.0	53.5	38.4	34.0	34.2
FCG-P1322B	FCG-P1322G	Pg13.5	11.0	19.0	20.2	15.0	53.5	38.4	34.0	34.2
FCG-P1622B	FCG-P1622G	Pg16	11.0	19.0	22.3	15.0	53.5	38.4	34.0	34.2
FCG-P21B	FCG-P21G	Pg21	11.0	19.0	28.0	15.0	53.5	38.4	34.0	34.2
FCG-P218B	FCG-P218G	Pg21	17.5	26.2	28.0	15.0	52.0	48.5	43.0	42.3
FCG-P29B	FCG-P29G	Pg29	17.5	26.2	36.8	15.0	52.0	48.5	43.0	42.3
FCG-P36B	FCG-P36G	Pg36	21.0	33.3	46.7	19.0	67.8	58.5	52.5	51.6
FCG-P48B	FCG-P48G	Pg48	33.5	45.2	59.0	19.0	67.2	73.0	66.5	66.7



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 68 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : up +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Connector for control box radio box or cables from electric machine.
Water & Dust, Oil proof halogen free.

Product Size

Ordering No.										
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PF Thread (JIS B0202)

Black	Gray	Thread(inch)	Øi(Min)	Øi(Max)	S	L1	L	ØD	SW1	SW2
FCGL-G10B	FCGL-G10G	G1/2	3.5	6.5	20.8	9.0	42.0	25.0	22.6	18.0
FCGL-G12B	FCGL-G12G	G1/2	4.0	8.8	20.8	9.0	45.7	29.0	25.4	20.5
FCGL-G16B	FCGL-G16G	G1/2	7.0	13.0	20.8	9.0	46.2	28.4	25.4	25.6

Metric Thread (EN 60423)

Black	Gray	Thread	Øi(Min)	Øi(Max)	S	L1	L	ØD	SW1	SW2
FCGL-M10B	FCGL-M10G	M12 X 1.5	3.5	6.5	11.8	9.0	43.0	25.4	22.6	18.0
FCGL-M120B	FCGL-M120G	M16 X 1.5	3.5	7.0	15.8	9.0	43.0	25.4	22.6	18.0
FCGL-M102B	FCGL-M102G	M12 X 1.5	4.0	8.8	11.8	9.0	41.5	28.6	25.4	21.0
FCGL-M12B	FCGL-M12G	M16 X 1.5	4.0	8.8	15.8	9.0	45.0	28.6	25.4	21.0
FCGL-M162B	FCGL-M162G	M20 X 1.5	4.0	8.8	19.8	9.0	45.5	28.6	25.4	21.0
FCGL-M126B	FCGL-M126G	M16 X 1.5	6.5	13.0	15.8	9.0	46.3	28.8	25.4	25.6
FCGL-M16B	FCGL-M16G	M20 X 1.5	6.5	13.0	19.8	9.0	46.3	28.8	25.4	25.6
FCGL-M216B	FCGL-M216G	M25 X 1.5	17.5	26.2	24.7	9.0	47.0	48.5	43.2	42.3

Pg Thread (DIN 40430)

Black	Gray	Thread	Øi(Min)	Øi(Max)	S	L1	L	ØD	SW1	SW2
FCGL-P09B	FCGL-P09G	Pg09	3.5	6.5	14.9	9.0	43.0	25.4	22.6	18.0
FCGL-P092B	FCGL-P092G	Pg09	4.0	8.8	14.9	9.0	39.2	28.6	25.4	21.0
FCGL-P11B	FCGL-P11G	Pg11	4.0	8.8	18.3	9.0	45.6	25.2	25.4	20.5
FCGL-P132B	FCGL-P132G	Pg13.5	4.0	8.8	20.2	9.0	39.2	28.6	25.4	21.0
FCGL-P162B	FCGL-P162G	Pg16	4.0	8.8	22.3	9.0	45.6	28.2	25.4	20.5
FCGL-P116B	FCGL-P116G	Pg11	6.5	13.0	18.3	9.0	42.0	28.8	25.4	25.6
FCGL-P13B	FCGL-P13G	Pg13.5	6.5	13.0	20.2	9.0	46.5	28.2	25.4	25.6
FCGL-P16B	FCGL-P16G	Pg16	6.5	13.0	22.3	9.0	46.5	28.8	25.4	25.6



- Material : High Quality Polyamide 6 (PA6)
- Degrees of Protection : IP 67 (EN 60529)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Connector for control box radio box or cables from electric machine.
Water & Dust, Oil proof halogen free.

Product Size



UNEF Thread (ASME B1.1)

Black	Gray	Thread	Shell Size	S	Øi(Min)	Øi(Max)	L1	L	ØO	ØD	SW1	SW2
TICG-U1010B	TICG-U1010G	1/2-28UNEF	8S, 10S	13.0	3.5	7.0	10.0	43.9	17.4	25.4	22.6	18.0
TICG-U1210B	TICG-U1210G	5/8-24UNEF	10SL, 12S	15.0	3.5	7.0	10.0	43.9	19.6	25.4	22.6	18.0
TICG-U1410B	TICG-U1410G	3/4-20UNEF	14, 14S	18.0	3.5	7.0	10.0	43.9	23.0	25.4	22.6	18.0
TICG-U1610B	TICG-U1610G	7/8-20UNEF	16, 16S	21.0	3.5	7.0	10.0	43.9	27.0	25.4	22.6	18.0
TICG-U1810B	TICG-U1810G	1-20UNEF	18	24.0	3.5	7.0	10.0	43.9	30.0	25.4	22.6	18.0
TICG-U2010B	TICG-U2010G	1 3/16-18UNEF	20, 22	28.5	3.5	7.0	10.0	43.9	34.5	25.4	22.6	18.0
TICG-U1212B	TICG-U1212G	5/8-24UNEF	10SL, 12S	15.0	4.0	8.9	10.0	46.2	19.6	28.5	25.5	20.6
TICG-U1412B	TICG-U1412G	3/4-20UNEF	14, 14S	18.0	4.0	8.9	10.0	46.2	23.0	28.5	25.5	20.6
TICG-U1612B	TICG-U1612G	7/8-20UNEF	16, 16S	21.0	4.0	8.9	10.0	46.2	27.0	28.5	25.5	20.6
TICG-U1812B	TICG-U1812G	1-20UNEF	18	24.0	4.0	8.9	10.0	46.2	30.0	28.5	25.5	20.6
TICG-U2012B	TICG-U2012G	1 3/16-18UNEF	20, 22	28.5	4.0	8.9	10.0	46.2	34.5	28.5	25.5	20.6
TICG-U2812B	TICG-U2812G	1 7/16-18UNEF	24, 28	35.0	4.0	8.9	10.0	46.2	41.0	28.5	25.5	20.6
TICG-U1616B	TICG-U1616G	7/8-20UNEF	16, 16S	21.0	7.0	13.4	10.0	47.2	27.0	28.5	25.5	25.5
TICG-U1816B	TICG-U1816G	1-20UNEF	18	24.0	7.0	13.4	10.0	47.2	30.0	28.5	25.5	25.5
TICG-U2016B	TICG-U2016G	1 3/16-18UNEF	20, 22	28.5	7.0	13.4	10.0	47.2	34.5	28.5	25.5	25.5
TICG-U2816B	TICG-U2816G	1 7/16-18UNEF	24, 28	35.0	7.0	13.4	10.0	47.2	41.0	28.5	25.5	25.5
TICG-U2222B	TICG-U2222G	1 3/16-18UNEF	20, 22	28.5	12.0	19.6	10.0	53.4	34.5	37.6	34.0	34.0
TICG-U2822B	TICG-U2822G	1 7/16-18UNEF	24, 28	35.0	12.0	19.6	10.0	53.4	41.0	37.6	34.0	34.0
TICG-U3222B	TICG-U3222G	1 3/4-18UNS	32	43.0	12.0	19.6	10.0	53.4	49.0	49.0	34.0	34.0
TICG-U2828B	TICG-U2828G	1 7/16-18UNEF	24, 28	35.0	18.0	26.5	10.0	53.4	41.2	48.5	43.0	42.2
TICG-U3228B	TICG-U3228G	1 3/4-18UNS	32	43.0	18.0	26.5	10.0	53.4	49.0	48.0	43.0	42.2
TICG-U3628B	TICG-U3628G	2-18UNS	36	49.5	18.0	26.5	10.0	53.4	55.7	48.0	43.0	42.2
TICG-U3636B	TICG-U3636G	2-18UNS	36	49.5	22.0	39.8	10.0	63.7	55.7	58.5	52.5	52.0

MCG IP68



- Material : Brass Nickel plated
 - O-Ring Material : Silicone
 - Seal Material : Silicone
 - Degrees of Protection : IP68 (EN 60529)
 - The max. Instantaneous Temperature : -40°C ~ +125°C
 - Short Term : +200°C
 - Application : Railroad cars, Machine tool, Shipbuilding, Tramway, Industrial / Automatic Machinery
- ※ Without O-ring & Lock-nut

Product Size



Pg Thread (DIN 40430)

Steel	Thread	Øi(Min)	Øi(Max)	H	GL	SW
MCG-P0705LW	Pg 07	3.0	5.0	21.0	10	17
MCG-P0707LW	Pg 07	4.0	6.5	21.0	10	17
MCG-P0906LW	Pg 09	4.0	6.0	24.0	10	20
MCG-P0907LW	Pg 09	4.5	7.0	24.0	10	20
MCG-P0908LW	Pg 09	5.0	8.0	24.0	10	20
MCG-P0909LW	Pg 09	6.0	9.0	24.0	10	20
MCG-P0910LW	Pg 09	7.0	10.0	24.0	10	20
MCG-P1107LW	Pg 11	4.5	7.00	25.5	10	20/22
MCG-P1108LW	Pg 11	5.0	8.0	25.5	10	20/22
MCG-P1109LW	Pg 11	6.0	9.0	25.5	10	20/22
MCG-P1110LW	Pg 11	7.0	10.0	25.5	10	20/22
MCG-P13512LW	Pg 13.5	8.0	12.0	28.5	10	24
MCG-P13513LW	Pg 13.5	9.0	13.0	28.5	10	24
MCG-P1610LW	Pg 16	7.0	10.0	28.5	12	20/24
MCG-P1612LW	Pg 16	8.0	12.0	28.5	12	24
MCG-P1613LW	Pg 16	9.0	13.0	28.5	12	24/30
MCG-P2112LW	Pg 21	8.0	12.0	28.5	12	24/32
MCG-P2113LW	Pg 21	9.0	13.0	28.5	12	24/32
MCG-P2115LW	Pg 21	11.0	15.0	30.0	12	30/32
MCG-P2117LW	Pg 21	13.0	17.0	30.0	12	30/32
MCG-P2118LW	Pg 21	14.0	18.0	30.0	12	30/32
MCG-P2121LW	Pg 21	17.0	21.0	31.0	12	36/34
MCG-P2915LW	Pg 29	11.0	15.0	30.5	12	30/40
MCG-P2917LW	Pg 29	13.0	17.0	30.5	12	30/40
MCG-P2918LW	Pg 29	14.0	18.0	30.5	12	30/40
MCG-P2921LW	Pg 29	17.0	21.0	31.5	12	36/40
MCG-P2922LW	Pg 29	18.0	22.0	31.5	12	36/40
MCG-P2924LW	Pg 29	19.0	24.0	34.0	12	40
MCG-P2926LW	Pg 29	21.0	26.0	37.5	12	50
MCG-P3621LW	Pg 36	17.0	21.0	32.5	15	36/50
MCG-P3622LW	Pg 36	18.0	22.0	32.5	15	36/50

Product Size

Ordering No.					
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Pg Thread (DIN 40430)

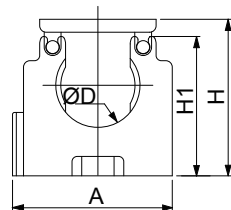
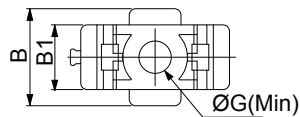
Steel	Thread	Øi(Min)	Øi(Max)	H	GL	SW
MCG-P3626LW	Pg 36	21.0	26.0	37.5	15	50
MCG-P3628LW	Pg 36	24.0	28.0	37.5	15	50
MCG-P3630LW	Pg 36	25.0	30.0	37.5	15	50
MCG-P3632WCR	Pg 36	20.0	32.0	49.0	15	50
MCG-P4231LW	Pg 42	26.0	31.0	39.5	15	57/60
MCG-P4236LW	Pg 42	31.0	35.5	39.5	15	57/60
MCG-P4240LW	Pg 42	36.0	40.0	39.5	15	57/60
MCG-P4845LW	Pg 48	39.0	45.0	40.0	15	68

Metric Thread (DIN 40430)

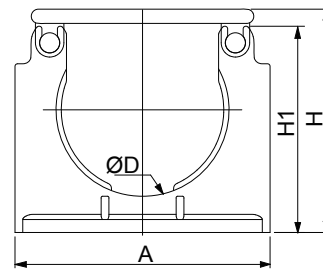
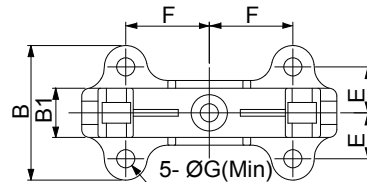
Steel	Thread	Øi(Min)	Øi(Max)	H	GL	SW
MCG-M1205LW	M12X1.5	3.0	5.0	21.0	10	17
MCG-M1207LW	M12X1.5	4.0	6.5	21.0	10	17
MCG-M1606LW	M16X1.5	4.0	6.0	24.0	10	20
MCG-M1607LW	M16X1.5	4.5	7.0	24.0	10	20
MCG-M1608LW	M16X1.5	5.0	8.0	24.0	10	20
MCG-M1610LW	M16X1.5	7.0	10.0	24.0	10	20
MCG-M2007LW	M20X1.5	4.5	7.0	25.5	10	20/22
MCG-M2008LW	M20X1.5	5.0	8.0	25.5	10	20/22
MCG-M2010LW	M20X1.5	7.0	10.0	25.5	10	20/22
MCG-M2012LW	M20X1.5	8.0	12.0	28.5	10	24
MCG-M2013LW	M20X1.5	9.0	13.0	28.5	10	24
MCG-M2512LW	M25X1.5	8.0	12.0	28.5	12	24/30
MCG-M2513LW	M25X1.5	9.0	13.0	28.5	12	24/30
MCG-M2514LW	M25X1.5	10.0	14.0	30.0	12	30
MCG-M2515LW	M25X1.5	11.0	15.0	30.0	12	30
MCG-M2517LW	M25X1.5	13.0	17.0	30.0	12	30
MCG-M2518LW	M25X1.5	14.0	18.0	30.0	12	30
MCG-M3214LW	M32X1.5	10.0	14.0	31.0	12	30/36
MCG-M3215LW	M32X1.5	11.0	15.0	31.0	12	30/36
MCG-M3217LW	M32X1.5	13.0	17.0	31.0	12	30/36
MCG-M3218LW	M32X1.5	14.0	18.0	31.0	12	30/36
MCG-M3221LW	M32X1.5	17.0	21.0	32.0	12	36
MCG-M3222LW	M32X1.5	18.0	22.0	32.0	12	36
MCG-M4021LW	M40X1.5	17.0	21.0	32.5	15	36/45
MCG-M4022LW	M40X1.5	18.0	22.0	32.5	15	36/45
MCG-M4026LW	M40X1.5	21.0	26.0	37.5	15	50
MCG-M4028LW	M40X1.5	24.0	28.0	37.5	15	50
MCG-M4030LW	M40X1.5	25.0	30.0	37.5	15	50
MCG-M5031LW	M50X1.5	26.0	31.0	39.5	15	57
MCG-M5036LW	M50X1.5	31.0	35.5	39.5	15	57
MCG-M5040LW	M50X1.5	36.0	40.0	39.5	15	57
MCG-M6345LW	M63X1.5	39.0	45.0	40.0	15	68



- Material : High Quality Polyamide 6 (PA6)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Fixing tubes
By making more screw holes, the clip is more stable and the hinge cover is easy to use. This new clip was developed to facilitate straight arrangement and be installable at any size.



NFH-07



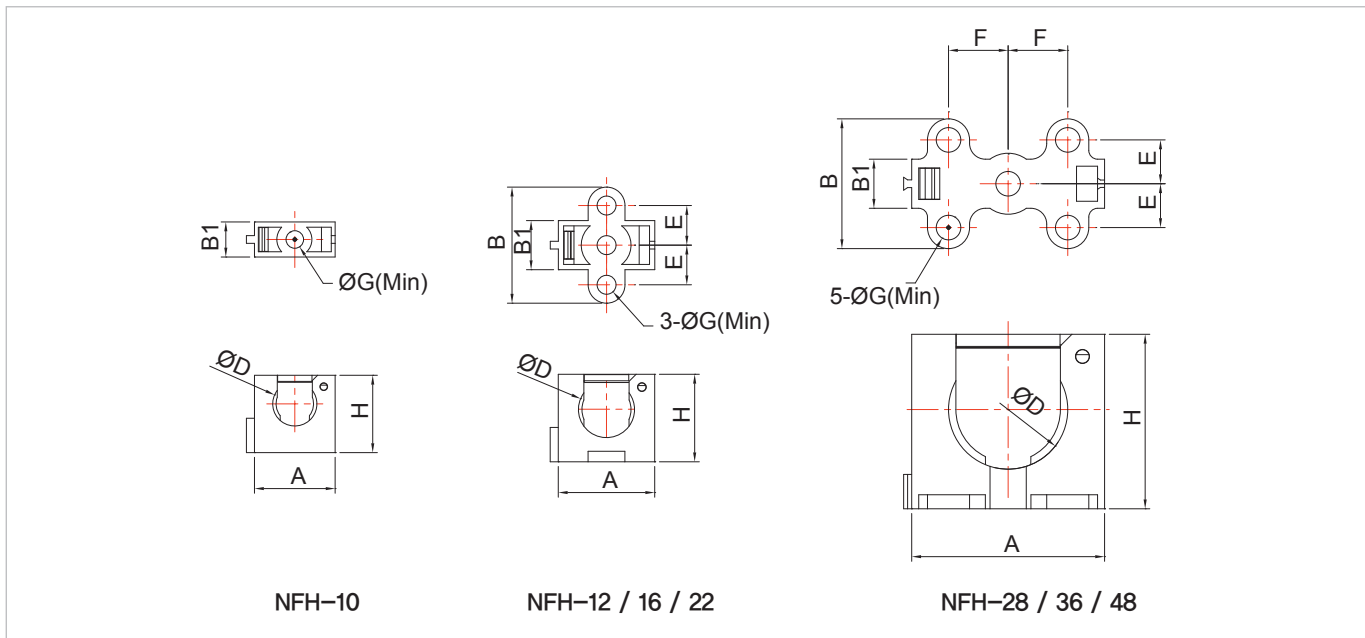
NFH-56 / 70 / 95

Product Size

Black	Gray	Tube Size	ØD	A	H	H1	B	B1	E	F	ØG	Bolt
NFH-07B	NFH-07G	07	10.0	16.6	20.6	17.9	14.5	10.0	—	—	5.0	1-M4
NFH-56B	NFH-56G	56	66.5	99.0	86.3	79.7	52.0	19.0	17.75	32.30	6.4	5-M6
NFH-70B	NFH-70G	70	82.0	121.0	105.6	97.6	63.0	23.0	21.50	39.50	8.7	5-M8
NFH-95B	NFH-95G	95	105.3	155.4	136.5	125.8	82.0	30.0	28.00	51.70	8.7	5-M8

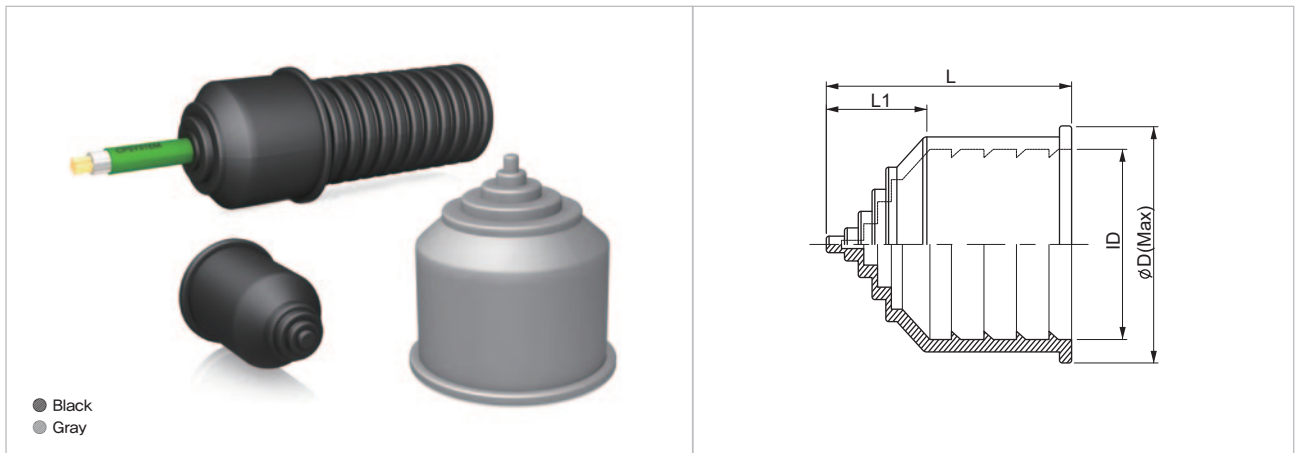


- Material : High Quality Polyamide 6 (PA6)
- The max. Instantaneous Temperature : -40°C ~ +105°C
- Short Term : +150°C
- Self-Extinguishing : UL94-HB
- Eco-friendly : Free of Halogen & cadmium
- Color : Black & Gray
- Application : Fixing tubes
By making more screw holes, the clip is more stable and the hinge cover is easy to use.
This new clip was developed to facilitate straight arrangement and be installable at any size.



Product Size

Black	Gray	Tube Size	ØD	A	H	B	B1	E	F	ØG	Bolt
NFH-10B	NFH-10G	10	13.0	23.0	22.0	—	10.0	—	—	5.0	1-M4
NFH-12B	NFH-12G	12	16.0	27.5	25.0	33.0	14.0	11.3	—	5.4	3-M5
NFH-16B	NFH-16G	16	21.4	34.3	33.0	35.9	14.0	12.0	—	5.4	3-M5
NFH-22B	NFH-22G	22	28.0	45.5	41.7	37.9	14.0	12.0	—	6.4	3-M6
NFH-28B	NFH-28G	28	34.0	55.0	49.7	36.9	14.0	12.5	17.0	7.0	5-M6
NFH-36B	NFH-36G	36	42.0	66.0	60.3	41.5	14.0	13.5	18.8	7.0	5-M6
NFH-48B	NFH-48G	48	53.7	84.9	73.7	41.5	14.0	13.5	28.0	7.0	5-M6



- Material : N.B.R(Nitrile-Gutadiene Rubber) / C.R (Chloroprene Rubber)
- Degrees of Protection : IP67 (EN 60529)
- Color : Black & Gray
- Application : Finishing touches for cables to be exposed externally

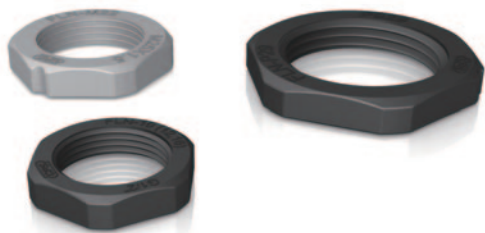
Product Size

Ordering No.								
								

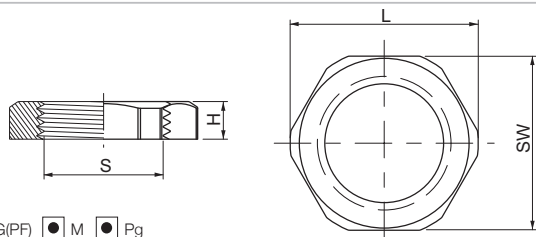
Black	Gray	Tube Size	Min	Max	L 1	L	ID	Ø D
FEC-07B	FEC-07G	07	2.0	7.0	9.5	26.0	10.0	17.0
FEC-10B	FEC-10G	10	3.0	10.0	9.2	30.5	12.5	19.5
FEC-12B	FEC-12G	12	4.2	12.0	12.0	34.5	16.0	23.5
FEC-16B	FEC-16G	16	6.0	16.0	11.0	34.8	21.0	29.0
FEC-22B	FEC-22G	22	6.0	22.0	12.5	43.0	28.5	37.0
FEC-28B	FEC-28G	28	6.0	28.0	14.0	41.0	34.0	43.0
FEC-36B	FEC-36G	36	6.0	36.0	22.5	57.5	42.0	54.0
FEC-48B	FEC-48G	48	6.0	48.0	21.5	56.5	54.5	64.0
FEC-56B	FEC-56G	56	9.0	56.0	29.0	70.2	65.0	76.5
FEC-70B	FEC-70G	70	10.0	70.0	38.5	85.2	85.5	92.0
FEC-95B	FEC-95G	95	13.0	95.0	43.2	108.0	106.0	116.5

FLN

• Material : High Quality Polyamide 6



● Black
● Gray



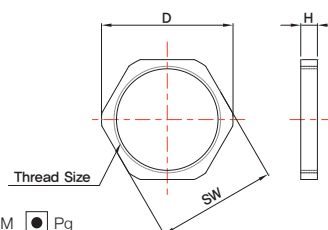
● G(PF) ● M ● Pg

SLN

• Material : Brass Nickel plated



Steel



● G(PF) ● M ● Pg

Product Size

PF Thread (JIS B0202)

Black	Gray	Thread(inch)	S	H	L	SW
FLN-G07B	FLN-G07G	G1/4	11.7	6.0	20.9	19.0
FLN-G10B	FLN-G10G	G1/2	19.0	6.0	29.5	27.3
FLN-G12B	FLN-G12G	G1/2	19.0	6.0	29.5	27.3
FLN-G16B	FLN-G16G	G1/2	19.0	6.0	29.5	27.3
FLN-G22B	FLN-G22G	G3/4	24.4	6.8	38.7	36.0
FLN-G28B	FLN-G28G	G1	31.0	6.8	48.0	44.0
FLN-G36B	FLN-G36G	G1 1/4	39.3	8.0	52.4	49.0
FLN-G42B	FLN-G42G	G1 1/2	45.0	8.0	71.0	65.0
FLN-G48B	FLN-G48G	G2	57.0	8.0	72.0	70.0

Steel	Thread(inch)	H	D	SW
SLN-G07	G1/4	5.0	20.7	19.0
SLN-G10	G1/2	5.0	30.0	27.0
SLN-G12	G1/2	5.0	30.0	27.0
SLN-G16	G1/2	5.0	30.0	27.0
SLN-G22	G3/4	5.0	39.5	36.0
SLN-G28	G1	5.0	51.0	46.0
SLN-G36	G1 1/4	5.0	55.5	50.0
SLN-G42	G1 1/2	5.0	61.0	55.0
SLN-G48	G2	5.5	71.5	65.0

Metric Thread (EN 60423)

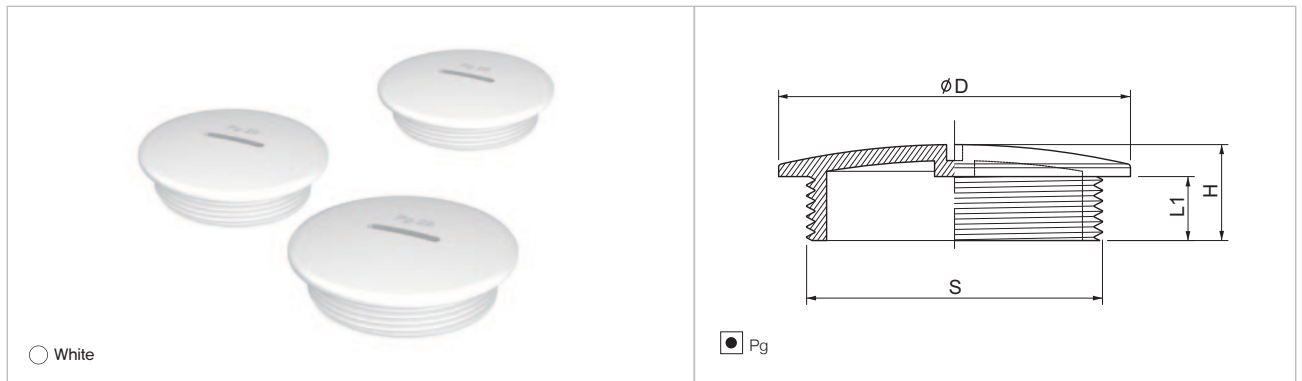
Black	Gray	Thread	S	H	L	SW
FLN-M10B	FLN-M10G	M12 X 1.5	10.3	6.0	18.6	17.0
FLN-M12B	FLN-M12G	M16 X 1.5	14.3	6.0	24.0	22.0
FLN-M16B	FLN-M16G	M20 X 1.5	18.3	6.0	28.0	26.0
FLN-M22B	FLN-M22G	M25 X 1.5	23.3	6.8	35.6	33.0
FLN-M28B	FLN-M28G	M32 X 1.5	30.3	6.8	43.6	40.0
FLN-M36B	FLN-M36G	M40 X 1.5	38.5	8.0	54.0	50.0
FLN-M48B	FLN-M48G	M50 X 1.5	48.5	8.0	65.8	60.0

Steel	Thread	H	D	SW
SLN-M10	M12 X 1.5	2.8	16.6	15.0
SLN-M12	M16 X 1.5	3.0	21.0	19.0
SLN-M16	M20 X 1.5	3.5	26.5	24.0
SLN-M22	M25 X 1.5	4.0	33.0	30.0
SLN-M28	M32 X 1.5	5.0	39.5	36.0
SLN-M36	M40 X 1.5	5.0	51.0	46.0
SLN-M48	M50 X 1.5	5.0	66.0	60.0

Pg Thread (DIN 40430)

Black	Gray	Thread	S	H	L	SW
FLN-P07B	FLN-P07G	Pg07	11.5	4.0	21.1	19.0
FLN-P09B	FLN-P09G	Pg09	14.0	4.0	24.0	22.0
FLN-P11B	FLN-P11G	Pg11	17.7	6.0	25.9	24.0
FLN-P13B	FLN-P13G	Pg13.5	19.2	6.0	29.0	27.0
FLN-P16B	FLN-P16G	Pg16	21.3	6.0	32.2	30.0
FLN-P21B	FLN-P21G	Pg21	27.3	6.8	38.8	36.0
FLN-P29B	FLN-P29G	Pg29	35.8	6.8	50.0	46.0
FLN-P36B	FLN-P36G	Pg36	46.0	8.0	65.3	60.0
FLN-P48B	FLN-P48G	Pg48	58.3	8.0	76.8	70.0

Steel	Thread	H	D	SW
SLN-P07	Pg07	2.8	16.6	15.0
SLN-P09	Pg09	2.8	20.0	18.0
SLN-P11	Pg11	3.0	23.5	21.0
SLN-P13	Pg13.5	3.0	25.5	23.0
SLN-P16	Pg16	3.0	29.0	26.0
SLN-P21	Pg21	3.5	35.5	32.0
SLN-P29	Pg29	4.0	45.0	41.0
SLN-P36	Pg36	5.0	56.0	51.0
SLN-P42	Pg42	5.0	66.0	60.0
SLN-P48	Pg48	5.5	70.5	64.0



- Material : High Quality Polyamide 6 (PA6)
- The max. Instantaneous Temperature : -30°C ~ +80°C
- Short Term : +150°C
- Color : White
- Application : Connector hole cover

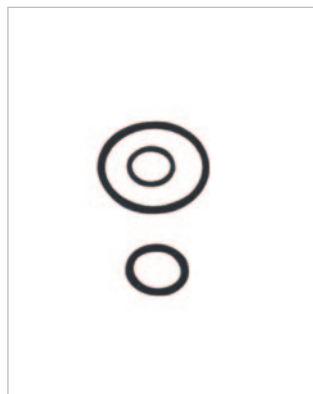
Product Size

Ordering No.				
				

Pg Thread (DIN 40430)

White	Thread	S	L1	H	ØD
BBS-P07W	Pg07	12.3	6.0	8.0	15.0
BBS-P09W	Pg09	14.9	6.0	9.5	19.0
BBS-P11W	Pg11	18.3	6.5	10.5	22.0
BBS-P13W	Pg13.5	20.2	6.0	10.0	25.0
BBS-P16W	Pg16	22.3	6.0	10.0	27.0
BBS-P21W	Pg21	28.0	8.0	12.0	33.0
BBS-P29W	Pg29	36.8	8.0	12.0	44.0
BBS-P36W	Pg36	46.7	10.0	15.0	55.0

FWH



PF(G) Thread

—
FWH-G10
FWH-G12
FWH-G16
FWH-G22
FWH-G28
FWH-G36
FWH-G42
FWH-G48

Metric Thread

—
FWH-M10
FWH-M12
FWH-M16
FWH-M22
FWH-M28
FWH-M36
—
FWH-M48

Pg Thread (단위 : mm)

FWH-P07
FWH-P09
FWH-P11
FWH-P13
FWH-P16
FWH-P21
FWH-P29
FWH-P36
FWH-P48

