



# R-Loc<sup>®</sup>

## Industrial Cable Glands



**Raychem RPG (P) Ltd.**   
(A TE Connectivity - RPG Enterprises JV)





Corporate Head Quarters



Chakan Plant



Vasai Plant

Raychem RPG (P) Ltd. is a 50:50 Joint Venture company between TE Connectivity, USA. (a Fortune 500 Company) and RPG Enterprises, India (one of the top 10 business houses in India).

TE Connectivity (formerly Tyco Electronics), U.S.A. is a US\$ 15 billion conglomerate & World's largest manufacturer for passive Electronic components business and Engineering Products & Services.

RPG Enterprises, India is one of the Top 10 business houses in India with interests in Power Generation, Distribution & Transmission, Cables, IT & Communication, Life Sciences, Automotive, Retail & Entertainment Sectors and a revenue exceeding US\$ 4 billion.

Raychem RPG was incorporated in 1984. The company has been involved in technologies serving the infrastructure sector, supplying multi business engineering products and solutions worldwide. Constant innovation is a way of life at Raychem RPG that leads to new solutions to meet new challenges of the future. A whopping CAGR of 40% for last 5 years stands testimony to this spirit of the company.

Raychem RPG has 5 state-of-the-art manufacturing plants spanned across India. Our Core competencies lie into the manufacturing of Heat Shrinkable Cable Accessories products, Fibre Cable Accessories, Transformers, Gas Meters, Cathodic Protection Systems, Customized engineering components and Cable Clamping Products.

Raychem RPG Limited is an ISO 9001, ISO 14001 & OHSAS 18001 company, certified by Lloyd's Register of Quality Assurance Limited, UK.

**PLANT APPROVALS**

**PRODUCT APPROVAL**



ISO 9001:2008



ISO 14001:2004



OHSAS 18001:2007



BS 6121 As per UL

**PRODUCT OVERVIEW**

Raychem RPG designs and manufactures cable glands and accessories conforming to the prevailing industry standards including EN50262:1999 and BS6121:Part 1:1989. Raychem RPG holds a host of internationally recognized approvals, and its product range is manufactured under a 3rd Party approved Quality Managements System conforming to ISO 9001 : 2008 and ISO 14001 : 2004.

The Raychem RPG range of industrial cable glands embraces products used in a wide and diverse variety of market sectors, in conjunction with virtually every kind of industrial cable installation. With a wealth of experience in terminating all types of armoured and unarmoured cables Raychem RPG has discovered that when it comes to such critical installations, quality and reliability really do count.

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**APPLICATION INDUSTRIES**



**PRODUCT APPLICATIONS**



## INTRODUCTION TO CABLE GLANDS

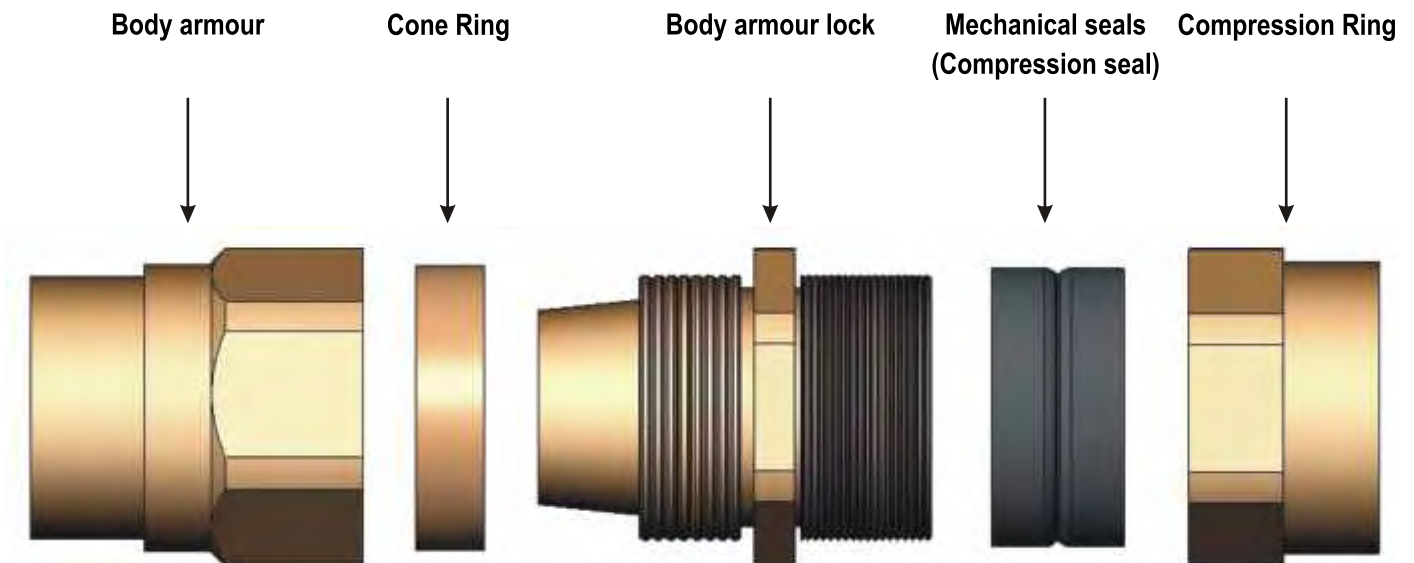
Cable Glands are mechanical cable entry devices, which can be constructed from metallic or non-metallic materials. They are used throughout all industries in conjunction with cable and wiring used in the electrical, instrumentation and automation systems. They are used as a sealing and terminating device to ensure that the characteristics of the enclosure, which the cable enters, can be maintained adequately.



### Main Function of the Cable Gland:

- Environmental protection by sealing on the outer cable sheath
- Earth continuity in the case of armoured cables
- To provide a holding force on the cable to ensure adequate levels of cable pull out resistance
- To provide additional sealing on the part of the cable entering the enclosure, when a high degree of ingress protection is required
- When used in hazardous areas they are required to maintain the level of protection of the equipment to which they are attached

## CABLE GLAND CONSTRUCTION



- **Body armour** houses power cable and supports in clamping cable to junction boxes or external body
- **Mechanical seals** (compression & displacement type seals) are used to provide ingress protection to cable gland assembly
- **Cone Ring** is used to clamp cable armour and support cable in gland body armour lock
- **Compression Ring** is used to house mechanical seal & provide outer sealing to cable
- **Lock Nut** is used to lock cable gland assembly in junction boxes or external body
- **Earth Tag** is used to maintain earth conductivity from cable to junction boxes or external body
- **Shrouds** are used to increase ingress protection and protect cable gland assembly from physical damage

**UL APPROVAL**

R-Loc Industrial Cable Glands are approved by UL as per BS6121: Part I standards.

R-Loc glands are tested and verified for below tests,

**Mechanical Tests :** Cable Retention Test, Anchorage Test (Jerk + Torque) & Impact Test

**Electrical Tests :** Continuity Test & Insulation Test

**Ingress Protection Test**

**TYPES OF INDUSTRIAL CABLE GLANDS**



- Armoured cables SWA/AWA
- Dry Indoor application
- No Sealing

**BW Cable Gland**



- Unarmoured cables
- Indoor & Outdoor application
- Displacement Sealing

**A1/A2 Cable Gland**



- Armoured cables SWA
- Indoor & Outdoor application
- Compression Sealing

**CW Cable Gland**



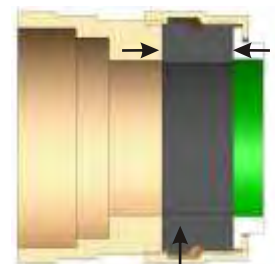
- Armoured cables SWA & Lead Sheathed
- Indoor & Outdoor application
- Compression & Displacement Sealing

**E1W Cable Gland**

**SEALING METHODS USED FOR CABLE INNER BEDDING**

**Compression Sealing**

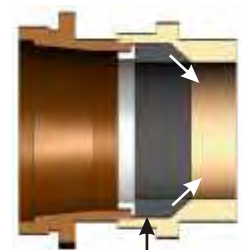
The Compression Seal is an elastomeric sealing ring that has a V groove or weak back in its design that is intended to be closed. This is done to create a downward seal on the cable inner bedding, when the same compressive force is equally applied to both sides of the seal.



**Compression Seal**

**Displacement Sealing**

The Displacement Seal does not employ a weak back design. Instead the Displacement Seal is gradually pushed down a taper until it makes an effective seal on the cable.



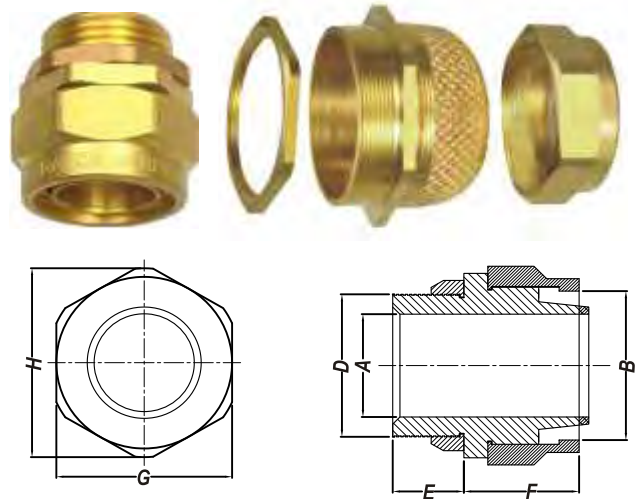
**Displacement Seal**

## BW INDUSTRIAL CABLE GLAND

Raychem RPG BW type brass indoor cable gland is used with all types of Steel Wire Armour (SWA) and Aluminum Wire Armour (AWA) cable providing mechanical cable retention and electrical continuity via armour wire termination.

Raychem RPG BW range of industrial cable glands is designed and tested to BS6121:2005 by UL.

TECHNICAL DATA	
Type	BW
Design Specification	BS6121:Part 1: 2005
Gland Sizes	16mm (5/8") - 90 mm (3 1/2")
Ingress Protection	IP3X
Gland Material	Brass
Operating Temperature	-80°C to 300°C
Armour Clamping	Two Part Armour Lock
Finish	Natural Brass or Nickel Plated
Cable Types	Steel Wire Armour (SWA) Aluminium Wire Armour (AWA)
Application	Dry Indoor
Accessories	Lock Nut, Earth Tag & Shrouds

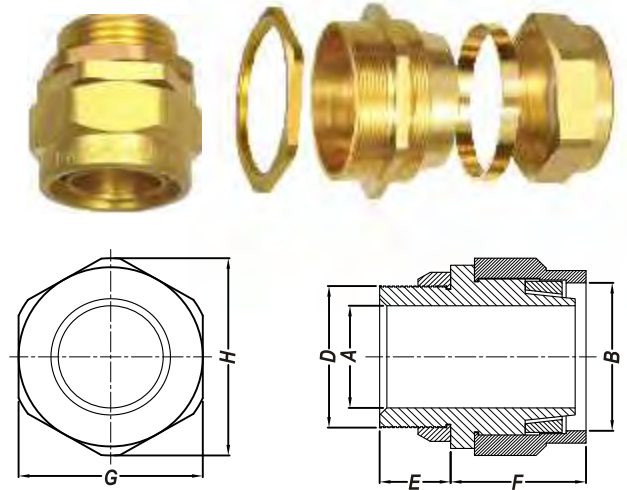


Size	Cable Dimensions				Gland Dimensions					Product Code
	Under Armour Dia. A Max.	Overall Dia. B Max.	Armour Wire Dia		ISO Entry Thread Length		Approx length from shoulder	Hexagon Size		
			min.	max.	D mm	E mm		F mm	G mm	
16 S	8.00	12.00	0.9	1.25	16.00	10.00	23.00	20.00	23.00	RRPLBW - 16 S
16	8.60	13.50	0.9	1.25	16.00	10.00	23.00	20.00	23.00	RRPLBW - 16
20 S	12.30	17.00	0.9	1.25	20.00	10.00	23.00	23.00	24.00	RRPLBW - 20 S
20	14.30	20.00	0.9	1.25	20.00	10.00	30.00	25.00	27.00	RRPLBW - 20
25 S	18.00	23.80	1.25	1.60	25.00	10.00	30.00	31.00	32.50	RRPLBW - 25 S
25	20.40	27.00	1.25	1.60	25.00	10.00	32.00	30.00	38.50	RRPLBW - 25
32	26.50	33.00	1.60	2.0	32.00	10.00	36.00	41.50	45.50	RRPLBW - 32
40 S	31.00	37.00	1.60	2.0	40.00	10.00	36.00	45.00	50.00	RRPLBW - 40 S
40	32.50	43.00	1.60	2.0	40.00	15.00	40.00	49.00	54.00	RRPLBW - 40
50 S	37.80	48.00	2.0	2.5	50.00	15.00	40.00	58.00	65.00	RRPLBW - 50 S
50	44.00	53.00	2.0	2.5	50.00	15.00	45.00	62.30	69.50	RRPLBW - 50
63 S	50.50	60.50	2.5	2.5	63.00	15.00	45.00	70.00	77.00	RRPLBW - 63 S
63	56.50	65.50	2.5	2.5	63.00	15.00	50.00	76.30	85.00	RRPLBW - 63
75 S	62.50	72.00	2.5	2.5	75.00	15.00	50.00	85.00	95.00	RRPLBW - 75 S
75	67.50	78.50	2.5	2.5	75.00	15.00	75.00	90.50	99.00	RRPLBW - 75
90 S	75.00	85.00	3.15	3.15	90.00	20.00	55.00	100.00	110.00	RRPLBW - 90 S
90 L	78.50	89.00	3.15	3.15	90.00	20.00	55.00	112.00	120.00	RRPLBW - 90 L

## BWL HEAVY DUTY INDUSTRIAL CABLE GLAND

Raychem RPG BWL type brass indoor cable gland is used with all types of Steel Wire Armour (SWA) and Aluminum Wire Armour (AWA) cable providing mechanical cable retention and electrical continuity via armour wire termination. The heavy duty BWL design offers the benefit of a longer body to protect the armour wires from impact. The Raychem RPG BWL range of industrial cable gland is designed and tested to BS6121:2005 by UL.

TECHNICAL DATA	
Type	BWL
Design Specification	BS6121:Part 1: 2005
Gland Sizes	16mm (5/8") - 90 mm (3 1/2")
Ingress Protection	IP3X
Gland Material	Brass
Operating Temperature	-80°C to 300°C
Armour Clamping	Three Part Armour Lock
Finish	Natural Brass or Nickel Plated
Cable Types	Steel Wire Armour (SWA) Aluminium Wire Armour (AWA)
Application	Dry Indoor
Accessories	Lock Nut, Earth Tag & Shrouds



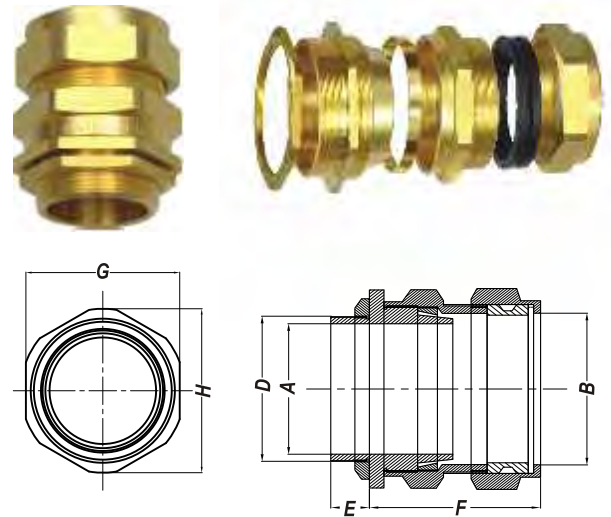
Size	Cable Dimensions				Gland Dimensions					Product Code
	Under Armour Dia. A Max.	Overall Dia. B Max.	Armour Wire Dia		ISO Entry Thread		Approx length from shoulder	Hexagon Size		
			min.	max.	D mm	E mm		Across flat	Across corners	
mm	mm					F mm	G mm	H mm		
16 S	8.00	12.00	0.9	1.25	16.00	10.00	23.00	20.00	23.00	RRPLBWL - 16 S
16	8.60	13.50	0.9	1.25	16.00	10.00	23.00	20.00	23.00	RRPLBWL - 16
20 S	12.30	17.00	0.9	1.25	20.00	10.00	23.00	23.00	24.00	RRPLBWL - 20 S
20	14.30	20.00	0.9	1.25	20.00	10.00	30.00	25.00	27.00	RRPLBWL - 20
25 S	18.00	23.80	1.25	1.60	25.00	10.00	30.00	31.00	32.50	RRPLBWL - 25 S
25	20.40	27.00	1.25	1.60	25.00	10.00	32.00	30.00	38.50	RRPLBWL - 25
32	26.50	33.00	1.60	2.0	32.00	10.00	36.00	41.50	45.50	RRPLBWL - 32
40 S	31.00	37.00	1.60	2.0	40.00	10.00	36.00	45.00	50.00	RRPLBWL - 40 S
40	32.50	43.00	1.60	2.0	40.00	15.00	40.00	49.00	54.00	RRPLBWL - 40
50 S	37.80	48.00	2.0	2.5	50.00	15.00	40.00	58.00	65.00	RRPLBWL - 50 S
50	44.00	53.00	2.0	2.5	50.00	15.00	45.00	62.30	69.50	RRPLBWL - 50
63 S	50.50	60.50	2.5	2.5	63.00	15.00	45.00	70.00	77.00	RRPLBWL - 63 S
63	56.50	65.50	2.5	2.5	63.00	15.00	50.00	76.30	85.00	RRPLBWL - 63
75 S	62.50	72.00	2.5	2.5	75.00	15.00	50.00	85.00	95.00	RRPLBWL - 75 S
75	67.50	78.50	2.5	2.5	75.00	15.00	75.00	90.50	99.00	RRPLBWL - 75
90 S	75.00	85.00	3.15	3.15	90.00	20.00	55.00	100.00	110.00	RRPLBWL - 90 S
90 L	78.50	89.00	3.15	3.15	90.00	20.00	55.00	112.00	120.00	RRPLBWL - 90 L

## CW INDUSTRIAL CABLE GLANDS

Raychem RPG CW type brass indoor and outdoor cable gland is used with all types of Steel Wire Armour (SWA) cable, providing environmental seal on the cable outer sheath. The cable gland also provides mechanical cable retention and electrical continuity via armour wire termination

The Raychem RPG CW range of industrial cable glands is designed and tested to BS 6121:Part 1:1989, meets or surpasses the requirements of EN 50262:1999

TECHNICAL DATA	
Type	CW
Design Specification	BS6121:Part 1: 1989
Gland Sizes	16mm (5/8") - 90 mm (3 1/2")
Ingress Protection	IP66
Gland Material	Brass
Operating Temperature	-60°C to 150°C
Armour Clamping	Three Part Armour Lock (Lock Nut)
Sealing Material	Thermoplastic Elastomer
Sealing Method	Compression Sealing
Sealing Area	Cable Outer Sheath
Finish	Natural Brass or Nickel Plated
Cable Types	Steel Wire Armour (SWA)
Application	Indoor & Outdoor
Accessories	Lock Nut, Earth Tag & Shrouds



Size	Cable Dimensions				Gland Dimensions					Product Code
	Under Armour Dia. A Max. mm	Overall Dia. B Max. mm	Armour Wire Dia		ISO Entry Thread		Approx length from shoulder F mm	Hexagon Size		
			min.	max.	D mm	E mm		Across flat G mm	Across corners H mm	
16 S	8.00	12.00	0.9	1.25	16.00	10.00	40.00	20.00	23.00	RRPLCW - 16 S
16	8.60	13.50	0.9	1.25	16.00	10.00	40.00	20.00	23.00	RRPLCW - 16
20 S	12.50	17.00	0.9	1.25	20.00	10.00	47.00	22.00	29.00	RRPLCW - 20 S
20	14.40	20.50	0.9	1.25	20.00	10.00	47.00	26.00	29.00	RRPLCW - 20
25 S	17.80	23.80	1.25	1.60	25.00	10.00	50.00	31.00	34.00	RRPLCW - 25 S
25	20.40	27.00	1.25	1.60	25.00	10.00	50.00	34.00	38.50	RRPLCW - 25
32	26.50	33.00	1.60	2.0	32.00	10.00	55.00	41.50	46.50	RRPLCW - 32
40 S	31.00	37.00	1.60	2.0	40.00	10.00	60.00	45.00	50.00	RRPLCW - 40 S
40	32.50	40.80	1.60	2.0	40.00	15.00	60.00	49.00	54.00	RRPLCW - 40
50 S	37.80	45.00	2.0	2.5	50.00	15.00	65.00	51.00	64.00	RRPLCW - 50 S
50	44.00	51.50	2.0	2.5	50.00	15.00	65.00	62.30	69.50	RRPLCW - 50
63 S	50.50	60.50	2.5	2.5	63.00	15.00	70.00	70.00	78.00	RRPLCW - 63 S
63	56.50	65.50	2.5	2.5	63.00	15.00	70.00	76.30	85.00	RRPLCW - 63
75 S	62.50	72.00	2.5	2.5	75.00	15.00	75.00	85.00	95.00	RRPLCW - 75 S
75	67.50	78.50	2.5	2.5	75.00	15.00	75.00	91.00	112.00	RRPLCW - 75
90 S	76.00	85.00	3.15	3.15	90.00	20.00	90.00	100.00	110.00	RRPLCW - 90 S
90 L	78.00	90.00	3.15	3.15	90.00	20.00	90.00	103.00	115.00	RRPLCW - 90 L

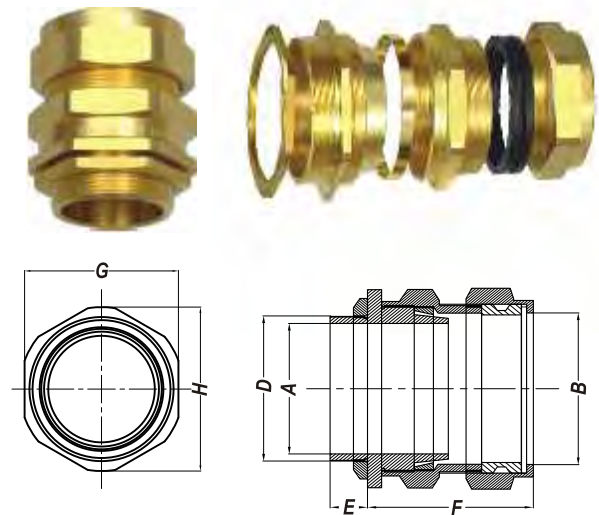


## CX INDUSTRIAL CABLE GLANDS

Raychem RPG CX type brass indoor and outdoor cable gland is used with all types of Wire Braid Armour, Strip Armour, Pliable Wire Armour & Steel Tape Armour (STA) cable, providing environmental seal on the cable outer sheath. The cable gland also provides mechanical cable retention and electrical continuity via armour wire termination

The Raychem RPG CX range of industrial cable glands is designed and tested to **BS 6121:Part 1:1989**, meets or surpasses the requirements of EN 50262 :1999

TECHNICAL DATA	
Type	CX
Design Specification	BS6121:Part 1: 1989
Gland Sizes	16mm (5/8") - 90 mm (3 1/2")
Ingress Protection	IP66
Gland Material	Brass
Operating Temperature	-60°C to 150°C
Armour Clamping	Three Part Armour Lock (Lock Nut)
Sealing Material	Thermoplastic Elastomer
Sealing Method	Compression Sealing
Sealing Area	Cable Outer Sheath
Finish	Natural Brass or Nickel Plated
Cable Types	Steel Tape Armour
Application	Indoor & Outdoor
Accessories	Lock Nut, Earth Tag & Shrouds



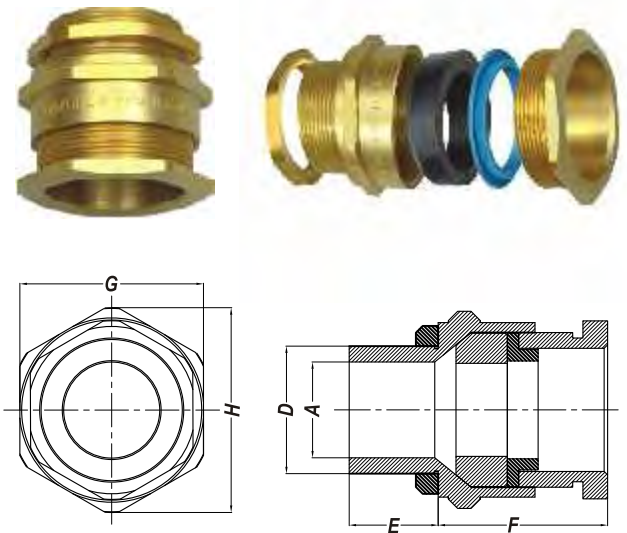
Size	Cable Dimensions				Gland Dimensions					Product Code
	Under Armour Dia. A Max.	Overall Dia. B Max.	Armour Steel Tape Thickness		ISO Entry Thread		Approx length from shoulder	Hexagon Size		
			min.	max.	Dia.	Length		Across flat	Across corners	
mm	mm	mm	mm	D mm	E mm	F mm	G mm	H mm		
16 S	8.00	12.00	0.15	0.35	16.00	10.00	40.00	20.00	23.00	RRPLCX - 16 S
16	8.60	13.50	0.15	0.35	16.00	10.00	40.00	20.00	23.00	RRPLCX - 16
20 S	12.50	17.00	0.15	0.35	20.00	10.00	47.00	22.00	29.00	RRPLCX - 20 S
20	14.40	20.50	0.15	0.5	20.00	10.00	47.00	26.00	29.00	RRPLCX - 20
25 S	17.80	23.80	0.15	0.5	25.00	10.00	50.00	31.00	34.00	RRPLCX - 25 S
25	20.40	27.00	0.15	0.5	25.00	10.00	50.00	34.00	38.50	RRPLCX - 25
32	26.50	33.00	0.15	0.55	32.00	10.00	55.00	41.50	46.50	RRPLCX - 32
40 S	31.00	37.00	0.2	0.6	40.00	10.00	60.00	45.00	50.00	RRPLCX - 40 S
40	32.50	40.80	0.2	0.6	40.00	15.00	60.00	49.00	54.00	RRPLCX - 40
50 S	37.80	45.00	0.5	0.8	50.00	15.00	65.00	51.00	64.00	RRPLCX - 50 S
50	44.00	51.50	0.5	0.8	50.00	15.00	65.00	62.30	69.50	RRPLCX - 50
63 S	50.50	60.50	0.5	0.8	63.00	15.00	70.00	70.00	78.00	RRPLCX - 63 S
63	56.50	65.50	0.5	0.8	63.00	15.00	70.00	76.30	85.00	RRPLCX - 63
75 S	62.50	72.00	0.5	1.0	75.00	15.00	75.00	85.00	95.00	RRPLCX - 75 S
75	67.50	78.50	0.5	1.0	75.00	15.00	75.00	91.00	112.00	RRPLCX - 75
90 S	76.00	85.00	0.5	1.0	90.00	20.00	90.00	100.00	110.00	RRPLCX - 90 S
90 L	78.00	90.00	0.5	1.0	90.00	20.00	90.00	103.00	115.00	RRPLCX - 90 L

## A1/A2 INDUSTRIAL CABLE GLAND

Raychem RPG A1/A2 type brass indoor and outdoor cable gland is used with all types of Unarmoured cable, providing mechanical cable retention and an environmental seal on the cable outer sheath.

The Raychem RPG A1/A2 range of industrial cable glands is designed and tested to BS 6121:Part 1:1989, meets or surpasses the requirements of EN 50262:1999

TECHNICAL DATA	
Type	A1/A2
Design Specification	BS6121:Part 1: 1989
Gland Sizes	16mm (5/8") - 90 mm (3 1/2")
Ingress Protection	IP66
Gland Material	Brass
Operating Temperature	-60°C to 150°C
Sealing Material	Thermoplastic Elastomer
Sealing Method	Displacement Sealing
Sealing Area	Cable Outer Sheath
Finish	Natural Brass or Nickel Plated
Cable Types	Unarmoured
Application	Indoor & Outdoor
Accessories	Lock Nut, Earth Tag & Shrouds, Serrated Washer, Adaptor/Reducer

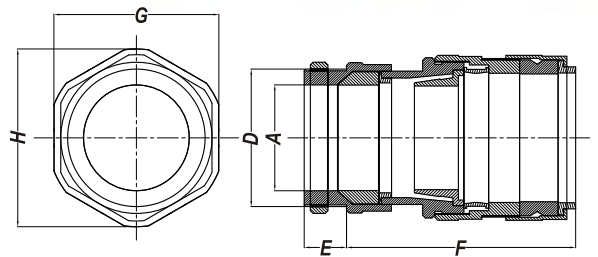


Size	Cable Dimensions		Gland Dimensions					Product Code
	Overall Diameter A		ISO Entry Thread		Approx length from shoulder F mm	Hexagon Size		
	Min mm	Max mm	Dia. D mm	Length E mm		Across flat G mm	Across corners H mm	
16 S	3.5	7.0	16.00	10.00	20.00	20.00	23.00	RRPLA2 - 16 S
16	4.50	8.50	16.00	10.00	20.00	20.00	23.00	RRPLA2 - 16
20 S	8.00	11.50	20.00	10.00	22.00	22.00	25.00	RRPLA2 - 20 S
20.0	11.00	14.00	20.00	10.00	22.00	22.00	25.00	RRPLA2 - 20
25 S	14.00	17.50	20.00	10.00	25.00	30.00	34.00	RRPLA2 - 25S
25.0	17.50	20.40	25.00	10.00	26.00	30.00	34.00	RRPLA2 - 25
32	20.00	26.00	32.00	10.00	30.00	36.00	40.00	RRPLA2 - 32
40 S	26.00	30.00	40.00	10.00	31.00	46.00	52.00	RRPLA2 - 40S
40	30.00	33.00	40.00	15.00	31.00	46.00	52.00	RRPLA2 - 40
50 S	33.00	38.00	50.00	15.00	33.00	55.00	61.00	RRPLA2 - 50S
50	38.00	44.00	50.00	15.00	33.00	56.00	62.00	RRPLA2 - 50
63 S	44.00	50.50	63.00	15.00	35.00	70.00	77.50	RRPLA2 - 63S
63	50.00	56.00	63.00	15.00	35.00	70.00	77.50	RRPLA2 - 63
75 S	56.50	62.00	75.00	15.00	35.00	80.00	89.00	RRPLA2 - 75S
75	62.00	68.00	75.00	15.00	40.00	80.00	89.00	RRPLA2 - 75
90 S	68.00	75.00	90.00	20.00	50.00	100.00	112.00	RRPLA2 - 90S
90 L	68.00	78.00	90.00	20.00	50.00	100.00	112.00	RRPLA2 - 90 L
100	78.00	88.00	100.0	22.00	50.00	112.00	125.00	RRPLA2 - 100

## E 1W INDUSTRIAL CABLE GLANDS

Raychem RPG E1W type brass indoor and outdoor cable gland is used with all types of Sheathed and Steel Wire Armour (SWA) cable providing an environmental seal on the cable inner sheath and cable outer sheath. The cable gland provides mechanical cable retention and electrical continuity via the armour termination and also earth bonding of the inner lead covering or lead sheath. Separate tightening actions for the inner displacement seal and the armour termination allows maximum control over the pressure applied to the **inner covering**.

TECHNICAL DATA	
Type	E1 W
Design Specification	BS6121:Part 1: 1989
Gland Sizes	16mm (5/8") - 90 mm (3 1/2")
Ingress Protection	IP66
Gland Material	Brass
Operating Temperature	-60°C to 150°C
Armour Clamping	Three Part Armour Lock
Sealing Material	Thermoplastic Elastomer
Sealing Method	Compression Sealing Outer Cable Sheath Displacement Sealing Inner Cable Sheath
Sealing Area	Cable Outer Sheath
Finish	Natural Brass or Nickel Plated
Cable Types	Steel Wire Armour (SWA) & Lead Sheath
Application	Indoor & Outdoor
Accessories	Lock Nut, Earth Tag & Shrouds, Serrated Washer, Adaptor/Reducer



Size	Cable Dimensions				Gland Dimensions					Product Code
	Under Armour Dia. A Max. mm	Overall Dia. B Max. mm	Armour Wire Dia		ISO Entry Thread		Approx length from shoulder F mm	Hexagon Size		
			min.	max.	D mm	E mm		Across flat G mm	Across corners H mm	
16	8.60	13.50	0.9	1.25	16.0	10.0	40.00	20.00	23.00	RRPLE1W - 16
20 S	12.50	15.00	0.9	1.25	20.0	10.0	45.00	24.00	28.00	RRPLE1W - 20 S
20	14.40	20.50	0.9	1.25	20.0	10.0	45.00	27.00	31.00	RRPLE1W - 20
25 S	17.80	23.80	1.25	1.60	25.0	10.0	50.00	31.00	34.00	RRPLE1W - 25S
25	20.40	27.00	1.25	1.60	25.0	10.0	50.00	34.00	38.50	RRPLE1W - 25
32	26.50	33.00	1.60	2.0	32.00	10.00	55.00	41.50	46.50	RRPLE1W - 32
40 S	31.00	37.00	1.60	2.0	40.00	10.00	60.00	45.00	50.00	RRPLE1W - 40S
40	32.50	40.80	1.60	2.0	40.00	15.00	60.00	49.00	54.00	RRPLE1W - 40
50 S	37.80	48.00	2.0	2.5	50.00	15.00	65.00	58.00	65.00	RRPLE1W - 50S
50	44.00	53.50	2.0	2.5	50.00	15.00	65.00	62.30	69.50	RRPLE1W - 50
63 S	50.50	60.50	2.5	2.5	63.00	15.00	70.00	70.00	78.00	RRPLE1W - 63S
63	56.50	65.50	2.5	2.5	63.00	15.00	70.00	76.30	85.00	RRPLE1W - 63
75 S	62.50	72.00	2.5	2.5	75.00	15.00	75.00	85.00	95.00	RRPLE1W - 75S
75	67.50	78.50	2.5	2.5	75.00	15.00	75.00	90.50	99.00	RRPLE1W - 75
90	80.00	94.00	2.5	2.5	90.00	20.00	90.00	112.00	125.00	RRPLE1W - 90

## NICKEL PLATED BRASS GLAND-IP 68 RATING-METRIC THREAD

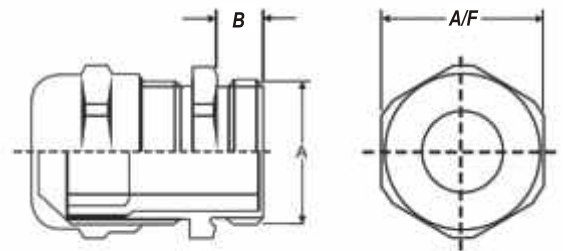
This metal gland is unique product different than traditional metal Glands and is perfect gland for unarmoured PVC, XLPE & other synthetic cables.

### Features:

1. IP68 Rating-the highest possible
2. Superior Strain Relief
3. Nickel plated brass for corrosion protection
4. Incorporates a unique "camera shutter" principle for clamping the cable
5. Fully insulated by plastic insert
6. Neoprene seal for fluid tightness

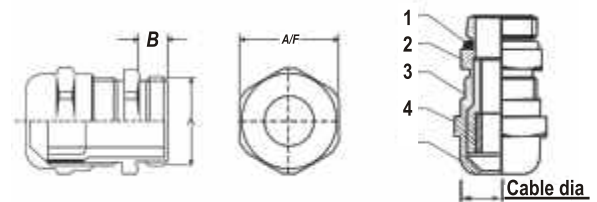


Mounting Thread		Min.	Max.	Width	Product Code
A Dia. (mm)	B Leng. (mm)	Cab. Ran. (mm)	Cab. Ran. (mm)	A/F (mm)	
12.0	5.0	3.0	6.0	14.0	RRPLMT - 12
16.0	5.0	5.0	10.0	17.0	RRPLMT - 16
20.0	6.0	8.0	13.0	22.0	RRPLMT - 20
25.0	7.0	11.0	17.0	27.0	RRPLMT - 25
32.0	8.0	15.0	21.0	34.0	RRPLMT - 32
40.0	8.0	19.0	28.0	43.0	RRPLMT - 40
50.0	9.0	26.0	35.0	55.0	RRPLMT - 50
63.0	10.0	32.0	42.0	65.0	RRPLMT - 63



## NICKEL PLATED BRASS GLAND - IP 68 RATING - PG THREAD

Mounting Thread		Min.	Max.	Width	Product Code
A Dia. (mm)	B Leng. (mm)	Cable Dia. (mm)	Cable Dia. (mm)	A/F (mm)	
7.0	6.0	2.0	2.0	14.0	RRPLPG - 7
9.0	6.0	4.0	8.0	17.0	RRPLPG - 9
11.0	6.0	5.0	10.0	20.0	RRPLPG - 11
13.5	7.0	6.0	12.0	22.0	RRPLPG - 13.5
16.0	7.0	9.0	14.0	24.0	RRPLPG - 16
21.0	8.0	12.0	17.0	30.0	RRPLPG - 21
29.0	8.0	18.0	25.0	26.0	RRPLPG - 29
36.0	16.0	22.0	32.0	50.0	RRPLPG - 36
42.0	16.0	30.0	38.0	58.0	RRPLPG - 42
48.0	16.0	32.0	42.0	34.0	RRPLPG - 48



## WIPING GLAND

1. Manufactured from heavy duty Brass
2. Made as per customer drawings and specifications

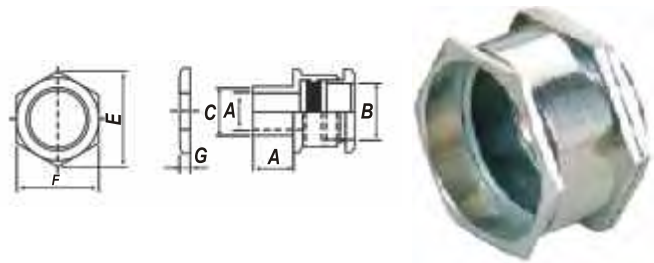


## PRODUCT FAMILY



## SINGLE COMPRESSION TYPE CABLE GLAND - UNARMoured CABLE

Raychem RPG single compression type economic range glands are used with unarmoured cable, secures & provides electrical continuity between unarmoured cable and gland entry component. Also provides a seal on the outer sheath of the cable, thus ensuring no damage to cable sheathing. Used both indoor & outdoor in all climatic conditions as it is weatherproof & waterproof.



Max. O.D.	Cable Dimn. Overall Dia.		Nipple Entry Thread		Cable Gland Dimensions							Product Code
	Over	Under	Inch.	mm.	A	B	C	D	E	F	G	
14.0	12.0	10.0	3/8"	10	11.5	12.5	15.5	7.5	20.5	18.0	2.5	RRPLSC - 10
16.0	15.0	10.0	1/2"	12	12.0	15.0	15.5	8.5	25.0	22.0	3.0	RRPLSC - 12
16.0	16.0	10.0	5/8"	16	14.5	16.5	18.5	8.0	24.0	21.0	2.5	RRPLSC - 16
18.0	16.5	14.0	3/4"	19	14.5	17.5	19.0	8.5	26.0	23.0	2.5	RRPLSC - 19
20.0	17.5	16.5	7/8"	22	14.5	20.0	18.5	8.5	29.0	25.0	3.0	RRPLSC - 22
23.0	20.5	18.5	1"	25	20.5	23.0	25.0	9.0	33.0	29.0	3.0	RRPLSC - 25
30.0	27.5	22.5	1-1/8"	28	24.0	28.0	28.5	10.5	40.0	35.0	3.5	RRPLSC - 28
30.0	27.5	26.5	1-1/4"	32	27.0	32.0	31.5	11.0	46.0	40.0	3.5	RRPLSC - 32
33.0	33.0	29.6	1-3/8"	35	29.5	35.5	34.5	11.0	50.0	44.0	4.0	RRPLSC - 35
38.0	37.0	33.5	1-1/2"	38	33.0	39.5	38.0	11.5	54.0	47.0	4.0	RRPLSC - 38
45.0	40.0	37.5	1-3/4"	45	40.0	44.5	44.0	11.5	62.0	54.0	4.5	RRPLSC - 45
49.0	43.0	43.5	2"	50	45.0	51.5	50.0	13.0	69.0	60.0	5.0	RRPLSC - 50
55.0	52.0	49.0	2-1/4"	57	51.5	58.0	56.5	13.0	78.0	68.0	5.0	RRPLSC - 57
61.0	56.0	64.5	2-1/2"	63	57.5	62.5	63.0	14.0	82.0	72.0	5.0	RRPLSC - 63
67.0	67.0	61.5	2-3/4"	70	63.5	69.0	69.0	15.0	90.0	80.0	5.0	RRPLSC - 70
73.0	73.0	66.5	3"	75	68.0	75.0	75.0	16.0	99.0	87.0	5.5	RRPLSC - 75
80.0	74.0	72.5	3-1/4"	82	75.0	81.5	82.0	16.0	105.0	92.0	6.0	RRPLSC - 82
83.0	83.0	80.5	3-1/2"	88	81.5	86.5	88.0	16.0	115.0	102.0	6.0	RRPLSC - 88
95.0	95.0	84.0	4"	100	92.0	101.0	100.0	17.0	126.0	110.0	6.5	RRPLSC -100
105.0	108.0	100.0	4-1/2"	112	107.0	109.0	105.0	20.0	148.0	129.5	7.5	RRPLSC -112

## MARINE-USE WATERTIGHT CABLE GLANDS

Material : Brass, Finish : Nickel Plated

No. of Parts: Body, Clamping Gland, Lock Nut, Two Brass Washers, Rubber Thread Seal, Rubber Inner Compression Ring.

Pipe Thread A	Gland ID in mm	Rubber ID C	Locknut OD in mm D	Gland OD in mm L	Total Length	Product Code
PF 3/8"	10	8	28	22	38	RRPLMG - 10
PF 1/2"	15	10	31.5	28	42	RRPLMG - 15
PF 3/4"	20	13	37	33.5	46	RRPLMG - 20
PF 1"	25	15	45	42	52	RRPLMG - 25
PF 1 1/4"	30	24	46	49.5	57	RRPLMG - 30
PF 1 1/2"	40	30	63	55	65	RRPLMG - 35
PF 1 1/2"	40	34	63	55	65	RRPLMG - 40
PF 2"	45	38	77	69	73	RRPLMG - 45
PF 2"	50	44	77	69	73	RRPLMG - 50
PF 2 1/2"	55	48	96	85	83	RRPLMG - 55
PF 2 1/2"	60	54	96	85	83	RRPLMG - 60
PF 3"	65	60	112	100	95	RRPLMG - 65
PF 3"	70	64	112	100	95	RRPLMG - 70



## GLAND SELECTION CHART

Cable Size Conductor		Numbers of Cores												
Nom. Area (mm <sup>2</sup> )	Neutral	1	2	3	3 1/2	4	5	7	10	12	19	27	37	48
1.5	-	-	20S	20S	-	20S	20S	20S	20	25	25	32	32	32
2.5	-	-	20S	20S	-	20S	20S	20	25	25	32	32	40	40
46	-	-	20S	20S	-	20	20	25	25	25	32	40	40	50S
10	-	-	20	20	-	20	-	-	-	-	-	-	-	-
16	-	-	20	25	-	25	-	-	-	-	-	-	-	-
25	16	-	25	25	32	25	-	-	-	-	-	-	-	-
35	16	-	25	32	32	32	-	-	-	-	-	-	-	-
50	25	25	32	32	32	32	-	-	-	-	-	-	-	-
70	35	25	25	32	40	32	-	-	-	-	-	-	-	-
95	50	25	32	32	50S	40	-	-	-	-	-	-	-	-
120	70	32	32	40	50	50S	-	-	-	-	-	-	-	-
150	70	32	40	40	50	50	-	-	-	-	-	-	-	-
185	95	32	40	50S	63S	50	-	-	-	-	-	-	-	-
240	120	40	50S	50	63	63S	-	-	-	-	-	-	-	-
300	150	40	50	63S	75S	63	-	-	-	-	-	-	-	-
300	185	40	63S	63	75S	75S	-	-	-	-	-	-	-	-
400	185	50S	63S	63	75	75	-	-	-	-	-	-	-	-
500	-	50	63S	75S	-	75	-	-	-	-	-	-	-	-
630	-	50	-	-	-	-	-	-	-	-	-	-	-	-
800	-	63S	-	-	-	-	-	-	-	-	-	-	-	-
1000	-	63	-	-	-	-	-	-	-	-	-	-	-	-

## INGRESS PROTECTION MATRIX

First Digit	Protection against Solid Foreign Objects and Access to Hazardous Parts			Second Digit	Protection against Liquids	
	Illustration	Method	Explanation		Illustration	Method
0	-	Non-protected	Non-protected	0	-	Non-protected
1		Protected against solid foreign objects of 50mm diameter and greater	Protected against access to hazardous parts with the back of a hand	1		Protected against drops of water falling vertically
2		Protected against solid foreign objects of 12.5mm diameter and greater	Protected against access to hazardous parts with a finger	2		Protected against drops of water falling at up to 15° from the vertical
3		Protected against solid foreign objects of 2.5mm diameter and greater	Protected against access to hazardous parts with a tool	3		Protected against spraying water at up to 60° from the vertical
4		Protected against solid foreign objects of 1.0mm diameter and greater	Protected against access to hazardous parts with a wire	4		Protected against splashing water from all directions
5		Dust-protected	Protected against access to hazardous parts with a wire	5		Protected against jet of water from all directions
6		Dust-tight	Protected against access to hazardous parts with a wire	6		Protected against jet of water of similar force to heavy seas
				7		Protected against the effects of immersion
				8		Protected against prolonged effects of immersion under pressure to a specified depth

\* Please refer to appropriate catalogue pages for specific Ingress Protection ratings according to their design and construction.

## ACCESSORIES

### Adaptors & Reducers



**Material :** Brass, Aluminium

**Features:**

- Designed to provide flexibility when there is conflict between the type of size of cable gland thread and cable entry hole in the equipment
- Available in standard sizes from M16 to M100
- Thread conversions available in METRIC, NPT, BSP, PG, IMPERIAL, NPSM

### Earthing Tag



**Material :** Brass, Aluminium & Copper

**Features:**

- Means of connection or an earth bond around the cable gland
- Available in various shapes and in standard sizes
- Ensures earth continuity between the electrical equipment & the gland
- Can be coated or plated as per Customer Specification

Metric	Product Code
M16	RRPL ET - 16
M20	RRPL ET - 20
M25	RRPL ET - 25
M32	RRPL ET - 32
M50	RRPL ET - 50

Size	Product Code
M63	RRPL ET - 63
M75	RRPL ET - 75
M80	RRPL ET - 80
M90	RRPL ET - 90
M100	RRPL ET - 100

### Lock Nut



**Material :** Brass, Aluminium & Galvanized Steel

**Features:**

- Used in fastening glands to the gland plate
- Available in Metric, Imperial, NPT, BSPT, BSP & PG

Sizes : 16mm to 90mm

Size mm or inch.	Product Code
16mm or 5/8"	RRPL LN - 16
20mm or 3/4"	RRPL LN - 20
25mm or 1"	RRPL LN - 25
32mm or 1.1/4"	RRPL LN - 32
40mm or 1.1/2"	RRPL LN - 40

Size mm or inch.	Product Code
50mm or 2"	RRPL LN - 50
63mm or 2.1/2"	RRPL LN - 63
75mm or 3"	RRPL LN - 75
90mm or 3.1/2"	RRPL LN - 90

### Shrouds : PVC & LSF



**Material :** High Grade Poly Vinyl Chloride and Low Smoke and Low Flamable compound

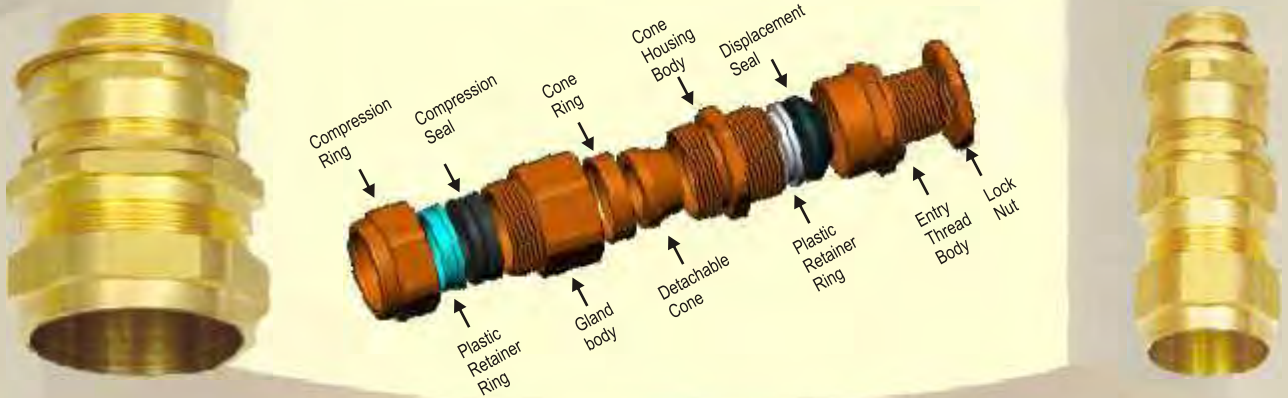
**Features:**

- Provides additional protection & enhances IP rating of the Gland Terminals
- Effective solution to weather and corrosion protection of a Cable Gland
- Available in same gland size compatible to each size of the Cable Gland
- The arrow end of the sleeve can be readily cut with a knife, enabling it to be slipped over a wide range of cable diameters and assists ease of installations

**Launching soon ATEX approved**



**losion proof Cable Glands**



**EXPLOSION PROOF CABLE GLANDS**

**OTHER PRODUCTS OFFERED BY R-Loc®**



**SS Clamping Products**



**Earthing & Grounding Accessories**



**Exoweld - Exothermic Welding**



**Copper Mesh & Braids**

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