

CABLE MANAGEMENT

QUALITY THAT LASTS A LIFETIME

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Commitment of Quality

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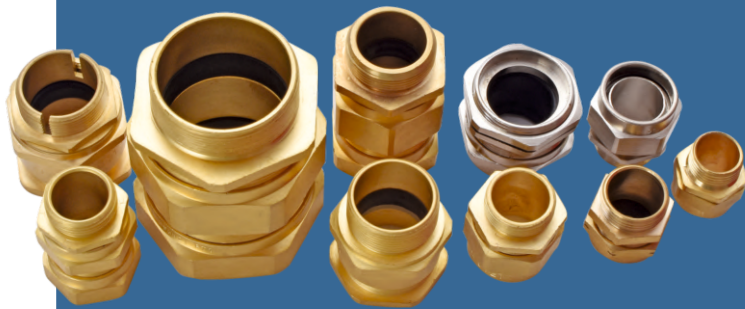
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CABLE GLANDS & IT'S CONSTRUCTION TYPES

INTRODUCTION OF CABLE GLANDS

Cable Glands are mechanical devices which are used for the retention of cables. The glands can be constructed from non ferrous metallic and non-metallic material. they can be used at a termination junction for all type of cables which may be electrical, telecommunication, control or data cables. They are used as a sealing, holding and terminating device which ensures that the cables would retain all characteristics at the enclosure. These characteristics can be summarized as under:

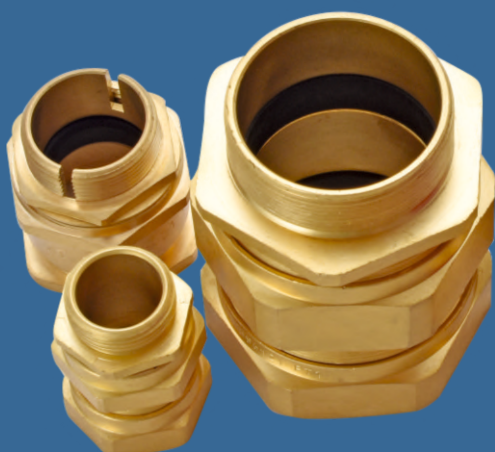
- › Providing continuity of electricity for all armoured cables as the metallic property would facilitate earthing.
- › Provide a holding force on the cable to ensure the cables are retained against accidental pull outs.
- › Provide environmental protection by ensuring a sealing on the outer cable sheath, thus shutting out dust and moisture effects on the electrical or instrumental enclosure.
- › Providing a suitable level of adequate protection to the instrument or equipment in hazardous areas.
- › Provide additional security at the cable entry point and maintain an ingress protection rating on the enclosure with suitable additional accessories.

OVERVIEW OF CABLE GLAND CONSTRUCTION

There are numerous types of Glands available in the market. However, there are some specific standards selected by the Industry while deciding the type of gland to be used against the specific type of cable. The sealing ring employed within the Cable Gland design may be a deciding factor for selection of the Gland to be used.

Throughout the world, there are different types of cables manufactured. The standards of these cable also vary from Country to Country. Eventhough the electrical parameters and ratings may be the same, still, the product may differ from company to company. Thus, a very close attention should be paid while selecting the Cable Gland to be used against the different cable as the design of the Gland would matter for the sealing and retention required against the said cable.

The sealing on the cable inner side and the armour termination are ensured in one simultaneous action. This involves the tightening of the armour cone with the gland till a defined mechanical stop is ensured. This would lead to the compression seal being tightened and checks should be maintained that overtightening of the seal is avoided.



CABLE GLANDS DEFINITIONS

Below are tables composed from data included in BS 6121 : Part1 : 1989

TABLE A:

CABLE GLAND TYPE DESIGNATIONS FOR UNARMoured CABLES.

TYPE	A1	A2
DEFINITION	For unarmoured cable with an elastomeric or plastic outer sheath, with sealing function between the cable sheath and the sealing ring of the cable gland.	As type A1, but with seal protection degree IP66

TABLE B:

CABLE GLAND TYPE DESIGNATIONS FOR ARMoured CABLES.

CODE	B	C	D	E
DEFINITION	NO SEAL	SINGLE OUTER SEAL	SINGLE INNER SEAL	DOUBLE (INNER & OUTER) SEAL SUFFIX '1' = NORMAL SUFFIX '2' = LEAD SHEATHED

TABLE C:

CABLE TYPE DESIGNATIONS.

CODE	B	C	D	E
DEFINITION	NO SEAL	SINGLE OUTER SEAL	SINGLE INNER SEAL	DOUBLE (INNER & OUTER) SEAL SUFFIX '1' = NORMAL SUFFIX '2' = LEAD SHEATHED

TABLE D:


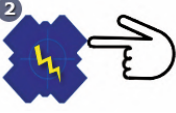
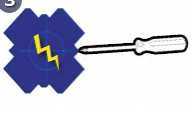
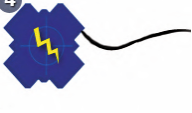
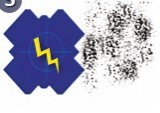
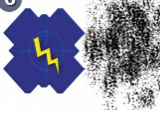
TYPICAL CABLE GLAND TYPE DESIGNATIONS DERIVED FROM TABLES A TO C.









TYPE	A2	BW	CW	CX
DEFINITION	CABLE GLAND FOR UNARMoured CABLE WITH OUTER SEAL	CABLE GLAND FOR SINGLE WIRE ARMOUR CABLE WITHOUT SEAL	SINGLE SEAL CABLE FOR SINGLE WIRE ARMOUR CABLE	SINGLE SEAL CABLE GLAND FOR BRAIDED CABLE
TYPE	E1W	E1X	G	TRS
DEFINITION	DOUBLE SEAL CABLE GLAND FOR SINGLE WIRE ARMOUR CABLE	DOUBLE SEAL CABLE GLAND FOR BRAIDED CABLE	CABLE GLAND FOR SINGLE WIRE ARMOUR CABLE WITHOUT SEAL	CABLE GLAND FOR UNARMoured CABLE WITH OUTER SEAL

INGRESS PROTECTION RATINGS

Ingress Protection is a most significant part for any electrical equipment. For any industry, the electrical installations require high level of integrity and the protection systems are dependent upon the equipment used to maintain the continuous electrical supply.

The Cable Glands are required to go through several standard tests to verify the Ingress protection rating. This is in line for similar for all Electrical Equipments. We at Rupam have got all our Glands tested by an independent agency to validate our Ingress Protection i.e. IP Ratings. The tests are done as per the standards EN 60529 (IEC 60529). Our Cable glands have been tested to IP 66. Please note that the Ingress Protection tests are different from Deluge Protection tests.

IP	SOLID PROTECTION
	Protected against a solid Object greater than 50mm, Such as a hand.
	Protected against a solid Object greater than 12.5 mm, Such as a hanger.
	Protected against a solid Object greater than 2.5 mm, Such as a screwdriver.
	Protected against a solid Object greater than 1.0 mm, Such as a wire.
	Dust protected limited ingress of dust permitted.
	Dust tight, zero ingress of dust permitted.

IP	SOLID PROTECTION
	Protected against vertically falling drops of water. Limited ingress permitted.
	Protected against a solid vertically falling drops of water with enclosure tilted 15° from vertical. Limited ingress permitted.
	Protected against sprays to 60° from the vertical. Limited ingress permitted.
	Protected against water splashed from all direction. Limited ingress permitted.
	Protected against jets of water. Limited ingress permitted.
	Protected against strong jets of water. Limited ingress permitted.
	Protected against the effects of immersion between 15 cm and 1m.
	Protected against long period of immersion under pressure.



CABLE GLAND SELECTION CHART

For installation of Cable glands, a skilled competent person is required. The Glands must be fitted properly and damage to the insulation should be avoided during installation.

During installation, proper care should be taken to ensure that the electrical power is shut off. Till then, the Glands should not be open. Once the Glands are properly installed in the electrical equipment, power can be turned on.

It is important to note that the Glands are a whole product in itself. The installer should not try and use spares or components of any other product with the rest of the Cable gland. Any modification to the Gland or the design can lead to hazardous circumstances.

There are no intermediate spares supplied with the Cable gland.

The compulsory accessories required for installation of Cable gland like Earth Tags, Shrouds etc are supplied in the KIT of the Cable gland. During installation, care should be taken to ensure these spares are properly fitted to ensure continuity of electricity and avoidance of exposure to external forces.

Gland Selection Chart for PVC & XLPE Armoured Cables To Bs6346 AND BS5467

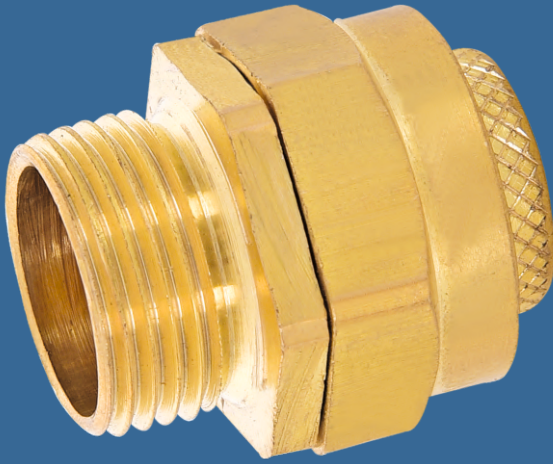
CABLE SIZE CONDUCTOR													
NOM. AREA MM2	1	2	3	3.5	4	5	7	10	12	19	27	37	48
1.5	....	20S	20S	....	20S	20S	20	20	25	25	32	32	40
2.5	....	20S	20S	....	20S	20	25	25	25	32	32	40	40
4.0	....	20S	20S	....	20	25	25	25	25	32	40	40	50S
6.0	....	20	20	....	25								
10.0	....	25	25	....	25								
16.0	....	25	25	....	32								
25.0	....	32	32	32	40								
35.0	....	32	32	32	50S								
50.0	20	32	32	32	50S								
70.0	25	32	40	40									
95.0	25	40	40	50S									
120.0	25	40	50S	50									
150.0	32	50S	50	50									
185.0	32	50S	50	63S									
240.0	40	50	63S	63									
300.0	40	63S	63	75									
400.0	50	63	75S	90									

Gland Selection Chart for PVC / PVC Conductor Unarmoured Cable TO 660- 1100 Volt

AREA MM ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
1 Core									25	25	25	32	32	32	40	40	50S	50	50	63S	63
2 Cores					25	25	25	25	32	32	40	40	50S	50	50	63S	63				
3 Cores			20S	20	25	25	32	32	32	40	50S	50S	50	63S	63S	63	75S				
3 1/2 Cores			20S	20			32	32	40	40	50S	50	63S	63S	63	75	75				
4 Cores			20	20	25	25	32	32	40	50S	50S	50	63	63	75S	75					

Selection Chart are intended as a guide. it is strongly recommended that the actual cable dimension are checked against the gland dimension to ensure a correct selection. This is particularly important where seals are requiewd.

“RUPAM” and their stockist cannot accept receipt responsibility where an incorrect selection is made either of type or size.



BW KNURLING CABLE GLAND

RUPAM BW Type brass indoor cable gland for use with all types of Single Wire Armour (SWA) cable providing mechanical cable retention and electrical continuity through armour wire termination. This cable glands is designed and tested as per BS6121:2005 Part 1. It meets the requirement of EN 50262 : 1999 and IEC 62444.

TECHNICAL INFORMATION

- TYPE : BW KNURLING
- DESIGN SPECIFICATION : BS 6121: PART 1: 1989
- CABLE TYPE : SINGLE WIRE ARMOUR (SWA)
- CABLE GLAND MATERIAL : BRASS
- INGRESS PROTECTION RATING : IP 54

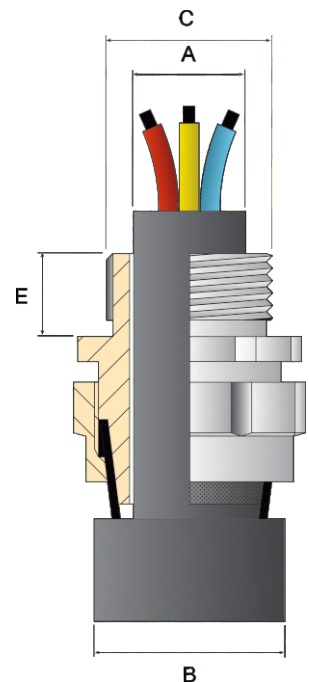
CABLE GLAND KIT CONTAINS:



Note: Kit Contains two sets of above items up to 32mm sizes & one set from 40mm and above sizes

Gland Size	Entry Thread		Cable Acceptance Detail			Across Flat	Across Corner
	Dia. C	Length Minimum E	Dia. "A" Max	Dia. "B" Max	Armour Diameter		
20 S	20	10	11.6	16	0.90/1.25	21	23.4
20 L	20	10	14.5	20	0.90/1.25	24	27
25 L	25	10	20.5	26.3	1.25/1.60	32	35.5
32 L	32	10	27	33.5	1.60/2.00	40.5	45
40 L	40	15	34	41	1.60/2.00	49	55.5
50 L	50	15	44	52.5	2.00/2.50	61	68
63 L	63	15	56	66	2.5	76	86
75 L	75	15	68	78	2.5	88	98
90 L	90	20	79	90	2.50/3.15	104	117

All dimensions are in millimetre



BW CABLE GLAND



RUPAM BW 4 Part Type brass indoor cable gland is used with all types of Single Wire Armour (SWA) cable providing mechanical cable retention and electrical continuity through armour wire termination. The BW design offers the benefit of a longer body to protect the armour wires from impact. This cable glands is designed and tested to BS6121:2005 Part 1. It meets the requirement of EN 50262:1999 and IEC 62444.

TECHNICAL INFORMATION

TYPE	: BW 4 PART
DESIGN SPECIFICATION	: BS 6121: PART 1: 1989
CABLE GLAND MATERIAL	: BRASS
CABLE TYPE	: SINGLE WIRE ARMOUR (SWA)
INGRESS PROTECTION RATING	: IP 54

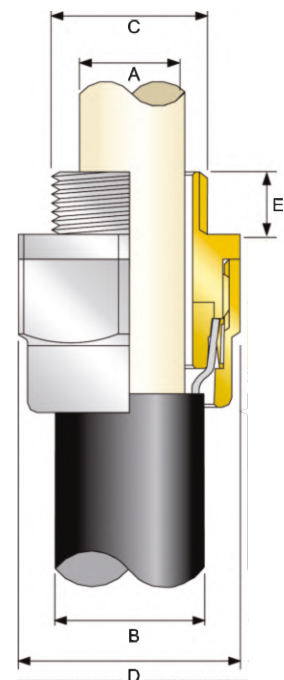
CABLE GLAND KIT CONTAINS:

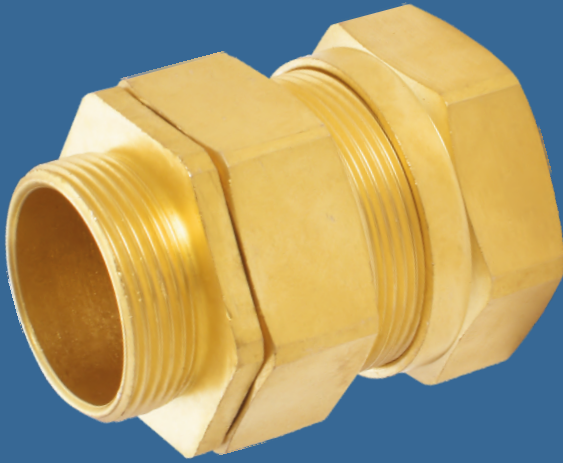


Note: Kit Contains two sets of above items up to 32mm sizes & one set from 40mm and above sizes

Gland Size	Entry Thread		Cable Acceptance Detail			Across Flat D	Across Corner
	Dia. C	Length Min. E	Dia. "A" Max	Dia. "B" Max	Armour Diameter		
20 S	20	9	11.6	16	0.9/1.25	21.5	24.5
20 L	20	9	14	20	0.9/1.25	24	27.3
25 S	25	9	19	24	1.25/1.60	30.5	34
25 L	25	9	20.5	26.5	1.25/1.60	32	35.5
32 S	32	9	23	29.5	1.60/2.00	34.5	39
32 L	32	10	27	33	1.60/2.00	39	44
40 S	40	10	30	37	1.60/2.00	44.5	49
40 L	40	10	33.5	41	1.60/2.00	47	53.5
50 S	50	11	40	47.5	2.00/2.50	56	62
50 L	50	11	44	52.6	2.00/2.50	60	67.5
63 S	63	14	50.5	60	2.5	69	78
63 L	63	14	56	66	2.5	74.5	84
75 S	75	15	62	72	2.5	82	93
75 L	75	15	68	78	2.5	87	99
90 L	90	20	79	90	2.50/3.15	105	117

All dimensions are in millimetre





CW CABLE GLAND

RUPAM CW Type brass indoor and outdoor cable gland is used with all types of Single Wire Armour (SWA) cable providing mechanical cable retention and electrical continuity through armour wire termination. Clamping ring allows the cable to be easily disconnected from the equipment, for maintenance etc. This feature also provides remote also known as off procedures when the termination is to be conducted in areas restricted access. This cable glands is designed and tested as per BS 6121:1989. It meets the requirement of EN 50262: 1999 and IEC 62444.

TECHNICAL INFORMATION

TYPE	: CW
DESIGN SPECIFICATION	: BS 6121: PART 1: 1989
CABLE GLAND MATERIAL	: BRASS
CABLE TYPE	: SINGLE WIRE ARMOUR (SWA)
INGRESS PROTECTION RATING	: IP 66

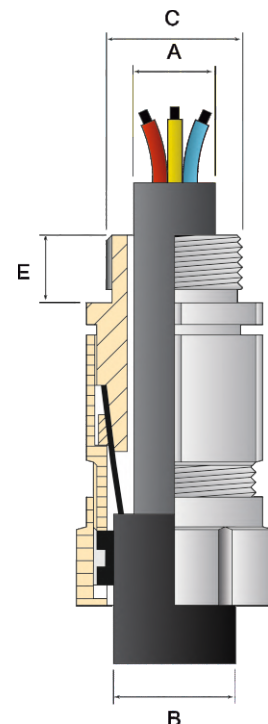
CABLE GLAND KIT CONTAINS:



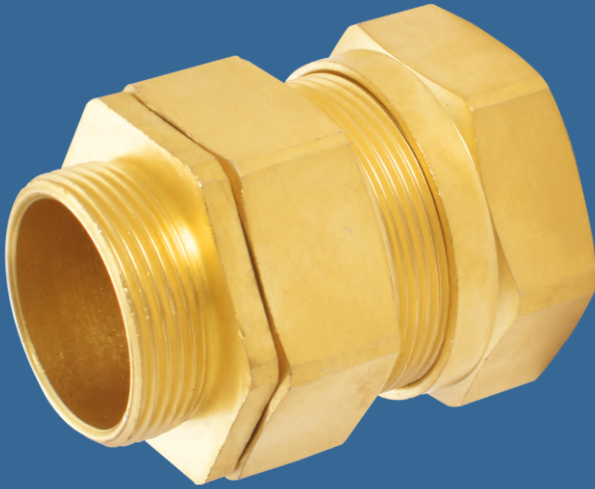
Note: Kit Contains two sets of above items up to 32mm sizes & one set from 40mm and above sizes

Gland Size	Entry Thread		Cable Acceptance Detail			Across Flat D	Across Corner
	Dia. C	Length Min. E	Dia. "A" Max	Dia. "B" Max	Armour Diameter		
20 S	20	10	11.6	16	0.9/1.25	22	25
20 L	20	10	14.5	20.5	0.9/1.25	26	29
25 S	25	10	19	24	1.25/1.60	31.5	35.5
25 L	25	10	20.5	27	1.25/1.60	34	38
32 S	32	10	24	30.5	1.60/2.00	38.5	43.5
32 L	32	10	27	33	1.60/2.00	41	46.5
40 S	40	15	30	37	1.60/2.00	46	51
40 L	40	15	33.5	41	1.60/2.00	48.5	55
50 S	50	15	40	47.5	2.00/2.50	57	64
50 L	50	15	44	52.6	2.00/2.50	61	68
63 S	63	15	50.5	60	2.5	70	79
63 L	63	15	56	66	2.5	78	86
75 S	75	15	62	72	2.5	84	95
75 L	75	15	68	78	2.5	92	102
90 L	90	20	79	90	2.50/3.15	105	118

All dimensions are in millimetre



CX CABLE GLAND



RUPAM 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. It also provides mechanical cable retention and electrical continuity through armour wire termination. An armour cone clamping ring arrangements allows the cable to be easily disconnected from the equipment, for maintenance etc. This feature also facilitates remote make off procedures when the termination is to be conducted in areas of restricted access. This cable glands is designed as per BS 6121:Part 1:1989 and IEC 62444.

TECHNICAL INFORMATION

- TYPE : CX
- DESIGN SPECIFICATION : BS 6121: PART 1: 1989
- CABLE GLAND MATERIAL : BRASS
- CABLE TYPE : WIRE BRAID ARMOUR, SCREENED FLEXIBLE WIRE BRAID (E.G.CY/SY), PILABLE WIRE ARMOUR (PWA) STEEL TAPE ARMOUR (STA)
- INGRESS PROTECTION RATING : IP 66

CABLE GLAND KIT CONTAINS:

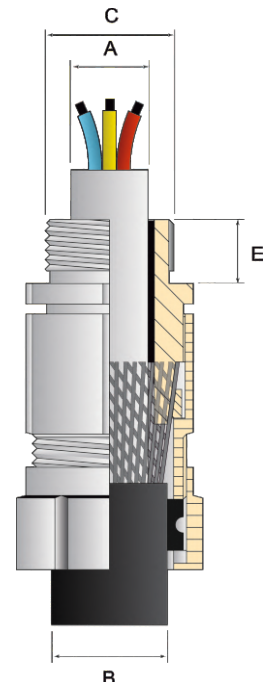


Gland Shroud Earth Tag Lock Nut

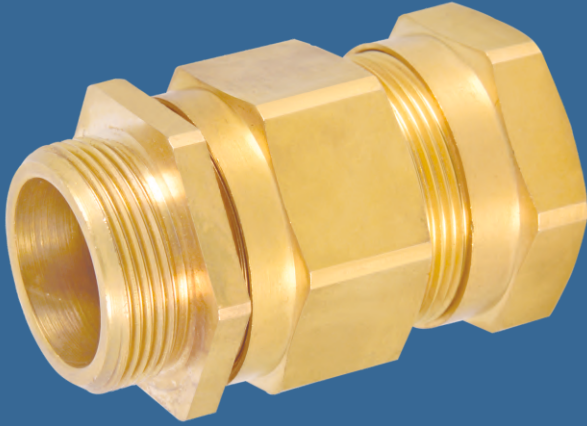
Note: Kit Contains two sets of above items up to 32mm sizes & one set from 40mm and above sizes

Gland Size	Entry Thread		Cable Acceptance Detail			Across Flat	Across Corner
	Dia. C	Length Minimum E	Dia. "A" Max	Dia. "B" Max	Armour Diameter		
20 S	20	10	11.60	16.00	0.40/0.80	22.00	25.00
20 L	20	10	14.50	20.50	0.60/1.00	25.40	28.50
25 S	25	10	19.00	24.00	0.60/1.10	31.50	35.50
25 L	25	10	20.50	27.00	0.60/1.10	33.00	37.00
32 S	32	10	24.00	30.50	0.60/1.20	38.50	43.50
32 L	32	10	27.00	33.00	0.60/1.20	41.00	46.50
40 S	40	15	30.00	37.00	0.60/1.20	46.00	51.00
40 L	40	15	33.50	41.00	0.60/1.20	48.50	55.00
50 S	50	15	40.00	47.00	0.60/1.50	57.00	64.00
50 L	50	15	44.00	52.60	0.80/1.50	61.00	68.00
63 S	63	15	50.50	60.00	0.80/1.50	70.00	79.00
63 L	63	15	56.00	66.00	0.80/1.50	78.00	86.00
75 S	75	15	62.00	72.00	0.80/1.50	84.00	95.00
75 L	75	15	68.00	78.00	0.80/1.50	92.00	102.00
90 L	90	20	79.00	90.00	0.80/1.50	105.00	118.00

All dimensions are in millimetre



EIW CABLE GLAND



RUPAM EIW Type brass indoor and outdoor cable gland is used with Single Wire Armour (SWA) cable providing a seal on the cable inner sheath and the cable outer sheath. A detachable armour cone and clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance etc. This feature also facilitates remote make off procedures when the termination is to be conducted in areas of restricted access. Separate tightening actions for the inner displacement seal and the armour termination affords maximum control cover the pressure applied do the cable inner bedding. This cable glands is designed and tested as per BS 6121:Part 1:1989. It meets the requirement of EN 50262: 1999 and IEC 62444.

TECHNICAL INFORMATION

- TYPE : EIW
- DESIGN SPECIFICATION : BS 6121: PART 1: 1989
- CABLE GLAND MATERIAL : BRASS
- CABLE TYPE : SINGLE WIRE ARMOUR (SWA)
- INGRESS PROTECTION RATING : IP 66

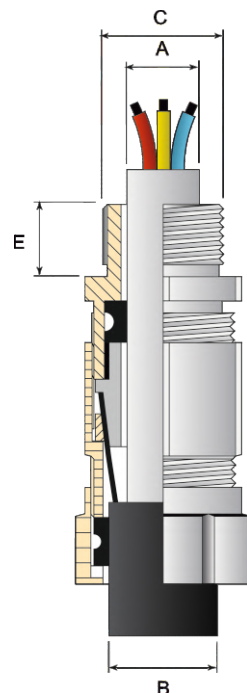
CABLE GLAND KIT CONTAINS:



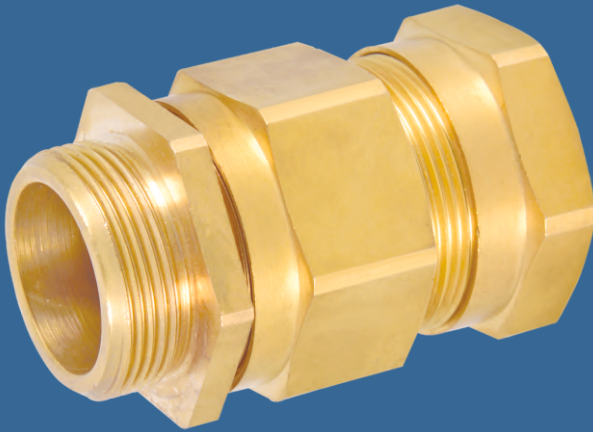
Note: Kit Contains two sets of above items up to 32mm sizes & one set from 40mm and above sizes

Gland Size	Entry Thread		Cable Acceptance Detail			Across Flat	Across Corner
	Dia. C	Length Min. E	Dia. "A" Max	Dia. "B" Max	Armour Diameter		
20 S	20	10	8.00 - 11.50	12.00 - 16.00	0.9/1.25	22	25
20 L	20	10	11.00 - 14.00	15.50 - 20.00	0.9/1.25	26	29
25 S	25	10	12.00 - 17.00	17.50 - 23.00	1.25/1.60	31.5	35.5
25 L	25	10	14.00 - 20.00	23.00 - 26.50	1.25/1.60	34	38
32 S	32	10	18.00 - 23.00	25.00 - 30.00	1.60/2.00	38.5	43.5
32 L	32	10	20.00 - 26.00	26.70 - 33.00	1.60/2.00	41	46
40 S	40	15	23.00 - 30.00	32.00 - 37.50	1.60/2.00	46	51
40 L	40	15	26.00 - 32.20	33.00 - 40.50	1.60/2.00	49.5	56
50 S	50	15	32.50 - 38.50	39.50 - 46.00	2.00/2.50	57	64
50 L	50	15	36.50 - 44.00	46.00 - 52.00	2.00/2.50	61	68
63 S	63	15	43.50 - 50.00	52.00 - 59.00	2.5	70	79
63 L	63	15	49.00 - 56.00	58.50 - 66.00	2.5	78	86
75 S	75	15	54.50 - 62.00	65.00 - 72.00	2.5	84	95
75 L	75	15	61.00 - 68.00	71.50 - 78.00	2.5	92	102

All dimensions are in millimetre



EIX CABLE GLAND



RUPAM EIX 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 a seal on the cable inner bedding and cable outer sheath. The cable gland provides mechanical cable retention and electrical continuity via armour termination. A detachable armour cone clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance etc. This feature also facilitates remote make off procedures when the termination is to be conducted in areas of restricted access. Separate tightening actions for the inner displacement seal and the armour termination afford maximum control over the pressure applied to the cable inner bedding. This cable glands is designed as per BS 6121:Part 1:1989 and IEC 62444.

TECHNICAL INFORMATION

- TYPE : EIX
- DESIGN SPECIFICATION : BS 6121: PART 1: 1989
- CABLE GLAND MATERIAL : BRASS
- CABLE TYPE : Wire Braid Armour, Screened Flexible Wire Braid (e.g. CY/SY), Pliable Wire Armour (PWA) Steel Tape Armour (STA)
- INGRESS PROTECTION RATING : IP 66

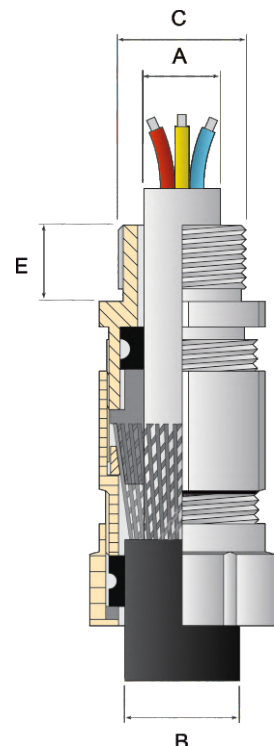
CABLE GLAND KIT CONTAINS:



Note: Kit Contains two sets of above items up to 32mm sizes & one set from 40mm and above sizes

Gland Size	Entry Thread		Cable Acceptance Detail			Across Flat	Across Corner
	Dia. C	Length Minimum E	Dia. "A" Max	Dia. "B" Max	Armour Diameter		
20 S	20	10	8.00 - 11.50	12.00 - 16.00	0.40/0.80	22	25
20 L	20	10	11.00 - 14.00	15.50 - 20.00	0.60/1.00	26	29
25 S	25	10	12.00 - 17.00	17.50 - 23.00	0.60/1.10	31.5	35.5
25 L	25	10	14.00 - 20.00	23.00 - 26.50	0.60/1.10	34	38
32 S	32	10	18.00 - 23.00	25.00 - 30.00	0.60/1.20	38.5	43.5
32 L	32	10	20.00 - 26.00	26.70 - 33.00	0.60/1.20	41	46.5
40 S	40	15	23.00 - 30.00	32.00 - 37.50	0.60/1.20	46	51
40 L	40	15	26.00 - 32.20	33.00 - 40.50	0.60/1.20	49.5	56
50 S	50	15	32.50 - 38.50	39.50 - 46.00	0.60/1.50	57	64
50 L	50	15	36.50 - 44.00	46.00 - 52.00	0.80/1.50	61	68
63 S	63	15	43.50 - 50.00	52.00 - 59.00	0.80/1.50	70	79
63 L	63	15	49.00 - 56.00	58.50 - 66.00	0.80/1.50	78	86
75 S	75	15	54.50 - 62.00	65.00 - 72.00	0.80/1.50	84	95
75 L	75	15	61.00 - 68.00	71.50 - 78.00	0.80/1.50	92	102

All dimensions are in millimetre





A2 CABLE GLAND

RUPAM A2 Type brass indoor cable gland is used with all type of unarmoured cable, providing mechanical cable retention. Sealing is provided on the cable outer sheath. The RUPAM A2 range of industrial cable glands is designed and tested as per BS 6121: Part 1:1989. Also meets the requirements of EN 50262 : 1999 and IEC 62444.

TECHNICAL INFORMATION

- TYPE : A2
- DESIGN SPECIFICATION : BS 6121: PART 1: 1989
- CABLE TYPE : UNARMOURED
- CABLE GLAND MATERIAL : BRASS
- INGRESS PROTECTION RATING : IP 66

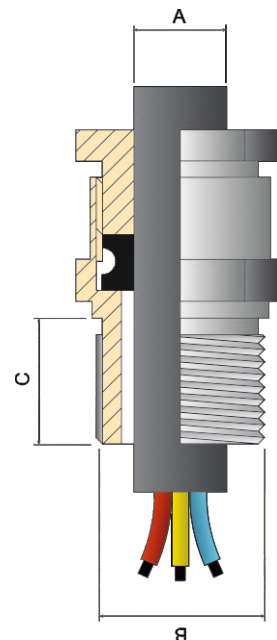
CABLE GLAND KIT CONTAINS:

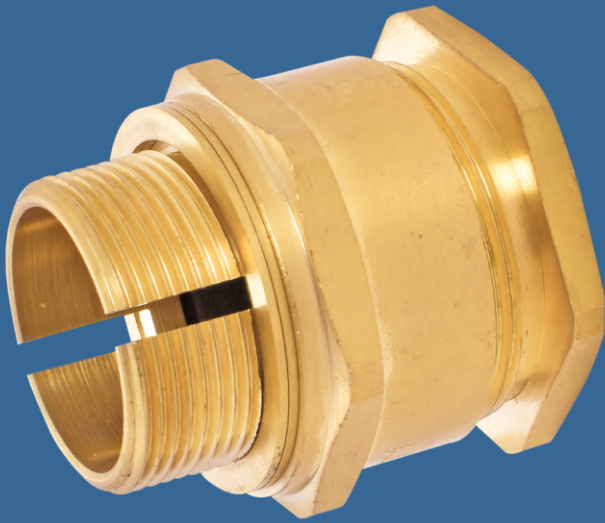


Note: Kit Contains two sets of above items up to 32mm sizes & one set from 40mm and above sizes

Gland Size	Entry Thread		Cable Acceptance Detail		
	Dia. B	Length Minimum C	Dia. "A" Max	Across flat	Across Corner
16 L	16	10	3.50 - 9.00	21	24
20 S	20	15	8.00 - 11.70	22.5	25
20 L	20	15	11.00 - 14.00	24	26.6
25 S	25	15	12.00 - 17.00	27	30.5
25 L	25	15	13.00 - 20.50	29.5	33
32 S	32	15	16.50 - 23.00	35	38.5
32 L	32	15	19.00 - 26.30	39	43
40 S	40	20	23.00 - 29.00	43	48
40 L	40	20	25.00 - 33.00	46	51
50 S	50	20	31.50 - 39.00	56	62
50 L	50	20	36.50 - 44.00	62	68
63 S	63	20	42.50 - 50.00	66	73
63 L	63	20	48.00 - 56.00	72	79
75 S	75	20	54.50 - 62.00	77	85
75 L	75	20	60.50 - 68.00	86	95
90 L	90	20	67.00 - 79.00	100	112

All dimensions are in millimetre





CXT CABLE GLAND

RUPAM CXT type brass indoor and outdoor cable gland is unarmoured cable gland. This gland provides sealing on the cable outer sheath. It also provides mechanical cable retention and electrical continuity through internal pig tail termination of the flexible wire braid.

The RUPAM CXT range of industrial cable glands is designed as per BS 6121:Part 1:1989 and IEC 62444.

TECHNICAL INFORMATION

- TYPE : CXT
- DESIGN SPECIFICATION : BS 6121: PART 1: 1989
- CABLE GLAND MATERIAL : BRASS
- CABLE TYPE : UNARMoured
- INGRESS PROTECTION RATING : IP 54

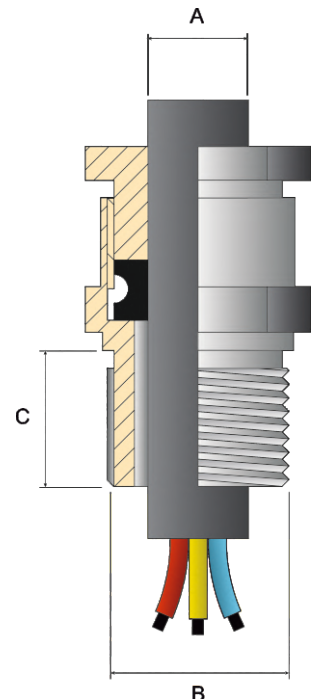
CABLE GLAND KIT CONTAINS:



Note: Kit Contains two sets of above items up to 32mm sizes & one set from 40mm and above sizes

Gland Size	Entry Thread		Cable Acceptance Detail			Across Corner
	Dia. C	Length Minimum E	Dia. "A" Max	Dia. "B" Max	Across Flat	
20 S	20	15	12.00	16	22	25
20 L	20	15	14.50	20	25.5	28.5
25 L	25	15	20.50	27	34	38
32 L	32	15	26.50	33	40	45
40 L	40	20	33.50	41	46	51
50 L	50	20	44.00	52.6	60	67

All dimensions are in millimetre





PG CABLE GLAND

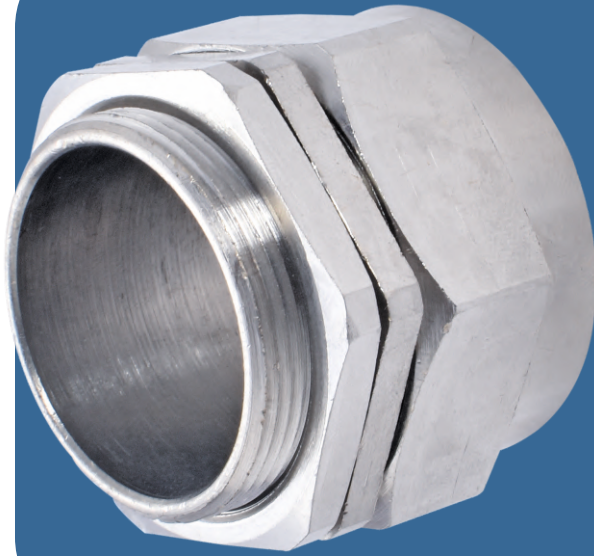
RUPAM PG Cable Gland ensures continuous contacting without gaps. The cap and the insert are simply pushed on to the lead. The exposed cable shield is folded around the insert, and the glands body is then pushed on. Screw-fitting of the cap ensures that cable shield is pressed over a large surface between the torsion protected insert and the gland body.

TECHNICAL INFORMATION

TYPE	: PG
DESIGN SPECIFICATION	: BS 6121: PART 1: 1989
CABLE GLAND MATERIAL	: NICKEL PLATED BRASS
CABLE TYPE	: SWA
INGRESS PROTECTION RATING	: IP 66

Thread Size (A)	Enter Thread Length (B)	C	A/F	A/C	Cable Clamping Range (Min-Max) Mm
PG 7	6.00	7.00	14.00	15.50	3-6.5
PG 9	7.00	8.50	17.50	19.00	4-8
PG 11	7.00	10.50	20.50	22.00	5-10
PG 13.5	7.00	12.50	22.50	24.50	6-12
PG 16	6.50	14.50	24.50	26.50	10-14
PG 21	8.00	18.50	31.50	34.00	13-18
PG 29	9.00	25.50	40.50	44.50	18-25
PG 36	10.00	33.00	50.00	55.00	25-32
PG 42	11.00	39.00	55.00	60.00	32-38
PG 48	13.00	46.00	65.00	70.50	37-44

All dimensions are in millimetre

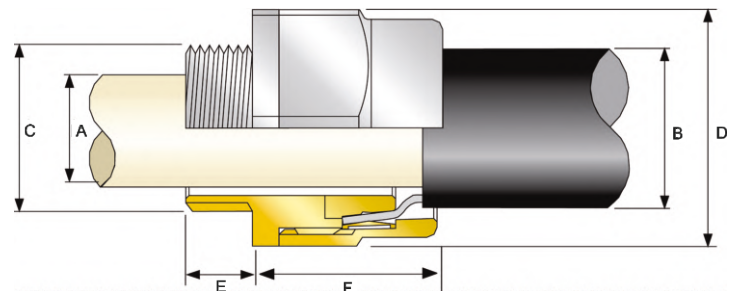


ALCO G CABLE GLAND

RUPAM Alco G Type brass indoor cable gland for use with all types of Single Wire Armour (SWA) cable providing mechanical cable retention and electrical continuity through armour wire termination. The Alco G design offers the benefit of a longer body to protect the armour wires from impact. The Alco G range of industrial cable glands is designed as per BS6121:1989 and IEC 62444.

TECHNICAL INFORMATION

TYPE	: ALCO G
DESIGN SPECIFICATION	: BS 6121: PART 1: 1989
CABLE GLAND MATERIAL	: NICKEL PLATED BRASS
CABLE TYPE	: SINGLE WIRE ARMOUR (SWA)
INGRESS PROTECTION RATING	: IP 54



Gland Size	Entry Thread		Cable Acceptance Detail			Across Flat	Across Corner
	Dia. C	Length Minimum E	Dia. "A" Max	Dia. "B" Max	Across Diameter		
204	20	9	11.5	17	0.9/1.25	22	25
206	20	9	13.8	20	0.9/1.25	26	29
254	25	9	16.5	22	1.25/1.60	31.5	35.5
256	25	9	18.8	24.5	1.25/1.60	34	38
324	32	9	22.8	29	1.60/2.00	38.5	43.5
326	32	10	26.5	33	1.60/2.00	41	46
405	40	10	33	40.5	1.60/2.00	46	51
503	50	11	39	47	1.60/2.00	49.5	56
505	50	11	44	52	2.00/2.50	57	64
636	63	15	55	65	2.5	61	68
753	75	15	61.5	71	2.5	70	79
755	75	15	67.5	71	2.5	78	86

All dimensions are in millimetre



TRS CABLE GLAND

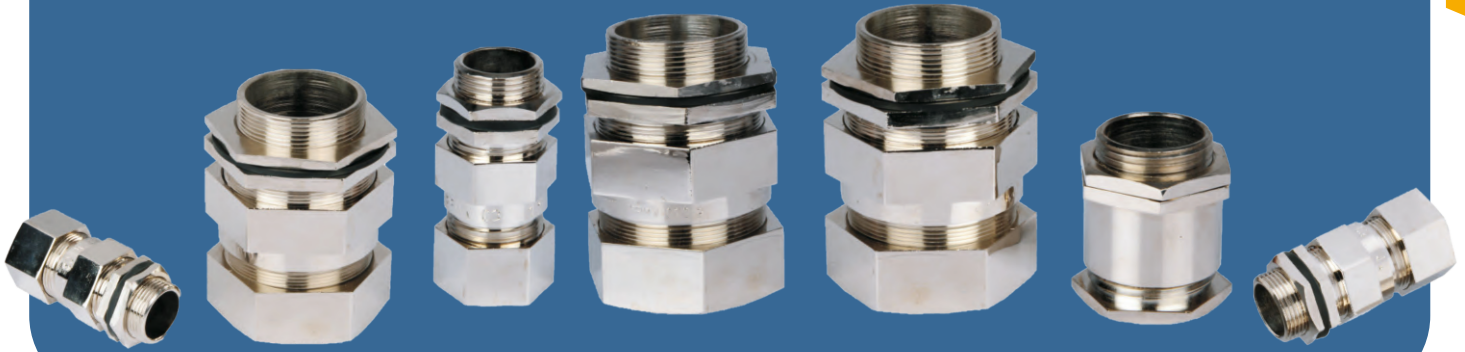
TECHNICAL INFORMATION

- TYPE : TRS
- CABLE TYPE : BRASS
- INGRESS PROTECTION RATING : IP 54

Gland Size	Thread	Cable Dia Maximum	Across Flat Maximum
16	M16	6.30	17.50
20	M20	8.00	21.50
25	M25	11.50	27.00
32	M32	15.00	34.00

All dimensions are in millimetre

SINGLE AND DOUBLE COMPRESSION CABLE GLANDS



**Brass Single Compression
SCG Cable Gland**

**Brass Double Compression
Cable Gland**

TECHNICAL INFORMATION

TYPE : SINGLE COMPRESSION
DESIGN SPECIFICATION : IS 12943 : 1990
CABLE GLAND MATERIAL : BRASS
CABLE TYPE : UNARMoured
INGRESS PROTECTION RATING : IP 54

TECHNICAL INFORMATION

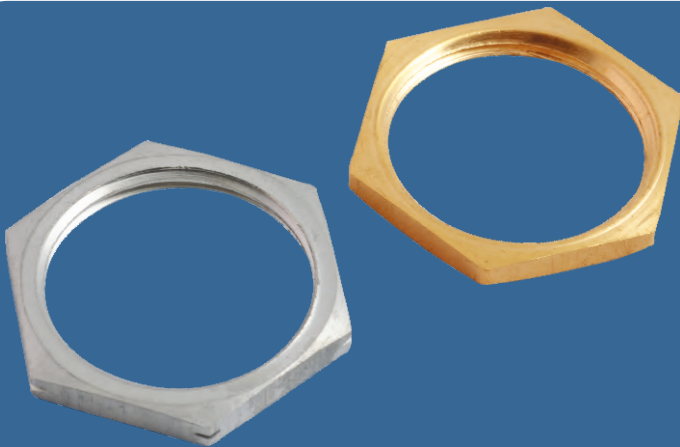
TYPE : DOUBLE COMPRESSION
DESIGN SPECIFICATION : IES 60529 : 2001
CABLE GLAND MATERIAL : BRASS
CABLE TYPE : ARMoured
INGRESS PROTECTION RATING : IP 66

Size	SIBG Code	Cable Dimension Overall Dia		Entry Thread C	
		Under	Over	Inch	MM
RPM1	1612	9.00	12.00	5/8"	16
RPM2	1616	9.00	16.00	5/8"	16
RPM3	1619	10.00	16.00	3/4"	20
RPM4	2119	14.00	20.00	3/4"	20
RPM5	2125	14.00	20.00	1"	25
RPM6	2925	20.00	26.00	1"	25
RPM7	2932	24.00	29.00	1 1/4"	32
RPM8	2938	24.00	29.00	1 1/4"	40
RPM9	3638	31.00	37.00	1 1/4"	40
RPM10	4251	42.00	45.00	2"	50
RPM11	5451	44.00	50.00	2"	50
RPM12	5463	44.00	50.00	2 1/2"	63
RPM13	6063	54.00	60.00	2 1/2"	63
RPM14	6675	60.00	66.00	3"	75
RPM15	-	66.00	72.00	3"	75
RPM16	7882	70.00	77.00	3 1/2"	82
RPM17	8490	79.00	84.00	3 1/2"	90

All dimensions are in millimetre

Size	Cable Dimension Overall Dia		Entry Thread
	Under	Over	Inch
RPMW 01SS	8.00	14.00	3/4"
RPMW 01S	10.00	16.50	3/4"
RPMW 01	12.50	18.00	3/4"
RPMW 01A	12.50	18.00	1"
RPMW 02	14.00	20.00	1"
RPMW 02A	14.00	20.00	3/4"
RPMW 03	17.00	23.00	1"
RPMW 04	20.00	26.00	1"
RPMW 04A	20.00	26.00	1 1/4"
RPMW 05	24.00	30.00	1 1/4"
RPMW 05A	24.00	30.00	1 1/4"
RPMW 06	27.00	33.00	1 1/4"
RPMW 06A	27.00	33.00	1 1/4"
RPMW 07	30.00	37.00	1 1/4"
RPMW 08	35.00	41.00	2"
RPMW 09	40.00	46.00	2"
RPMW 010	46.00	52.00	2"
RPMW 010A	46.00	52.00	2 1/2"
RPMW 011	54.00	60.00	2 1/2"
RPMW 012	60.00	67.00	3"
RPMW 013A	66.00	72.00	3"
RPMW 013	72.00	78.00	3 1/4"
RPMW 014	78.00	84.00	3 1/2"
RPMW 015	84.00	94.00	4"
RPMW 016	98.00	105.00	4 1/2"





LOCKNUT

Available in Brass, Nickle Plated and Stainless Steel

METRIC THREADS	NPT THREAD	PG THREADS
M 12	1/2" NPT	PG 7
M 16	3/4" NPT	PG 9
M 20	1" NPT	PG 11
M 25	1 1/4" NPT	PG 13.5
M 32	1 1/2" NPT	PG 16
M 40	2" NPT	PG 21
M 50	2 1/2" NPT	PG 29
M 63	3" NPT	PG 36
M 75		PG 42
M 90		PG 48



CASTLENUT

SIZE
M 20
M 25
1/2" NPT
3/4" NPT

Available in Brass, Nickle Plated and Stainless Steel



EARTH TAG

Available in Brass, Nickle Plated and Stainless Steel

NPT THREADS	PG THREADS
1/2" NPT	PG 11
3/4" NPT	PG 13.5
1" NPT	PG 16
1 1/4" NPT	PG 21
1 1/2" NPT	PG 29
2" NPT	PG 36
	PG 42
	PG 48

METRIC THREADS
SIZE
M 12
M 16
M 20
M 25
M 32
M 40
M 50
M 63
M 75
M 90



P.V.C. SHROUD



L.S.F LOW SMOKE FUME SHROUD

PVC Shroud

SIZE	
BW	CW
20mm S	20mm S
20mm	20mm
25mm	25mm
32mm	32mm
40mm	40mm
50mm	50mm
63mm	63mm
75mm	75mm

LSF Shroud

SIZE	
BW	CW
20mm S	20mm S
20mm	20mm
25mm	25mm
32mm	32mm
40mm	40mm
50mm	50mm
63mm	63mm
75mm	75mm



CABLE MANAGEMENT

P.V.C. SHROUD
Various Colours
RED, ORANGE, BLACK & WHITE

NYLON WASHER
Size: 20 mm till 90 mm

HEXAGONAL REDUCER

HEXAGONAL STOP PLUG

ROUND HEAD STOP PLUG

Available in Brass, Nickle Plated and Stainless Steel

Available in Brass, Nickle Plated and Stainless Steel

Female Thread	Male Thread
M12	M16
M12	M20
M16	M20
M16	M25
M20	M25
M20	M32
M25	M32
M20	M40
M25	M40
M32	M40
M25	M50
M32	M50
M40	M50
M40	M63
M50	M63
M50	M75
M63	M75

Size	Thread
M12	M 12X1.5
M16	M 16X1.5
M20	M 20X1.5
M25	M 25X1.5
M32	M 32X1.5
M40	M 40X1.5
M50	M 50X1.5
M63	M 63X1.5
M75	M 75X1.5
M90	M 90X1.5
M100	M 100X1.5

Size	Thread
M12	M 12X1.5
M16	M 16X1.5
M20	M 20X1.5
M25	M 25X1.5
M32	M 32X1.5
M40	M 40X1.5
M50	M 50X1.5
M63	M 63X1.5

BRASS EARTH NUT

Size	Thread
M20	M 20X1.5
M25	M 25X1.5
M32	M 32X1.5



MALE BUSH

SIZE: METRIC Threads 20MM TO 75MM
IMPERIAL Threads 1/2" to 2 1/2"

NOTE: Male Bush Available in short threads length and long threads length

Available in Brass, Nickle Plated and Stainless Steel



FEMALE BUSH

SIZE: METRIC Threads 20MM TO 75MM
IMPERIAL Threads 3/4" to 2 1/2"

Available in Brass, Nickle Plated and Stainless Steel

ROUND ADAPTORS CONNECTOR

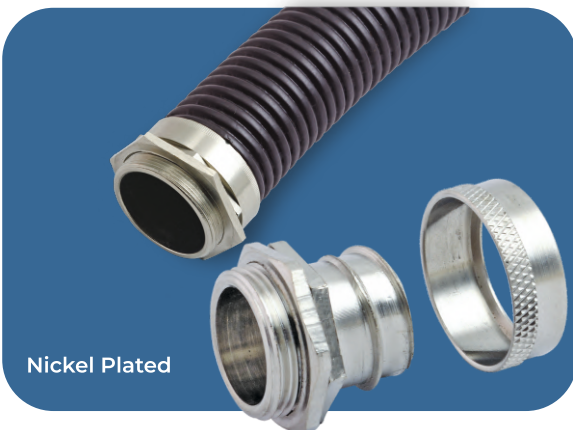


TECHNICAL INFORMATION

TYPE : ROUND ADAPTORS
DESIGN SPECIFICATION : IMPERIAL THREAD CONDUITS
MATERIAL : BRASS

Conduit Thread	Flexible Thread
1/2"	1/2"
5/8"	1/2"
5/8"	5/8"
3/4"	5/8"
3/4"	3/4"
1"	3/4"
1"	1"
1 1/4"	1 1/4"
1 1/2"	1 1/2"
2"	2"
2 1/2"	2 1/2"
3"	3"

FIX MALE CONNECTOR



Nickel Plated

SWIVEL MALE CONNECTOR



TECHNICAL INFORMATION

TYPE : FIX & SWIVEL CONNECTORS
DESIGN SPECIFICATION : METRIC THREAD CONDUITS
MATERIAL : BRASS

Conduit Thread	Flexible Thread
20 mm	20 mm
25 mm	25 mm
32 mm	32 mm
40 mm	40 mm
50 mm	50 mm

NOTE: Above Products are available as per customer's specification & requirement

These accessories are manufactured from Mild Steel with Zinc Plating or Black Enamel finish. Meets requirements of BS 4568 and BSEN 61386



HEX LOCK NUT

SIZE	FINISH
20 MM	BZP
25 MM	BZP
32 MM	BZP
40 MM / 1.5"	BZP
50 MM / 2"	BZP



MILLED EDGE - LOCK RING

SIZE	FINISH
20 MM	BZP
25 MM	BZP
32 MM	BZP
40 MM / 1.5"	BZP
50 MM / 2"	BZP



DISTANCE SADDLES

SIZE	FINISH
20 MM	BZP
25 MM	BZP



HALF SADDLES

SIZE	FINISH
20 MM	BZP, BLACK
25 MM	BZP, BLACK



SPACER BAR SADDLES

SIZE	FINISH
20 MM	BZP, BLACK, WHITE
25 MM	BZP, BLACK, WHITE
32 MM	BZP, BLACK, WHITE
1.5"	BZP, BLACK, WHITE
2"	BZP, BLACK, WHITE



PLAIN SADDLES

SIZE	FINISH
20 MM	BZP, BLACK
25 MM	BZP, BLACK
32 MM	BZP, BLACK
1.5"	BZP, BLACK
2"	BZP, BLACK



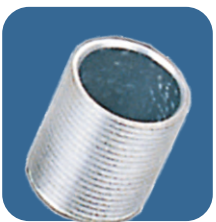
FLAT CRAMPETS

SIZE	FINISH
20 MM	BZP, BLACK
25 MM	BZP, BLACK



TWISTED CRAMPETS

SIZE	FINISH
20 MM	BZP, BLACK
25 MM	BZP, BLACK



NIPPLE

SIZE	FINISH
20 MM	BZP
25 MM	BZP
32 MM	BZP
1.5"	BZP
2"	BZP



COUPLER

SIZE	FINISH
20 MM	BZP
25 MM	BZP



LOOPING BOX

SIZE	FINISH
1 HOLE	BZP, BLACK
2 HOLE	BZP, BLACK
3 HOLE	BZP, BLACK
4 K.O.	BZP, BLACK



FLANGE COUPLER

SIZE	FINISH
20 MM	BZP
25 MM	BZP
32 MM	BZP



CIRCULAR JUNCTION BOX

SIZE	TYPE	FINISH
20 MM	1, 2, 3, 4 WAY ANGLE WAY, U-H-Y WAY	CAST IRON, HOT DIPPED GALV
25 MM		CAST IRON, HOT DIPPED GALV



HOOK PLATE

SIZE	FINISH
-	BZP



MALE HOOKS

SIZE	FINISH
20 MM	BZP



REDUCER

SIZE	FINISH
20MM X 16MM	BZP, BLACK
25MM X 20MM	BZP, BLACK
32MM X 20MM	BZP, BLACK
32MM X 25MM	BZP, BLACK



HEX STOP END

SIZE	FINISH
20 MM	BZP, BLACK
25 MM	BZP, BLACK
32 MM	BZP, BLACK



DOME COVER

SIZE	FINISH
20 MM	BZP



BOX LID

SIZE	FINISH
20 MM	BZP, BLACK



DOME COVER CAST IRON

SIZE	FINISH
20 MM	CAST IRON
25 MM	CAST IRON



ELBOW INSPECTION

SIZE	FINISH
20 MM	BZP
25 MM	BZP



NORMAL BEND

SIZE	FINISH
20 MM	BZP
25 MM	BZP
32 MM	BZP
1.5"	BZP
2"	BZP



TEE INSPECTION

SIZE	FINISH
20 MM	BZP
25 MM	BZP



EXTENSION RING

SIZE	FINISH
10 MM	BZP, BLACK
13 MM	BZP, BLACK
16 MM	BZP, BLACK
20 MM	BZP, BLACK
25 MM	BZP, BLACK
32 MM	BZP, BLACK
40 MM	BZP, BLACK
50 MM	BZP, BLACK

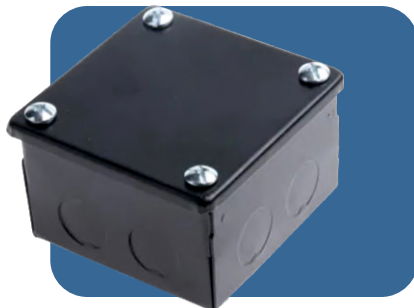
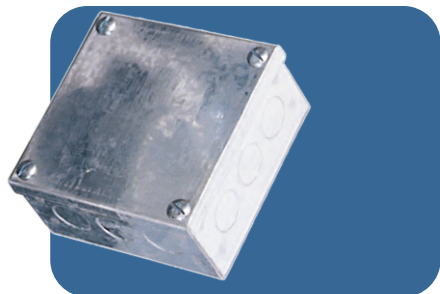


SERRATED WASHER

SIZE (MM)	SIZE (NPT)	FINISH
20mm	1/2"	BZP
25mm	3/4"	BZP
32mm	1"	BZP
40mm	1 1/4"	BZP
50mm	1 1/2"	BZP
63mm	2"	BZP

ADAPTABLE BOX

A range of adaptable boxes with various sizes available with knockouts or with plain sides. Manufactured from pre-galvanised steel.



SIZE (MM)	SIZE (INCHES)	FINISH
75 X 75 X 37.5	3 X 3 X 1 1/2"	PRE-GALV. / BLACK
75 X 75 X 50	3 X 3 X 2"	PRE-GALV. / BLACK
75 X 75 X 75	3 X 3 X 3"	PRE-GALV. / BLACK
100 X 100 X 37.5	4 X 4 X 1 1/2"	PRE-GALV. / BLACK
100 X 100 X 50	4 X 4 X 2"	PRE-GALV. / BLACK
100 X 100 X 75	4 X 4 X 3"	PRE-GALV. / BLACK
100 X 100 X 100	4 X 4 X 4"	PRE-GALV. / BLACK
150 X 75 X 50	6 X 3 X 2"	PRE-GALV. / BLACK
150 X 75 X 75	6 X 3 X 3"	PRE-GALV. / BLACK
150 X 100 X 50	6 X 4 X 2"	PRE-GALV. / BLACK
150 X 100 X 75	6 X 4 X 3"	PRE-GALV. / BLACK
150 X 150 X 37.5	6 X 6 X 1 1/2"	PRE-GALV. / BLACK
150 X 150 X 50	6 X 6 X 2"	PRE-GALV. / BLACK
150 X 150 X 75	6 X 6 X 3"	PRE-GALV. / BLACK
150 X 150 X 100	6 X 6 X 4"	PRE-GALV. / BLACK
225 X 150 X 50	9 X 6 X 2"	PRE-GALV. / BLACK
225 X 150 X 75	9 X 6 X 3"	PRE-GALV. / BLACK
225 X 150 X 100	9 X 6 X 4"	PRE-GALV. / BLACK
225 X 225 X 50	9 X 9 X 2"	PRE-GALV. / BLACK
225 X 225 X 75	9 X 9 X 3"	PRE-GALV. / BLACK
225 X 225 X 100	9 X 9 X 4"	PRE-GALV. / BLACK
300 X 300 X 50	12 X 12 X 2"	PRE-GALV. / BLACK
300 X 300 X 75	12 X 12 X 3"	PRE-GALV. / BLACK
300 X 300 X 100	12 X 12 X 4"	PRE-GALV. / BLACK
300 X 300 X 150	12 X 12 X 6"	PRE-GALV. / BLACK

TELESCOPIC STUD WALL BRACKET



SIZE (MM)	SIZE (INCHES)	FINISH
250 - 400 MM	10" - 16"	PRE-GALV.
400 - 600 MM	16" - 24"	PRE-GALV.

FIRE RESISTANT ACCESSORIES



SPACER BAR SADDLE POWDER COATED

(Steel spacerbar saddle with powder coating for PVC conduit)

SIZE	FINISH
20 MM	WHITE , BLACK
25 MM	WHITE , BLACK



FIRE TRUNKING CLIP

(Easy to fold clips for securing cables inside PVC Trunking)

SIZE	FINISH
25 MM	PRE GALV , BLACK , RED
38 MM	PRE GALV , BLACK , RED
50 MM	PRE GALV , BLACK , RED



STEEL CABLE CLEAT

(Quick and easy to install fixing for holding cables onto walls)

SIZE	CABLE DIAMETER	FINISH
05	10.1mm - 12.7mm	BLACK
06	12.6mm - 15.7mm	BLACK
07	15.1mm - 17.8mm	BLACK
08	17.7mm - 20.3mm	BLACK
09	20.2mm - 22.8mm	BLACK



STAINLESS STEEL CABLE TIE

(Customise the length as per customer's requirement)

Type: Roller ball un-coated and Black coated

Width: 4.6 mm and 7.9 mm

Material: SS 304 & SS 316

LENGTH (IN MM)	MAXIMUM BUNDLE DIA. (IN MM)
200	50
300	85
360	100
520	155

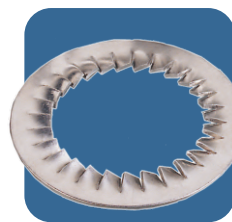
STAINLESS STEEL CONDUIT AND ELECTRICAL ACCESSORIES

Manufactured from High-grade Stainless Steel using precision engineering, these accessories are used for special purpose in industries like Oil and Gas, Food, Hospital etc. We have standard products as well bespoke products based on customer drawings.



FLANGE COUPLER

SIZE (METRIC)	GRADE
20 MM	304, 316
25MM	304, 316
32MM	304, 316



SERRATED WASHERS

SIZE (METRIC)	SIZE (INCHES)	GRADE
M16	1/2" NPT	304, 316
M20	3/4" NPT	304, 316
M25	1" NPT	304, 316
M32	1 1/4" NPT	304, 316
M40	1 1/2" NPT	304, 316
M50	2" NPT	304, 316
M63		304, 316



COUPLER

SIZE (METRIC)	GRADE
20 MM	304, 316
25 MM	304, 316
32 MM	304, 316



NIPPLE

SIZE (METRIC)	GRADE
20 MM	304, 316
25 MM	304, 316

EMT CONDUIT FITTINGS



EMT 1 HOLE & 2 HOLE STRAP

SIZE (INCHES)	TYPE	FINISH
1/2" TO 2"	EMT 1 HOLE STRAP	BZP
1/2" TO 2"	EMT 2 HOLE STRAP	BZP



SET SCREW CONNECTOR

SIZE (INCHES)	FINISH
1/2", 3/4"	ZINC DIE CAST



SQUEEZE CONNECTOR

SIZE (INCHES)	FINISH
1/2", 3/4"	ZINC DIE CAST



EMT & RIGID CHANNEL CLAMP

SIZE	FINISH
1/2" TO 3"	BZP



SET SCREW COUPLING

SIZE (INCHES)	FINISH
1/2", 3/4"	ZINC DIE CAST



STEEL BOX COVER

SIZE	SIZE (INCHES)	FINISH
7 X 7	1/2", 3/4" K.O.	PRE-GALV.
8 X 8	1/2", 3/4" K.O.	PRE-GALV.
10 X 10	1/2", 3/4" K.O.	PRE-GALV.

Grommets protect cables from steel knockouts of switch and adaptable boxes. Gaskets gives protection against dust and water.



CIRCULAR GASKET

SIZE	FINISH
20 MM	BLACK
25 MM	BLACK



OPEN GROMMETS

SIZE	FINISH
20 MM	BLACK
25 MM	BLACK
32 MM	BLACK
38 MM	BLACK
50 MM	BLACK



BLIND GROMMET

SIZE	FINISH
20 MM	BLACK
25 MM	BLACK
32 MM	BLACK
38 MM	BLACK
50 MM	BLACK



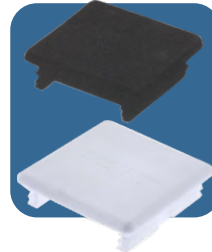
SUPER OPEN GROMMETS

SIZE	FINISH
20 MM	BLACK
25 MM	BLACK
32 MM	BLACK



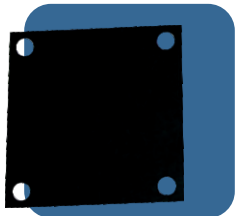
SUPER BLIND GROMMET

SIZE	FINISH
20 MM	BLACK
25 MM	BLACK
32 MM	BLACK



PVC END CAP

SIZE	FINISH
41 X 41MM	PVC (BLACK, WHITE)



RUBBER GASKET

SIZE (INCHES)	FINISH
3" X 3"	BLACK
4" X 4"	BLACK
6" X 6"	BLACK