Raychem RPG

ENGINEERING GROWTH. PIONEERING EXCELLENCE

R/LOC

Industrial Cable Glands

& Accessories

TE connectivity RPG

(A TE-Connectivity - RPG Enterprises JV)

Who we are?

Raychem RPG (P) Ltd., incorporated in 1989, is a 50:50 joint Venture between TE Connectivity, U.S.A. (formerly Tyco Electronics) and RPG Enterprises, India.

TE Connectivity is a US$14 Billion global provider for solutions in Network, Transportation, Consumers and Industrial for over 50 years.

RPG Enterprises, an establishment of over 30 years, is one of India's fastest growing business groups with turnover of US$ 4 Billion. The group has more than fifteen companies managing diverse business interests in the areas of Automotive Tyres, Infrastructure, IT and Specialty including Pharmaceuticals, Power Ancillaries & Plantations.

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INTRODUCTION TO INDUSTRIAL CABLE GLANDS

FUNCTIONS OF CABLE GLAND

- Cable Gland is a device designed to ease the entry of a cable, flexible cable or insulated conductor into an enclosure.
- It provides environmental protection by necessary sealing, preventing the dust and moisture from entering the enclosure/cable.
- Cable Glands also helps in retention of the cables, in a situation of any external force on the cable and thus ensures resistance to force.
- It also provides significant functions such as earthing, bonding, insulation, cable guarding, strain relief or a combination of these.

PRODUCT DESIGN

- Raychem RPG Cable Glands are designed for use with all types of electrical power, control, instrumentation, data telecommunications cables & fire rated cables.
- They are used as a sealing and termination device to ensure that the characteristics of the enclosure which the cable enters can be maintained adequately.

- **Body Armour** houses power cable and suppports 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.

CONSTRUCTION OF SEALING MECHANISM

At Raychem RPG, we use the optimum rubber material in the following ways to offer efficient sealing.

- Compression sealing is an elastomeric sealing ring that has a V-groove that creates a downward seal, by compressive force which is equally applied on all sides of the seal.
- Displacement sealing has a shape in the form of a taper from outside by which it is gradually compressed ahead till it makes an effective seal to the cable.

TYPE OF INDUSTRIAL CABLE GLANDS

- RSU Cable Gland
- RSA Cable Glands
- RDA Cable Glands

Cable Gland primary code for armoured and unarmoured cables.

Code	Definition
RSU	For unarmoured cable, with an elastomeric seal for sealing cable outer sheath
RSA	For armoured cable, with outer seal and armour locking
RDA*	For armoured cable, with inner and outer seal and armour locking

COMPLIANCE STANDARDS

Our cable glands meet the requirement of BS 6121-1:2005; BS EN 62444:2013, IEC 62444:2010/low voltage directives 2014/35/EU

ACCESSORIES

Raychem RPG Brass cable glands supplies will be with complete kit comprising of the following:

1. Earth Tags
2. Shrouds PVC / LSZH / LSOH
3. Sealing Washers - Nylon 66 (Polyamide) / Neoprene / Silicon (Other high temperature seals available on request)

APPROVALS FOR INDUSTRIAL CABLE GLANDS

Raychem RPG industrial cable gland RSU, RSA and RDA are CE approved as per applicable Low Voltage directive 2014/35/EU and applicable Standard IEC/EN 62444. The CE marking indicates a product's compliance with EU legislation and so enables the free movement of products within the European market. By affixing the CE marking to a product, a manufacturer declares, on his sole responsibility, that the product meets all the legal requirements for the CE marking, which means that the product can be sold throughout the European Economic Area.

Raychem RPG manufactured Cable Glands & related accessories are ROHS complaint in accordance with ROHS directive 2011/65/EU/& its subsequent amendment directives & is tested for the presence of Lead (Pb), Cadmium (Cd), Mercury (Hg) Hexavalent Chromium (Hex-Cr), Polybrominated Biphenyl (PBB) and Polybrominated Diphenyl Ethers (PBDE) and oserved no dangerous substance.

Raychem RPG cable glands are approved as per IEC 62444 Category B (for electrical) and Category 8 (for impact strength).

WHY RAYCHEM RPG?

Quality

At Raychem RPG, quality is a long history of success and recognition. Today the company is one of the Indian businesses to have adjusted and certified its progress according to strict regulatory standards:

- Quality (ISO 9001 : 2015)
- Environment (ISO 14001 : 2015)
- Safety (OHSAS 18001 : 2007)

Production Control

In order to guarantee our productshigh qualitystandards, the productionprocess must be monitoredw ithc onstantand careful precision.Thec ontrol phasesa ccompanya ll the stages of production ando ften use advanced technology form easurement and detection.W e use thec utting edge CNC machine for all ourm anufacturing operations relatedto maintaintheworldc lassstandardo fR aychem RPG.

Care for Environment

Raychem RPG believes that industrial development can truly respect, and therefore be compatible with the environment. For Raychem RPG, protecting the environment and the people and things around you is an important responsibility that requires constant and immediate consideration. It is a conscious decision which involves believing in the future.

Competitive Enterprise

One of Raychem RPG's aims is knowing how to offer its users best possible solution in consideration of the quality-price ratio. The fact that thousands of clients all over the world are faithful to Raychem RPG products demonstrates the technical and economic validity of the solution offered.

Global Capability

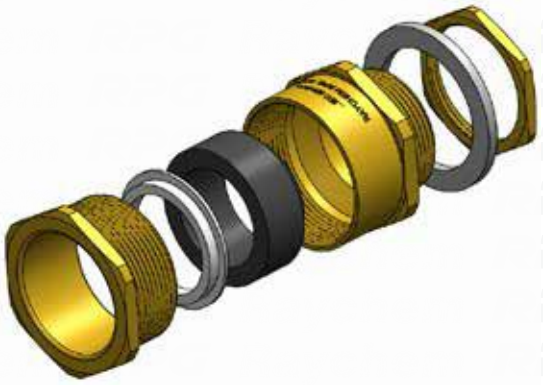
The company's sales network is one of its strengths. It enables Raychem RPG to be present on all the main global markets consequently being as closely as possible to the end customer. The company has it's presence in all over Globe. This direct access to each market allows the Raychem RPG staff to remain inside the market with the advantage of being closer tothe client.

RSU: SINGLE SEAL CABLE GLANDS

FOR UNARMOURED CABLES

Technical Data :

Design specification	:	IEC/EN 62444
Mechanical Category	:	Impact category 8 (IK 10), Retention
Level of Ingress Protection	:	IP 66 (EN 60529), (IP 67, IP68 * Optional)
Cable Type	:	Unarmoured
Seal Operating Temperature	:	Neoprene - From -40°C to +100°C Silicon -From -50°C to +135°C (Optional)
Material	:	Brass, Stainless Steel, Nickel Plated Brass
Thread type	:	Level D Metric / NPT (Other thread type also available upon request: PG / ANS)



Item	Description
1	Entry nut
2	Retainer ring White
3	Displacement washer
4	Body inner sheath
5	Cable

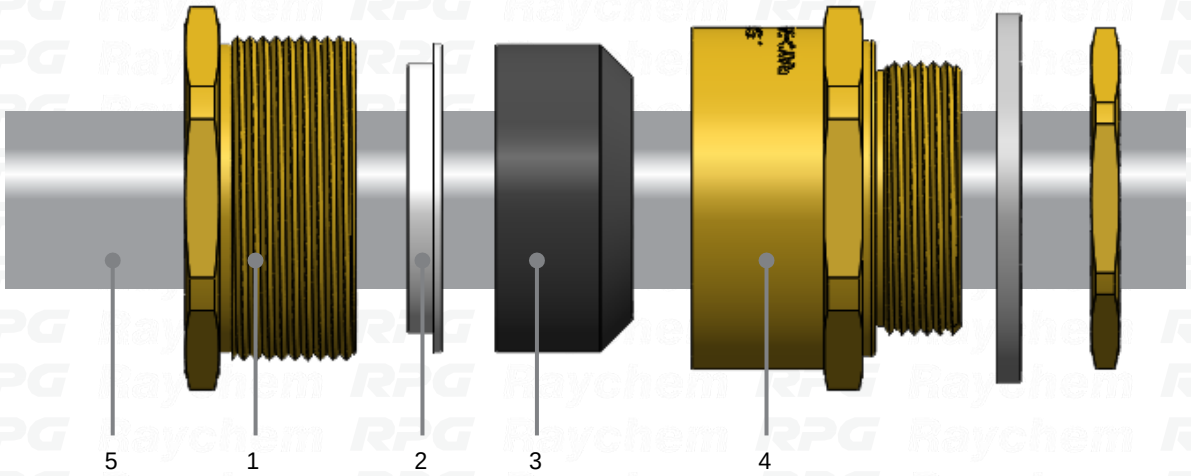
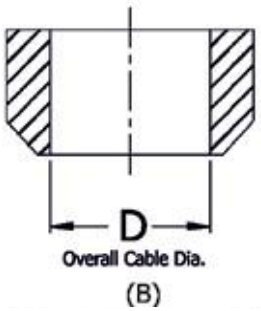
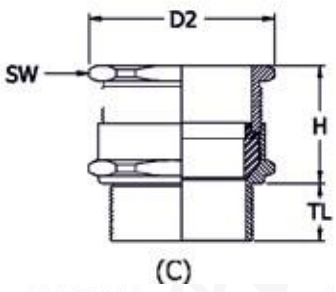


Diagram 01





RSU: SINGLE SEAL CABLE GLANDS

FOR UNARMOURED CABLES

No. of Sealing	Size	Material			Sealing material		Code example
RSU	XXXX	BR	NI	SS	SI	N	
RSU	Metric: MXXX NPT: NXXX	Brass	Nickel Plated Brass	Stainless Steel	Silicon	Neoprene	RSUM20SBRN

METRIC

Thread Type	RSU Cable Gland Code	Clamping range min-max (Dig. 1-B)	Cable Gland Dimensions (Dig. 1-C)			
		D mm	H min (mm)	TL min (mm)	SW (mm)	D2 (mm)
M20x1.5	RSUM20S	3.2 - 8.7	22.0	10.0	22.0	24.0
M20x1.5	RSUM2OM	6.1 -11.7	22.0	10.0	22.0	24.0
M20x1.5	RSUM2OL	6.5 -14.0	30.0	10.0	30.0	35.0
M25x1.5	RSUM25L	11.1 -20.0	35.0	10.0	35.0	38.5
M32x1.5	RSUM32L	17.0 - 26.3	35.0	10.0	40.0	44.0
M40x1.5	RSUM40L	23.5- 32.2	38.0	15.0	50.0	53.0
M50x1.5	RSUM50S	31 - 38.2	38.0	15.0	55.0	60.0
M50x1.5	RSUM50L	35.6 -44.0	40.0	15.0	60.5	65.0
M63x1.5	RSUM63S	41.5 - 49.9	40.0	15.0	66.0	73.5
M63x1.5	RSUM63L	47.2 -55.9	40.0	15.0	71.0	78.0
M75x1.5	RSUM75S	54.0 - 61.9	42.0	15.0	80.0	87.0
M75x1.5	RSUM75L	61.1-67.9	42.0	15.0	85.0	92.0
M90x1.5	RSUM90L	66.6 - 79.9	45.0	24.0	108.0	118.0
M100x1.5	RSUM100L	76.0 -91.0	55.0	24.0	123.0	135.0

NPT

Thread Type	RSU Cable Gland Code	Clamping Range min-max (Dig. 1-B)	Cable Gland Dimensions (Dig. 1-C)			
		D mm	H min (mm)	TL min (mm)	SW (mm)	D2 min (mm)
NPT1/2"	RSUN12S	3.2 - 8.7	22.0	20.0	22.0	24.0
NPT1/2"	RSUN12M	6.1 -11.7	22.0	20.0	22.0	24.0
NPT1/2"	RSUN12L	6.5 -14.0	30.0	20.0	30.0	35.0
NPT3/4"	RSUN34L	11.1 -20.0	35.0	20.0	35.0	36.5
NPT1"	RSUN01L	17.0 - 26.3	35.0	25.0	40.0	44.0
NPT1 1/4"	RSUN114L	23.5- 32.2	38.0	27.0	50.0	53.0
NPT1 1/2"	RSUN112L	31 - 38.2	38.0	27.0	55.0	60.0
NPT2"	RSU N02S	35.6 -44.0	40.0	27.0	60.5	65.0
NPT2"	RSUN02L	41.5 - 49.9	40.0	27.0	66.0	73.5
NPT2 1/2"	RSUN212S	47.2 -55.9	40.0	27.0	71.0	78.0
NPT2 1/2"	RSUN212L	54.0 - 61.9	42.0	35.0	80.0	87.0
NPT3"	RSUN03L	61.1-67.9	42.0	35.0	85.0	92.0
NPT3 1/2"	RSUN312L	66.6 - 79.9	45.0	35.0	108.0	118.0
NPT4"	RSUN04L	76.0 -91.0	55.0	40.0	123.0	135.0

RSA: SINGLE SEAL CABLE GLANDS

FOR ARMOURED CABLES

Technical Data :

Design specification	:	IEC/EN 62444 BS 6121-1
Electrical Category	:	Categories B
Mechanical Category	:	Impact category 8 (IK 10), Retention
Level of Ingress Protection	:	IP 66 (EN 60529), (IP 67, IP68 * Optional)
Cable Type	:	Armoured (SWA - AWA)
Seal Operating Temperature	:	Neoprene - From -40°C to +100°C Silicon - From -50°C to +135°C (Optional)
Material	:	Brass, Stainless Steel, Nickel Plated Brass
Thread type	:	Level D Metric / NPT (Other thread type also available upon request: PG / ANS)

Item	Description
1	Entry nut
2	Retainer ring blue
3	Compression washer
4	Main body
5	Sealing ring
6	Armour
7	Cone body
8	Cable

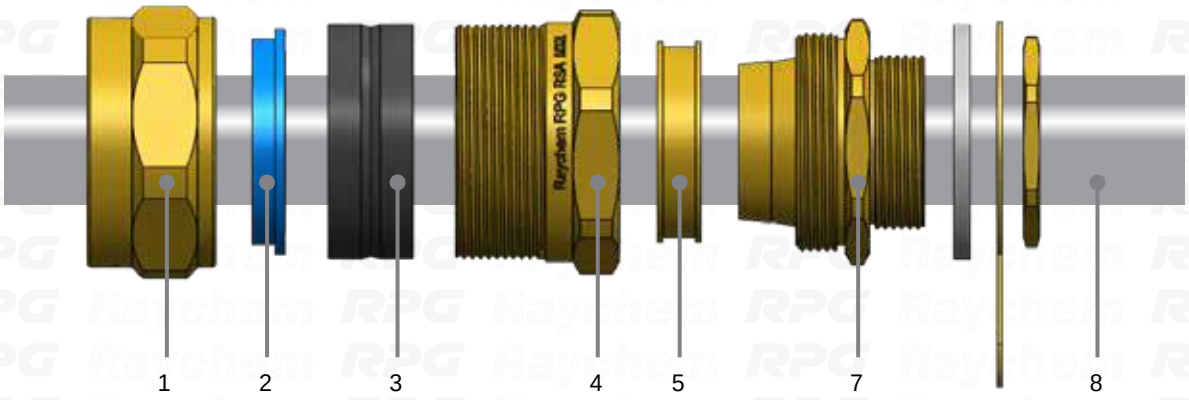
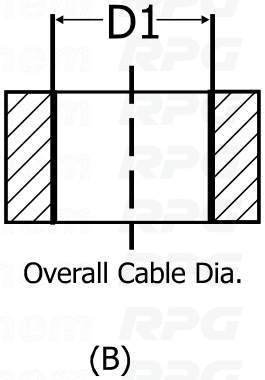


Diagram 02



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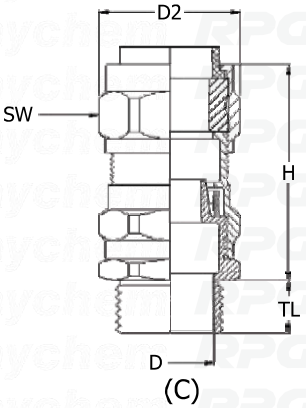

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RSA: SINGLE SEAL CABLE GLANDS

FOR ARMOURED CABLES

No. of Sealing	Size	Material			Sealing material		Code example
RSA	XXXX	BR	NI	SS	SI	N	
RSA	Metric: MXXX NPT: NXXX	Brass	Nickel Plated Brass	Stainless Steel	Silicon	Neoprene	RSAM20SBRN

METRIC

Thread Type	RSA Cable Gland Code	Clamping Range min-max (Dig. 2-B)	Cable Gland Dimensions (Dig. 2-C)					Armour Range min-max (mm)
		D mm	H min (mm)	TL min (mm)	SW (mm)	D (mm)	D2 (mm)	
M20x1.5	RSAM20S	6.1-13.1	48.0	10.0	24.0	8.7	26.5	0.8-1.25
M20x1.5	RSAM20M	9.5-15.9	48.0	10.0	24.0	11.7	26.5	0.8-1.25
M20x1.5	RSAM20L	12.5-20.9	48.0	10.0	30.0	14.0	33.0	0.8-1.25
M25x1.5	RSAM25S	14.0-22.0	56.0	10.0	38.0	20.0	41.5	1.25-1.6
M25x1.5	RSAM25L	18.2-26.2	56.0	10.0	38.0	20.0	41.5	1.25-1.6
M32x1.5	RSAM32L	23.7-33.9	54.0	10.0	46.0	26.0	50.5	1.6-2
M40x1.5	RSAM40L	27.9-40.4	58.0	15.0	55.0	32.2	60.0	1.6-2
M50x1.5	RSAM50S	35.2-46.7	61.0	15.0	60.0	38.2	66.0	2-2.5
M50x1.5	RSAM50L	40.4-53.0	60.0	15.0	70.0	44.1	75.0	2-2.5
M63x1.5	RSAM63S	45.6-59.4	74.0	15.0	75.0	50.0	82.0	2-2.5
M63x1.5	RSAM63L	54.6-65.8	71.0	15.0	80.0	56.0	86.0	2-2.5
M75x1.5	RSAM75S	59.0-72.0	86.0	15.0	90.0	62.0	98.0	2-2.5
M75x1.5	RSAM75L	66.7-78.4	82.0	15.0	98.0	64.2	106.0	2.5-3
M90x1.5	RSAM90L	76.2-90.3	95.0	24.0	114.0	78.6	125.0	3.15-4
M100x1.5	RSAM100L	86.1-101.4	95.0	24.0	123.0	91.0	135.0	3.15-4

NPT

Thread Type	RSA Cable Gland Code	Clamping Range min-max (Dig. 2-B)	Cable Gland Dimensions (Dig. 2-C)					Armour Range min-max (mm)
		D mm	H min (mm)	TL min (mm)	SW (mm)	D (mm)	D2 (mm)	
NPT1/2"	RSAN12S	6.1-13.1	48.0	24.0	24.0	8.7	26.5	0.8-1.25
NPT1/2"	RSAN12M	9.5-15.9	48.0	20.0	24.0	11.7	26.5	0.8-1.25
NPT1/2"	RSAN12L	12.5-20.9	48.0	20.0	30.0	14.0	33.0	0.8-1.25
NPT3/4"	RSAN34S	14.0-22.0	56.0	20.0	38.0	20.0	41.5	1.25-1.6
NPT3/4"	RSAN34L	18.2-26.2	56.0	20.0	38.0	20.0	41.5	1.25-1.6
NPT1"	RSAN01L	23.7-33.9	54.0	20.0	46.0	26.0	50.5	1.6-2
NPT1 1/4"	RSAN114L	27.9-40.4	58.0	25.0	55.0	32.2	60.0	1.6-2
NPT1 1/2"	RSAN112S	35.2-46.7	61.0	27.0	60.0	38.2	66.0	2-2.5
NPT2"	RSAN02S	40.4-53.0	60.0	27.0	70.0	44.1	75.0	2-2.5
NPT2"	RSAN02L	45.6-59.4	74.0	27.0	75.0	50.0	82.0	2-2.5
NPT2 1/2"	RSAN212S	54.6-65.8	71.0	27.0	80.0	56.0	86.0	2-2.5
NPT2 1/2"	RSAN212L	59.0-72.0	86.0	27.0	90.0	62.0	98.0	2-2.5
NPT3"	RSAN03L	66.7-78.4	82.0	35.0	98.0	64.2	106.0	2.5-3
NPT3 1/2"	RSAN312L	76.2-90.3	95.0	35.0	114.0	78.6	125.0	3.15-4
NPT4"	RSAN04L	86.1-101.4	95.0	40.0	123.0	91.0	135.0	3.15-4

RDA: DOUBLE SEAL CABLE GLANDS

FOR ARMOURED CABLES

Technical Data :

Design specification	:	IEC/EN 62444 BS 6121-1
Electrical Category	:	Categories B
Mechanical Category	:	Impact category 8 (IK 10), Retention
Level of Ingress Protection	:	IP 66 (EN 60529), (IP 67, IP68 * Optional)
Cable Type	:	Armoured (SWA - AWA)
Seal Operating Temperature	:	Neoprene - From -40°C to +100°C Silicon - From -50°C to +135°C (Optional)
Material	:	Brass, Stainless Steel, Nickel Plated Brass
Thread type	:	Level D Metric / NPT (Other thread type also available upon request: PG / ANS)

Item	Description
1	Entry nut
2	Retainer ring blue
3	Compression washer
4	Main body
5	Sealing ring
6	Armour
7	Cone body
8	Retainer ring White
9	Displacement washer
10	Body Inner sheath
11	Cable

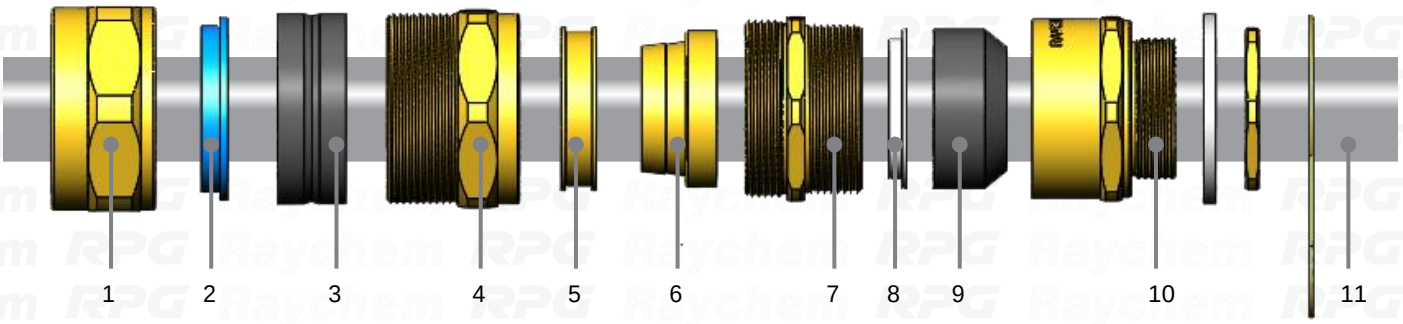
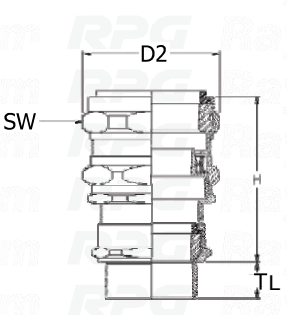


Diagram 03



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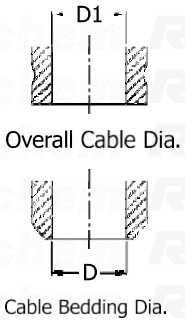

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RDA: DOUBLE SEAL CABLE GLANDS

FOR ARMOURED CABLES

No. of Sealing	Size	Material			Sealing material		Code example
RDA	XXXX	BR	NI	SS	SI	N	
RDA	Metric: MXXX NPT: NXXX	Brass	Nickel Plated Brass	Stainless Steel	Silicon	Neoprene	RDAM20SBRN

METRIC

Thread Type	RSU Cable Gland Code	Clamping Range (mm) Ø min-max (Dig. 3-B)		Cable Gland Dimensions (Dig. 3-C)				Amour Wire Ø mm
		D mm (min-max)	D1 mm (min-max)	H min (mm)	TL min (mm)	SW (mm)	D2 min (mm)	
M20x1.5	RDAM2OS	3.1 - 8.5	6.1 - 13.0	64.0	10.0	24.0	26.5	0.7-1.2
M20x1.5	RDAM2OM	6.1 -11.7	9.5 -15.8	64.0	10.0	24.0	26.5	0.7-1.2
M20x1.5	RDAM2OL	6.5 - 14.0	12.5 - 20.0	66.0	10.0	30.0	33.0	0.7-1.2
M25x1.5	RDAM25S	11.0 -20.0	14.0 -21.9	80.0	10.0	38.0	41.5	1.25-1.6
M25x1.5	RDAM25L	17.0 - 26.0	18.3 - 25.2	80.0	10.0	38.0	41.5	1.25-1.6
M32x1.5	RDAM32L	22.0 -32.2	23.8 -33.0	84.0	10.0	46.0	50.5	1.6-2.0
M40x1.5	RDAM40L	29.5 - 38.0	28.0 - 40.0	85.0	15.0	55.0	60.0	1.6-2.0
M50x1.5	RDAM50S	35.5 -44.0	35.2 -46.0	85.0	15.0	60.0	66.0	2.0-2.5
M50x1.5	RDAM50L	40.0 - 50.0	40.5- 52.5	90.0	15.0	70.0	75.0	2.0-2.5
M63x1.5	RDAM63S	47.5 -55.8	45.7 -59.0	90.0	15.0	75.0	82.0	2.0-2.5
M63x1.5	RDAM63L	53.0 - 62.0	54.7 - 65.0	95.0	15.0	80.0	86.0	2.0-2.5
M75x1.5	RDAM75S	59.0 -64.0	59.0 -71.5	100.0	15.0	90.0	98.0	2.0-2.5
M75x1.5	RDAM75L	66.5 - 78.5	66.8 - 78.0	108.0	15.0	98.0	106.0	2.5-3.0
M90x1.5	RDAM90L	76.0 -90.0	76.2 -90.0	140.0	24.0	114.0	125.0	3.15-4.0
M100x1.5	RDAM100L	76.0 - 90.0	86.5 - 101.0	140.0	24.0	123.0	135.0	3.15-4.0
M90x1.5	RDAM90L	76.0 -90.0	76.2 -90.0	140.0	24.0	114.0	125.0	3.15-4.0
M100x1.5	RDAM100L	76.0 - 90.0	86.5 - 101.0	140.0	24.0	123.0	135.0	3.15-4.0

NPT

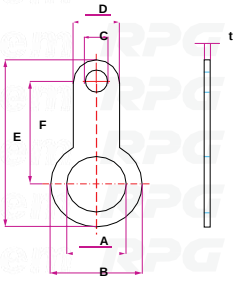
Thread Type	RSU Cable Gland Code	Clamping Rang (mm) Ø min-max (Dig. 3-B)		Cable Gland Dimensions (Dig. 3-C)				Amour Wire Ø mm
		D mm (min-max)	D1 mm (min-max)	H min (mm)	TL min (mm)	SW (mm)	D2 min (mm)	
NPT1/2"	RDAN12S	3.1 - 8.5	6.1 - 13.0	64.0	20.0	24.0	26.5	0.7-1.2
NPT1/2"	RDAN12M	6.1 -11.7	9.5 -15.8	64.0	20.0	24.0	26.5	0.7-1.2
NPT1/2"	RDAN12L	6.5 - 14.0	12.5 - 20.0	66.0	20.0	30.0	33.0	0.7 1.2
NPT3/4"	RDAN34S	11.0 -20.0	14.0 -21.9	80.0	20.0	38.0	41.5	1.25 1.6
NPT3/4"	RDAN34L	17.0 - 26.0	18.3 - 25.2	80.0	20.0	38.0	41.5	1.25-1.6
NPT1"	RDAN01L	22.0 -32.2	23.8 -33.0	84.0	25.0	46.0	50.5	1.6 2.0
NPT1 1/4"	RDAN114L	29.5 - 38.0	28.0 - 40.0	85.0	27.0	55.0	60.0	1.6-2.0
NPT1 1/2"	RDAN112S	35.5 -44.0	35.2 -46.0	85.0	27.0	60.0	66.0	2.0-2.5
NPT1 1/2"	RDAN112L	40.0 - 50.0	40.5 - 52.5	90.0	27.0	70.0	75.0	2.0 2.5
NPT2"	RDAN02S	47.5 -55.8	45.7 -59.0	90.0	27.0	75.0	82.0	2.0-2.5
NPT2"	RDAN02L	53.0 - 62.0	54.7 - 65.0	95.0	27.0	80.0	86.0	2.0-2.5
NPT2 1/2"	RDAN212S	59.0 -64.0	59.0 -71.5	100.0	35.0	90.0	98.0	2.0-2.5
NPT2 1/2"	RDAN212L	66.5 - 78.5	66.8 - 78.0	108.0	35.0	98.0	106.0	2.5-3.0
NPT3"	RDAN03L	76.0 -90.0	76.2 -90.0	140.0	35.0	114.0	125.0	3.15-4.0
NPT4"	RDAN04L	76.0 - 90.0	86.5 - 101.0	140.0	24.0	123.0	135.0	3.15-4.0

EARTH TAG

Material		Gland Type	Code Example
BR	NI	RSU RSA RDA	IEM20BR
Brass	Nickel Plated Brass		

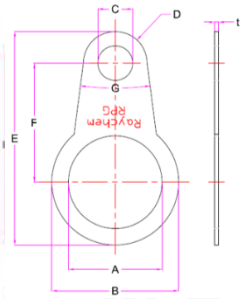
STRAIGHT TYPE

Type	Size	Code	Dimensions (Dig.- 8)						
			A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	t (mm)
METRIC	M16	IEM16BR	16.20	25.0	6.20	12.50	48.75	30.0	1.50
	M40	IEM40BR	40.20	54.0	14.20	26.0	86.50	46.50	1.50
	M50	IEM50BR	50.20	67.0	14.20	29.0	111.50	63.50	1.50
	M63	IEM63BR	63.20	77.0	14.20	29.0	125.50	72.50	1.50
	M75	IEM75BR	75.20	89.0	14.20	32.0	137.50	77.0	1.50
	M90	IEM90BR	90.20	109.50	14.20	35.50	167.0	94.50	1.50
NPT	NPT 1-1/4"	IEN114BR	43.0	54.0	14.2	26.0	86.5	46.5	1.5
	NPT 1-1/2"	IEN112BR	49.0	67.0	14.2	29.0	111.5	63.5	1.5
	NPT 2"	IEN2BR	61.0	77.0	14.2	29.0	125.5	72.5	1.5
	NPT 2-1/2"	IEN212BR	73.5	89.0	14.2	32.0	137.5	77.0	1.5
	NPT 3"	IEN3BR	89.5	109.5	14.2	35.5	167.0	94.5	1.5
	NPT 3-1/2"	IEN312BR	102.0	118.0	14.2	40.0	167.0	100.0	1.5



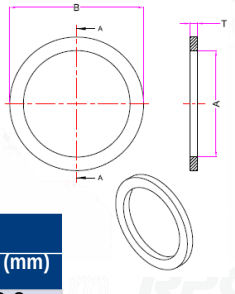
TAPERED TYPE

Type	Size	Code	Dimensions (Dig.- 8)							
			A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	t (mm)	G (mm)
METRIC	M20	IEM20BR	21.50	27.20	7.00	6.70	53.50	33.20	1.15	12.60
	M25	IEM25BR	26.70	35.10	7.00	6.30	59.40	35.70	1.50	23.90
	M32	IEM32BR	33.50	45.4	12.50	11.4	77.00	43.00	1.50	14.70
NPT	NPT 1/2"	IEN12BR	22.0	27.2	7.0	6.7	53.5	33.2	1.15	12.6
	NPT 3/4"	IEN34BR	27.0	35.1	7.0	6.3	59.4	35.7	1.5	23.9
	NPT 1"	IEN1BR	34.0	45.4	12.5	11.4	77.0	43.0	1.5	14.7



WASHER POLYAMIDE & FIBER

Material	Code Example
Polyamide 6 (PA)	IWM20PA



METRIC

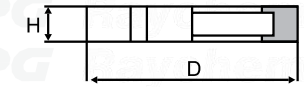
Size	Code	Dimensions		
		A (mm)	B (mm)	T (mm)
M8	IWM8PA	8.1	11.5	1.5
M12	IWM12PA	12.1	15.5	1.5
M20	IWM20PA	20.1	27.4	2.0
M25	IWM25PA	20.1	27.4	2.0
M32	IWM32PA	32.2	43.1	2.8
M40	IWM40PA	32.2	43.1	2.8
M50	IWM50PA	50.1	61.1	3.0
M63	IWM63PA	63.2	74.0	3.0
M75	IWM75PA	75.1	86.0	3.5
M90	IWM90PA	90.2	101.0	3.5

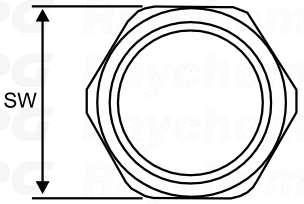
NPT

Size	Code	Dimensions		
		A (mm)	B (mm)	T (mm)
NPT 1/2"	IWN12PA	22.5	32.5	2.0
NPT 3/4"	IWN34PA	27.5	37.5	2.0
NPT 1"	IWN1PA	34.0	44.0	2.0
NPT 1 1/4"	IWN114PA	43.0	53.0	2.0
NPT 1 1/2"	IWN112PA	49.0	60.0	2.0
NPT 2"	IWN2PA	61.0	73.0	2.0
NPT 2 1/2"	IWN212PA	73.7	88.0	2.0
NPT 3"	IWN3PA	90.0	100.0	2.0
NPT 3 1/2"	IWN312PA	102.5	112.5	2.0

LOCK NUTS

Size	Material			Code Example
XXXXX	BR	NI	SS	
Metric: MXXXX	Brass	Nickel Plated Brass	Stainless Steel	ILM16S1BR



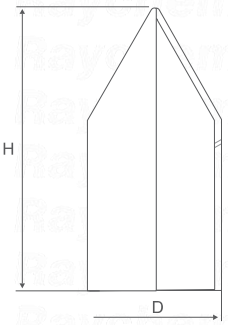


Thread Type	Metal			
	Code	Dimensions		
		H (mm)	SW (mm)	D (mm)
M16x1.5	ILM16S1BR	3.0	19.0	21.0
M20x1.5	ILM20S1BR	3.0	24.0	26.5
M25x1.5	ILM25S1BR	3.0	30.0	33.0
M32x1.5	ILM32S1BR	3.5	35.0	38.5
M40x1.5	ILM40S1BR	3.5	45.0	50.0
M50x1.5	ILM50S1BR	4.0	55.0	60.0
M63x1.5	ILM63S1BR	5.0	70.0	77.0
M75x1.5	ILM7551BR	5.0	85.0	93.0
M90x1.5	ILM90S1BR	7.0	100.0	110.0

SHROUDS

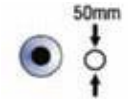
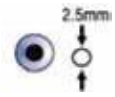
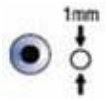
Material	PVC / LSF

Size	Material	Gland Type	Code Example
XXXXX	P/L	RSU RSA RDA	EISM20S1P
Metric: MXXXX	PVC/LSF/ LSZH		



RDA			RSA			RSU		
Code	Dimensions		Code	Dimensions		Code	Dimensions	
	D mm	H mm		D mm	H mm		D mm	H mm
EISM20S1P(3.0-8.5)	26.5	67.0	CISM20S1P(3.0-8.5)	26.5	45.0	AISM20S1P (3.0-12.0)	24.5	56.1
EISM20S2P(6.0-12.0)	26.5	68.0	CISM20S2P(6.0-12.0)	26.5	45.0	AISM20S2P (10.0-18.0)	35.5	67.5
EISM20S3P(8.5-14.5)	33.0	76.6	CISM20S3P(8.5-14.5)	33.0	48.0	AISM25S1P (10.0-18.0)	36.0	67.5
EISM25S1P(6.0-12.0)	41.5	68.0	CISM25S1P(6.0-12.0)	41.5	60.0	AISM32S1P (14.0-24.0)	44.5	72.6
EISM25S2P(8.5-16.0)	41.5	78.6	CISM25S2P(8.5-16.0)	41.5	60.0	AISM40S1P (22.0-32.0)	53.0	91.7
EISM32S1P(12.0-20.0)	50.5	81.6	CISM32S1P(12.0-20.0)	50.5	60.0	AISM50S1P (26.0-35.0)	60.0	88.0
EISM40S1P(12.0-20.0)	60.0	81.6	CISM40S1P(12.0-20.0)	60.0	66.0	AISM50S2P (35.0-44.0)	65.1	93.9
EISM50S1P(22.0-35.0)	66.0	132.6	CISM50S1P (22.0-35.0)	66.0	66.0	AISM63S1P(35.0-45.0)	72.9	95.5
EISM50S2P(27.0-41.0)	75.0	132.6	CISM50S2P(27.0-41.0)	75.0	70.0	AISM63S2P (46.0-56.0)	78.0	100.8
EISM63S1P(35.0 45.0)	82.0	148.0	CISM63S1P(35.0 45.0)	82.0	77.0	AISM75S1P (46.0 62.0)	87.0	100.8
EISM63S2P(40.0-52.0)	86.0	143.8	CISM63S2P(40.0-52.0)	86.0	72.0	AISM75S1P (46.0-62.0)	92.0	100.8
EISM75S1P(40.0-52.0)	98.0	143.8	CISM75S1P(40.0-52.0)	98.0	82.0	AISM75S1P (46.0-62.0)	118.0	100.8
EISM75S2P(40.0-52.0)	106.0	143.8	CISM75S2P(40.0-52.0)	106.0	88.0			
EISM90S1P (45.0-60.0)	125.0	182.7	CISM90S1P (45.0-60.0)	125.0	110.0			

INGRESS PROTECTIONMARIX

First Digit	Protection against Solid Foregin Objects and Access to Hazardous Parts		
	Illustration	Method	Explanation
0	—	Non-Protected	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
2		Protected against solid foreign objects of 12.5 mm diameter and greater.	Protected against access to hazardous parts with the back of a hand
2		Protected against solid foreign objects of 2.5mm diameter and greater.	Protected against access to hazardous parts with the back of a hand
4		Protected against solid foreign objects of 1.0mm diameter and greater.	Protected against access to hazardous parts with the back of a hand
5		Dust-protected	Protected against access to hazardous parts with the back of a hand
6		Dust-tight	Protected against access to hazardous parts with the back of a hand

Second Digit	Protection against Liquids	
	Illustration	Method
0	—	Non-Protected
1		Protected against drop of water falling vertically
2		Protected against drop of water falling at up to 15 from the vertically
2		Protected against spraying water at upto 60 from the vertically
4		Protected against splashing water from all direction
5		Protected against jet of water from all direction
6		Protected against jet of water of similar force to heavy seas
7		Protected against the effects of immersion
8		Protected against protonged effects of immersion under pressure to a specified dept

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