Prysmian Group

BICON

Bicon® Cable Glands

PRYSMIAN

Draka

Linking the future

As the worldwide leader in the cable industry, Prysmian Group believes in the effective, efficient and sustainable supply of energy and information as a primary driver in the development of communities.

With this in mind, we provide major global organisations in many industries with best-in-class cable and accessory solutions, based on state-of-the-art technology. Through two renowned commercial brands - Prysmian and Draka – based in almost 50 countries, we're constantly close to our customers, enabling them to further develop the world's energy and telecoms infrastructures, and achieve sustainable, profitable growth.

In our energy business, we design, produce, distribute and install cables and systems for the transmission and distribution of power at low, medium, high and extra high voltage.

In telecoms, the Group is a leading manufacturer of all types of copper and fibre cables, systems and accessories - covering voice, video and data transmission.

Drawing on over 130 years' experience and continuously investing in R&D, we apply excellence, understanding and integrity to everything we do, meeting and exceeding the precise needs of our customers across all continents, at the same time shaping the evolution of our industry.

What links the oil and gas industry from end to end?

Cable solutions to support the sector around the world

In applications ranging from drilling, extraction and storage equipment to platform and processing facilities operation, Prysmian's state-of-the-art cable systems support many major customers in the oil, gas and petrochemical industry, along with related businesses.

Whether they're deployed in Brazil, the Gulf of Mexico, the North Sea or South-East Asia, our cable solutions are proving their value in harsh off shore and onshore environments; helping customers minimize environmental impact and achieve sustainable, profi table growth.

Prysmian Group's dedicated Components facility based in Wrexham, Wales manufactures and supplies the market with products which are widely used in industrial, commercial and domestic power distribution systems. In addition it offers products for more specialist applications such as Utilities, Railways, Oil, Gas and Petrochemical, Hazardous Areas, Wind and Solar Energy. Today's BICON® product ranges represent over 100 years of cable accessory development and quality engineering building on the pedigree of our previous company names - going back to BICC. Of course Prysmian Group's Components products are the perfect installation accessory for the Company's vast range of quality, approved cables.

Prysmian Group's comprehensive component product range includes:

- BICON® Cable Glands
- BICON® Cable Cleats
- BICAST® Joints & Terminations
- BICON® Connectors and Tooling
- Flexo® Modular Power Systems
- Flexo® Rail products
- JEM™ Resin
- Connecta System®

From its UK base, Prysmian Group's Components business is able to efficiently service the needs of its UK and overseas customers and offers a high level of pre-sales and post-sales customer service.

For further information please contact:

Sales Hotline: **0845 767 8345**

International Sales Office: **+44 2380 295481**

www.biconcomponents.co.uk

BICON

Introduction to Bicon® Cable Glands

Prysmian Group's Components business unit, based in Wrexham, is the UK's most experienced manufacturer of Cable Glands. Bicon® cable glands are supplied for use in both industrial and hazardous locations. Through many years of industry experience and working closely with our customers, Prysmian Group is able to offer glands to terminate all cable types on the market. As the world's number one manufacturer of cables, Prysmian Groups Bicon® cable glands are designed and manufactured utilising all the knowledge of the critical requirements to safely terminate cables in all types of installations.

Bicon® Cable Glands are mechanical cable entry devices that attach and secure the end of a cable to an enclosure or directly into equipment providing for mechanical support, earth continuity and protection against the ingress of dust and moisture. Additionally, in hazardous areas they prevent the migration of gases and control and contain any potential explosions.

The Bicon® ranges of glands have been designed and tested with The Prysmian Group cable products. They are the recommended and preferred method of installation for all Prysmian and Draka cables.

When installing fire resistant and Low Smoke Zero Halogen (LSOH) cables it is important that the accessories used meet the same performance requirements as the cable. Thus, the accessory does not impact on the system performance as a whole in the event of a fire. As the world market leader in both of these types of cables it is no surprise that the Prysmian Group is able to offer specific glanding solutions. Look out for the FP, Afumex, FT and Saffire logos in the catalogue which highlight these.

Bicon® LSOH industrial gland kits have been granted LUL approvals. These products are highlighted in the catalogue. Please note the relevant LUL APR Product ID numbers on the relevant pages.

Bicon® cable glands are manufactured in either aluminium, brass or nylon as standard. In the event that the installation requires electroless nickel plated brass these can also be supplied.

Bicon® glands have been used on a vast number of major electrical engineering projects including: Terminal 5 Heathrow, oil platforms in the North Sea, and power stations in the UK and Europe.

Contents

LSOH or LSF materials – Making the right choice!

Low Smoke Zero Halogen materials known as LSOH, should be used in any environment where public safety is a consideration. These include locations such as offices, schools, stations or underground systems etc.

Safety considerations have resulted in materials being developed and specified that, in a fire, will emit less of the harmful gases particularly smoke and halogens.

The materials that do not emit any significant halogen gas and have reduced smoke emission properties are termed LSOH (Low Smoke Zero Halogen) - these materials must emit less than 0.5% Hydrogen Chloride (HCl).

High levels of HCl has a damaging effect on the human respiratory system when inhaled, as well as being damaging to electronic circuits or machinery.

Some materials are misleadingly labelled LSF (low smoke and fume) – this does not indicate that they emit low HCl – for example, a modified PVC could give off over 15% HCl and still be sold as LSF.

However, Halogens are not alone in their tendency to produce toxic gasses during combustion. There are many polymeric materials which, although halogen free, will also produce toxic by-products in the event of a fire.

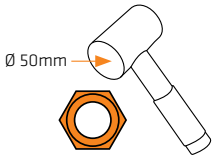
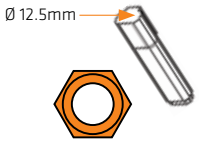
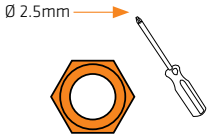
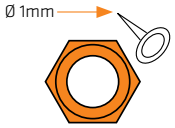
London Underground Specification 1-085 (A3) states that combustible materials must not contain halogens, nitrogen or sulphur. Materials that do contain these elements must undergo additional testing to ensure compliance with the toxic emission potential requirements of BS6853.

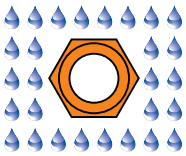
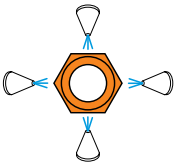
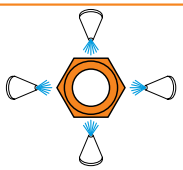
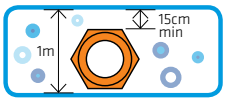
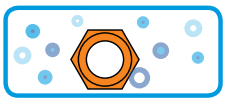
Nylon, for example, contains nitrogen which, during a fire, can produce toxic gasses such as ammonia, mixed oxides of nitrogen and small amounts of hydrogen cyanide.

The materials used in Bicon® LSOH accessories are not only halogen free but do not contain any other elements likely to result in toxic gas emission.

As a result Bicon® gland kits have been approved by LUL - look out for the LUL APR product number.

Introduction to Ingress Protection Index (EN 60529)

1st No.	Protection against solids
0	No-protection
1	 Protected against solid bodies Larger than 50mm (e.g. Accidental contact with a hand)
2	 Protected against solid bodies Larger than 12mm (e.g. A finger of a hand)
3	 Protected against solid bodies larger than 2.5mm (e.g. tools and wires)
4	 Protected against solid bodies larger than 1mm (e.g. fine tools and small wires)
5	 protected against dust (no harmful deposites)
6	 Completely protected against dust

2nd No.	Protection against liquids
0	No-protection
1	 Protection against vertically falling drops of water (Condensation)
2	 Protected against drops of water falling at up to 15° from vertical
3	 Protected against drops of water up to 60° from vertical
4	 Protected against projections of water from all directions
5	 Protected against jets of water from all directions
6	 Protected against powerd jets of water from all directions
7	 Protection against the effects of immersion
8	 Protection against the effects of submersion

Introduction to Deluge Testing DTS01

This test was developed by Shell & ERA Technology in 1991 to address the needs of the offshore sector where emergency deluge systems are commonly installed.

The deluge test requires that glands are 1st pre-conditioned by exposure to vibration and thermal ageing at high humidity levels. The test then simulates the offshore deluge systems by using a specially designed deluge chamber with nozzles firing high pressure salt water at the glands for 3 hours.

Industrial Glands Selector

Correctly selected and installed Cable Glands will attach and secure the end of a cable to an enclosure/ equipment providing for:

- Mechanical support
- Earth continuity
- Protection against ingress of dust
- Protection against ingress of moisture

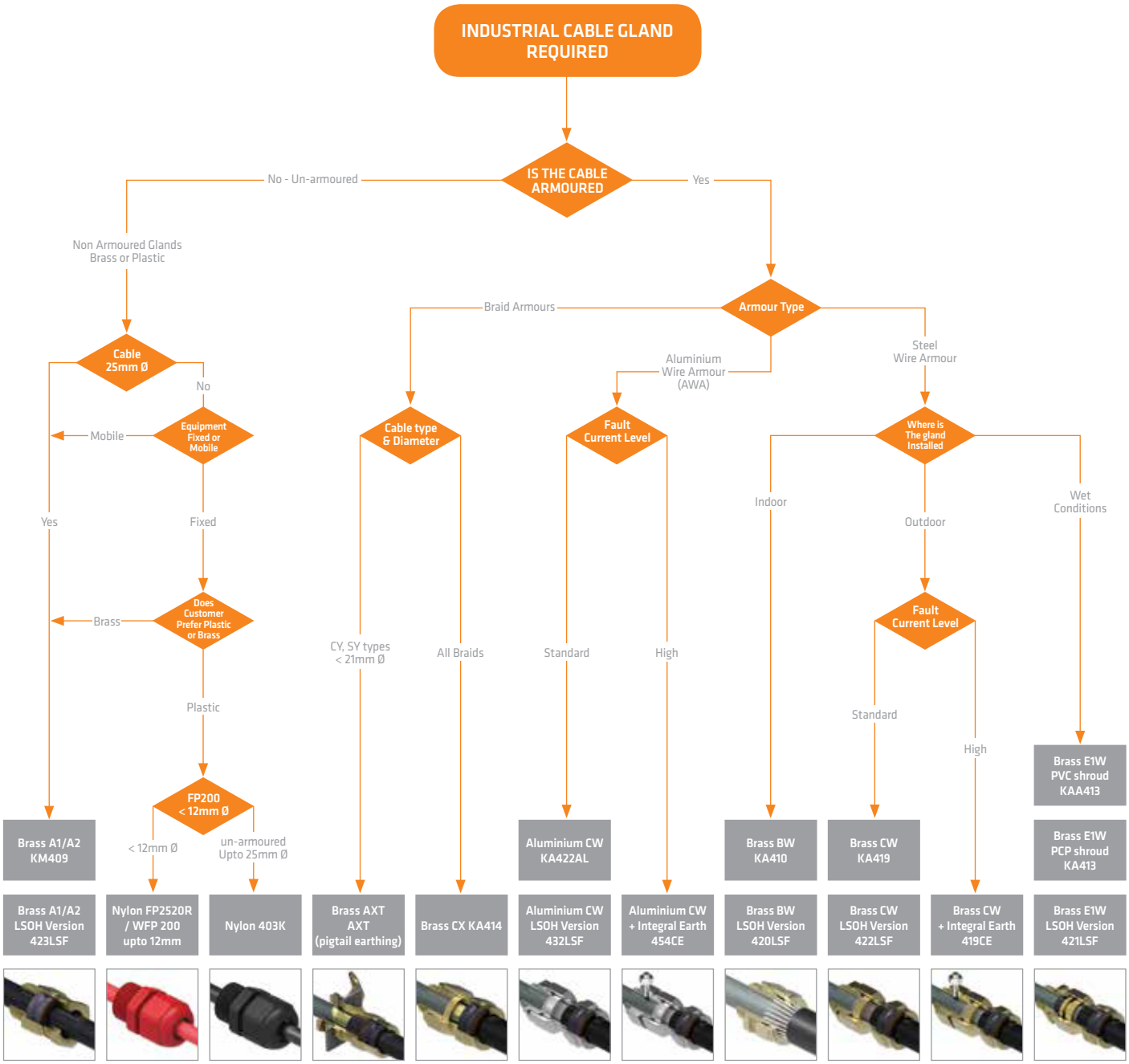
See Selection chart below for Industrial gland Selection

Plus in Hazardous areas

- Prevents migration of gases
- Controls/contains explosions

Go to page 36 for Hazardous gland selection

INDUSTRIAL GLAND SELECTION CHART



INDUSTRIAL GLANDS CONTENTS

BW Gland Kit
Indoor Cable Gland (KA410 Series)

SUITABLE FOR USE WITH ALL STEEL WIRE ARMOURED CABLES

Features and benefits:

- Indoor type for SWA cable.
- Brass indoor gland and accessories
- For galvanized-steel single-wire armour plastic or rubber sheathed cables
- For use in dry, dust free situations
- Provides mechanical cable retention and electrical continuity via armour locking mechanism

Kit comprises:

BW Gland
Brass Earth Tag
Brass Locknut
PVC Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Steel Wire Armoured Cables inc: BS 5467, BS 6622, BS 5308

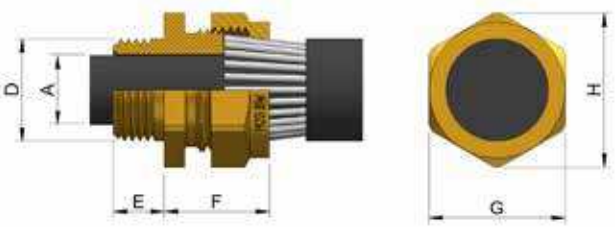
CuZn39Pb3 brass alloy used for guaranteed strength and performance

Complies with BS 6121-1: 2005

Service temperature range -20°C to +90°C

Specifications

Gland Kit Reference			Cable Dimensions mm		Gland Dimensions mm				
Design Reference	Size	Qty per Kit	Under Armour Ø (A) Max	Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon A/F (G)	Hexagon A/C (H)
KA410-52	20S	2	11.6	0.9	M20×1.5	10	24	22	24.9
KA410-53	20	2	13.9	0.9/1.25	M20×1.5	10	25	27	30.5
KA410-55	25	2	19.9	1.25/1.6	M25×1.5	10	26	32.9	36.8
KA410-56	32	1	26.2	1.6/2.0	M32×1.5	10	28	42.4	47.8
KA410-57	40	1	32.1	1.6/2.0	M40×1.5	15	25	50	57
KA410-59	50	1	44.0	2.0/2.5	M50×1.5	15	36	70.1	77.2
KA410-61	63	1	55.9	2.5	M63×1.5	15	30	80	87.4
KA410-62	75S	1	61.9	2.5	M75×1.5	15	40	85	95
KA410-63	75	1	67.9	2.5	M75×1.5	15	40	98.8	109.2
KA410-64	85	1	74.5	3.15	M85x2.0	20	43	115	126



BW LSOH Gland Kit
Indoor Cable Gland (420LSF Series)

SUITABLE FOR USE WITH ALL LSOH STEEL WIRE ARMOURED CABLES

Features and benefits:

- Indoor type for LSOH SWA cable
- Brass indoor gland and LSOH accessories
- For galvanized-steel single-wire armour plastic or rubber LSOH sheathed cables
- For use in dry, dust free situations
- Provides mechanical cable retention and electrical continuity via armour locking mechanism

Kit comprises:

BW Gland
Brass Earth Tag
Brass Locknut
LSOH Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Steel Wire Armoured Cables inc: BS 6724

CuZn39Pb3 brass alloy used for guaranteed strength and performance

Complies with BS 6121-1: 2005

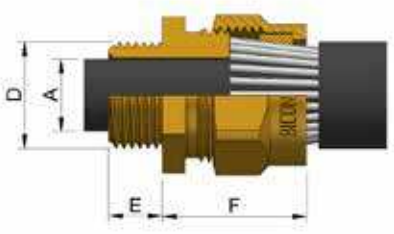
Service temperature range -20°C to +90°C

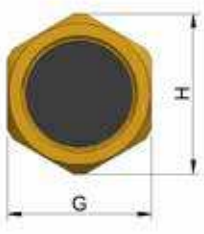
Complies with LU Standard 1-085 for installation in all sub-surface locations

LUL APR Product ID 1968

Specifications

Gland Kit Reference			Cable Dimensions mm		Gland Dimensions mm				
Design Reference	Size	Qty per Kit	Under Armour Ø (A) Max	Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon A/F (G)	Hexagon A/C (H)
420LSF-52	20S	2	11.6	0.9	M20×1.5	10	24	22	24.9
420LSF-53	20	2	13.9	0.9/1.25	M20×1.5	10	25	27	30.5
420LSF-55	25	2	19.9	1.25/1.6	M25×1.5	10	26	32.9	36.8
420LSF-56	32	1	26.2	1.6/2.0	M32×1.5	10	28	42.4	47.8
420LSF-57	40	1	32.1	1.6/2.0	M40×1.5	15	25	50	57
420LSF-59	50	1	44.0	2.0/2.5	M50×1.5	15	36	70.1	77.2
420LSF-61	63	1	55.9	2.5	M63×1.5	15	30	80	87.4
420LSF-62	75S	1	61.9	2.5	M75×1.5	15	40	85	95
420LSF-63	75	1	67.9	2.5	M75×1.5	15	40	98.8	109.2





BWL Gland Kit
Indoor Cable Gland (KJ417 Series)

SUITABLE FOR USE WITH ALL STEEL WIRE ARMOURED CABLES

Features and benefits:

- Indoor type for SWA cable.
- Three Part Gland with separate locking ring
- Brass indoor gland and accessories
- For galvanized-steel single-wire armour plastic or rubber sheathed cables
- For use in dry, dust free situations
- Provides mechanical cable retention and electrical continuity via armour locking mechanism

Kit comprises:

BW Gland
Brass Earth Tag
Brass Locknut
PVC Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Steel Wire Armoured Cables inc : BS 5467, BS 6622, BS 5308

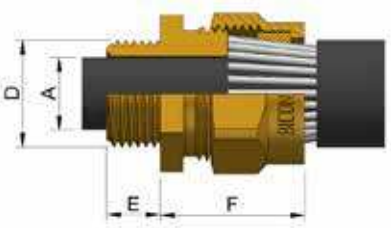
CuZn39Pb3 brass alloy used for guaranteed strength and performance

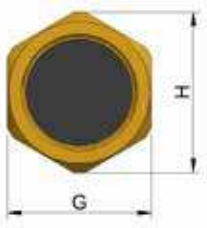
Complies with BS 6121-1: 2005

Service temperature range -20°C to +90°C

Specifications

Gland Kit Reference			Cable Dimensions mm		Gland Dimensions mm				
Design Reference	Size	Qty per Kit	Under Armour Ø (A) Max	Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon A/F (G)	Hexagon A/C (H)
KJ417-51	16	2	8.6	0.9	M16×1.5	10	30	23.4	26.7
KJ417-52	20S	2	11.6	0.9	M20×1.5	10	32	25.7	29.2
KJ417-53	20	2	13.9	0.9/1.25	M20×1.5	10	32	27.0	30.5
KJ417-55	25	2	19.9	1.25/1.6	M25×1.5	10	33	36.0	40.0
KJ417-56	32	1	26.2	1.6/2.0	M32×1.5	10	35	42.4	48.0
KJ417-57	40	1	32.1	1.6/2.0	M40×1.5	15	36	56.4	61.5
KJ417-58	50s	1	38.1	2.0/2.5	M50×1.5	15	40	65.0	71.4
KJ417-59	50	1	44.0	2.0/2.5	M50×1.5	15	41	70.0	77.2
KJ417-60	63s	1	50.0	2.5	M63×1.5	15	39	79.5	87.4
KJ417-61	63	1	55.9	2.5	M63×1.5	15	41	79.5	87.4
KJ417-62	75S	1	61.9	2.5	M75×1.5	15	47	89.7	99.1
KJ417-63	75	1	67.9	2.5	M75×1.5	15	47	98.6	109.5
KJ417-64	85	1	75.0	3.15	M85x2.0	20	55	115	126
KJ417-65	90	1	82.5	3.15	M90x2.0	20	60.5	115	126





Nylon Cable Gland
Cable Gland (403K Series)

SUITABLE FOR USE WITH CIRCULAR UN-ARMOURED CABLES

Features and benefits:

- Suitable for indoor and outdoor applications.
- Suitable for use with all unarmoured circular cables.
- "Cable Grab Claw," design - to grip cable firmly
- Available in four colours: black, red, white and grey.
- Supplied with locknut & entry thread seal

Kit comprises:

Nylon Gland
Rubber entry thread seal
Nylon lock nut

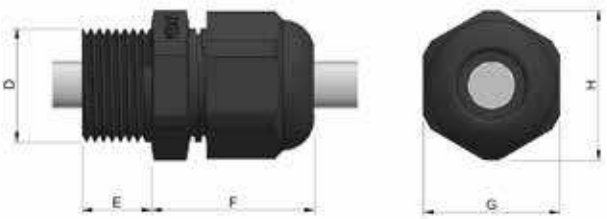
Technical Information:

Material: UL approved nylon 66 94V-2
IP 68 rated

Specifications

Gland Kit Reference			Cable Dimensions mm		Gland Dimensions mm				
Design Reference	Size	Qty per Kit	Cable Diameter Ø mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
			Min	Max				A/F (G)	A/C (H)
403K*51	16	10	5	10	M16x1.5	15	27	22	24.5
403K*53	20	10	10	14	M20x1.5	15	33	27	29
403K*55	25	10	13	18	M25x1.5	15	36	33	36
403K*56	32	10	18	25	M32x1.5	15	40	42	46.5

Replace * to specify colour: B=Black , W=White , R=Red , G=Grey



Nylon Cable Gland
Cable Gland (FP250)

SUITABLE FOR USE WITH FIRE ALARM CABLES

Features and benefits:

- Suitable for indoor and outdoor applications.
- Suitable for use with all Fire Alarm Cables
- "Cable Grab Claw," design - to grip cable firmly
- Compressible entry thread seals moulded into gland body
- Available in two colours: red and white
- Supplied complete with locknut

Kit comprises:

Nylon Gland
Nylon lock nut

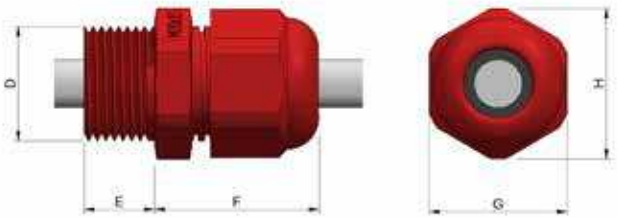
Technical Information:

Material: Flame Retardent Nylon
IP 68 rated
Complies with BS EN 50262

Specifications

Gland Kit Reference			Cable Dimensions mm		Gland Dimensions mm				
Design Reference	Size	Qty per Kit	Cable Diameter Ø mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
			Min	Max				A/F (G)	A/C (H)
403P*52	20	100	6	12	M20x1.5	12	30	24	26.5

Replace * to specify colour: R=Red , W=White



A1/A2 Gland Kit
Indoor / Outdoor Cable Gland (KM409 Series)

SUITABLE FOR USE WITH CIRCULAR UN-ARMOURED CABLES

Features and benefits:

- Indoor & outdoor type for un-armoured cable.
- Brass indoor and outdoor gland and accessories
- For circular, unarmoured plastic or rubber sheathed cables
- Suitable for most climatic conditions, weatherproof and waterproof

Kit comprises:

A1/A2 Gland
Brass Locknut
PVC Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Un-armoured Cables

CuZn39Pb3 brass alloy used for guaranteed strength and performance

Complies with BS EN 50262 & BS 6121-1: 1989

Service temperature range -20°C to +90°C

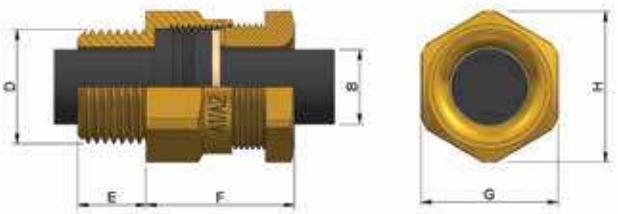
Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Metric & NPT Nickel Plated versions available

Specifications

Gland Kit Reference					Cable Dimensions mm		Gland Dimensions mm				
Design Reference		Size		Qty per Kit	Cable Diameter Ø (B) mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated	Metric	NPT		Min	Max				A/F (G)	A/C (H)
KM409-51	KM409-51V	16		2	3.5	8.5	M16×1.5	10.0	20	19	21.5
KM409-71	KM409-71V	20SS		2	3.5	8.5	M20×1.5	10.0	20	22	24.9
KM409-52	KM409-52V	20S		2	8.0	11.5	M20×1.5	10.0	22	22	24.9
KM409-53	KM409-53V	20		2	11.0	13.5	M20×1.5	10.0	22	24	27
KM409-55	KM409-55V	25		2	13.0	19.5	M25×1.5	10.0	25	30.5	34
KM409-56	KM409-56V	32		1	19.0	25.5	M32×1.5	10.0	25	42.4	48
KM409-57	KM409-57V	40		1	25.0	32.0	M40×1.5	15.0	33	47.2	53.6
KM409-58	KM409-58V	50S		1	31.5	37.0	M50×1.5	15.0	30	55	60
KM409-59	KM409-59V	50		1	36.5	43.0	M50×1.5	15.0	30	56.4	61.5
KM409-60	KM409-60V	63S		1	42.5	50.0	M63×1.5	15.0	34	70.1	77.2
KM409-61	KM409-61V	63		1	49.5	55.0	M63×1.5	15.0	32	75	83
KM409-62	KM409-62V	75S		1	54.5	61.0	M75×1.5	15.0	32	80	87.4
KM409-63	KM409-63V	75		1	60.5	67.0	M75×1.5	15.0	40	85	95
KP409-65*	KM409-65V	90		1	65.0	78.0	M90×2.0	20.0	45	106	117
KP409-66*	KM409-66V	100		1	75.0	88.0	M100×2.0	20.0	45	115	126
KP409-67*	KM409-67V	110		1	79.0	99.0	M110×2.0	20.0	55	Ø 132.0	
	409NP-04V		½" - 20S	1	8.0	11.5	½" NPT	13.6	22	24.0	26.8
	409NP-08V		¾" - 20	1	11.0	13.5	¾" NPT	13.9	22	30.5	34.0
	409NP-14V		1" - 25	1	13.0	19.5	1" NPT	17.5	25	37.6	42.2
	409NP-20V		1 ¼" - 32	1	19.0	25.5	1 ¼" NPT	18.0	25	46	51
	409NP-27V		1 ½" - 40	1	25.0	32.0	1 ½" NPT	18.5	33	56.4	61.5
	409NP-31V		2" - 50S	1	31.5	37.0	2" NPT	19.5	30	65.5	72.1
	409NP-32V		2" - 50	1	36.5	43.0	2" NPT	19.5	30	65.5	72.1
	409NP-37V		2 ½" - 63S	1	42.5	50.0	2 ½" NPT	32.5	34	80	87.4
	409NP-44V		3" - 75S	1	54.5	61.0	3" NPT	33.5	32	98.8	109.2

*KP Kits contain only Gland & Locknut **NPT threaded glands are supplied as glands only.



A1/A2 LSOH Gland Kit
Indoor / Outdoor Cable Gland (423LSF Series)

SUITABLE FOR USE WITH CIRCULAR LSOH UN-ARMOURED CABLES

Features and benefits:

- Indoor & outdoor type for LSOH un-armoured cable.
- Brass indoor and outdoor gland and accessories
- For circular, unarmoured plastic or rubber LSOH sheathed cables
- Suitable for most climatic conditions, weatherproof and waterproof

Kit comprises:

A1/A2 Gland
Brass Locknut
LSOH Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all LSOH un-armoured Cables

CuZn39Pb3 brass alloy used for guaranteed strength and performance

Complies with BS EN 50262 & BS 6121-1: 1989

Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Service temperature range -20°C to +90°C

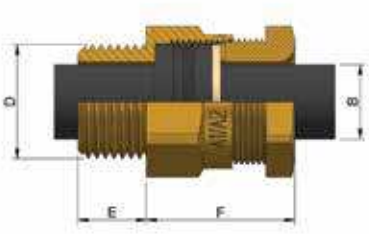
Complies with LU Standard 1-085 for installation in all sub-surface locations

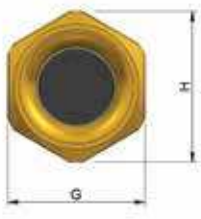
LUL APR Product ID 1971

Nickel Plated and standard versions available

Specifications

Gland Kit Reference				Cable Dimensions mm		Gland Dimensions mm				
Design Reference		Size	Qty per Kit	Cable Diameter Ø (B) mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated			Min	Max				A/F (G)	A/C (H)
423LSF-71	423LSF-71V	20SS	2	3.5	8.5	M20×1.5	10	20	22	24.9
423LSF-52	423LSF-52V	20S	2	8.0	11.5	M20×1.5	10	22	22	24.9
423LSF-53	423LSF-53V	20	2	11.0	13.5	M20×1.5	10	22	24	27
423LSF-55	423LSF-55V	25	2	13.0	19.5	M25×1.5	10	25	30.5	34
423LSF-56	423LSF-56V	32	1	19.0	25.5	M32×1.5	10	25	42.4	48
423LSF-57	423LSF-57V	40	1	25.0	32.0	M40×1.5	15	33	47.2	53.6
423LSF-58	423LSF-58V	50S	1	31.5	37.0	M50×1.5	15	30	55	60
423LSF-59	423LSF-59V	50	1	36.5	43.0	M50×1.5	15	30	56.4	61.5
423LSF-60	423LSF-60V	63S	1	42.5	50.0	M63×1.5	15	34	70.1	77.2
423LSF-61	423LSF-61V	63	1	49.5	55.0	M63×1.5	15	32	75	83
423LSF-62	423LSF-62V	75S	1	54.5	61.0	M75×1.5	15	32	80	87.4
423LSF-63	423LSF-63V	75	1	60.5	67.0	M75×1.5	15	40	85	95





AXT Gland Kit
Indoor / Outdoor Cable Gland (423AX Series)

SUITABLE FOR USE WITH FLEXIBLE WIRE BRAIDED CABLES (E.G. CY & SY TYPES)

Features and benefits:

- Indoor & outdoor type for flexible wire braided cable.
- Brass indoor and outdoor gland and accessories
- For circular unarmoured, or wire braid or screened, plastic or rubber sheathed cables
- Superior retention capability
- Suitable for most climatic conditions, weatherproof and waterproof

Kit comprises:

AXT Gland
2 x Flat Brass Washers
Brass Earth Tag
Steel Locknut
PVC Shroud
(2 per kit)

Technical Information:

Suitable for use with CY & SY type cables

CuZn39Pb3 brass alloy used for guaranteed strength and performance

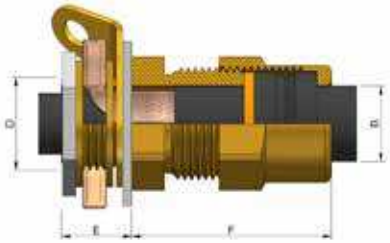
Complies with BS EN 50262

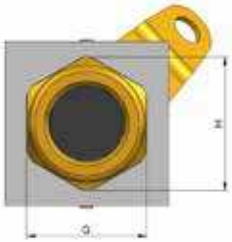
Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Service temperature range -50°C to +200°C

Specifications

Gland Kit Reference			Cable Dimensions mm		Gland Dimensions mm				
Design Reference	Size	Qty per Kit	Cable Diameter Ø (B) mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
			Min	Max				A/F (G)	A/C (H)
423AX-52	20S	2	5.5	11.5	M20×1.5	15	34	22	24.9
423AX-53	20	2	8.0	16.0	M20×1.5	15	44	25.7	28.7
423AX-55	25	2	11.5	21.0	M25×1.5	15	46	33.0	36.9





CW Gland Kit

Indoor / Outdoor Cable Gland (KA419 Series)

SUITABLE FOR USE WITH ALL STEEL WIRE ARMOURED CABLES

Features and benefits:

- Indoor & outdoor type for SWA cable.
- Brass indoor & outdoor gland and accessories
- For galvanized-steel single-wire armour plastic or rubber sheathed cables
- Suitable for most climatic conditions, weatherproof and waterproof
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity

Kit comprises:

CW Gland
Brass Earth Tag
Brass Locknut
PVC Shroud
(2 per kit up to and including 25mm size)

Technical Information:

CuZn39Pb3 brass alloy used for guaranteed strength and performance

Complies with BS EN 50262 & BS 6121-1: 1989

Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Service temperature range -20°C to +90°C

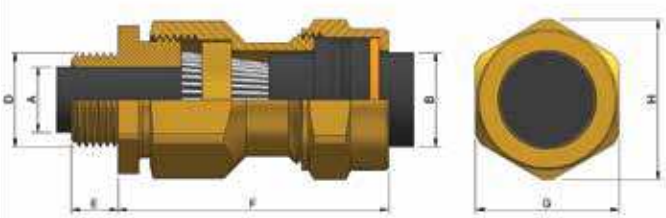
Metric & NPT versions available

Specifications

Gland Kit Reference					Cable Dimensions mm				Gland Dimensions mm				
Design Reference		Size		Qty per Kit	Under Armour Max Ø (A)	Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated	Metric	NPT			Min	Max					A/F (G)	A/C (H)
KA419-51	KA419-51V	16		2	8.6	8.0	13.2	0.9	M16×1.5	10	44	20.8	23.8
KA419-71	KA419-71V	20SS		2	8.6	8.0	13.2	0.9	M20×1.5	10	44	23.4	26.7
KA419-52	KA419-52V	20S		2	11.6	8.0	15.8	0.9	M20×1.5	10	46	25.7	29.2
KA419-53	KA419-53V	20		2	13.9	11.7	20.8	0.9/1.25	M20×1.5	10	46	30.5	34
KA419-55	KA419-55V	25		2	19.9	17.0	27.2	1.25/1.6	M25×1.5	10	51	37.6	42.2
KA419-56	KA419-56V	32		1	26.2	23.5	33.5	1.6/2.0	M32×1.5	10	56	47.3	53.6
KA419-57	KA419-57V	40		1	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	59	56.4	61.5
KA419-58	KA419-58V	50S		1	38.1	38.0	46.2	2.0/2.5	M50×1.5	15	64	65.5	72.1
KA419-59	KA419-59V	50		1	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	64	70.1	77.2
KA419-61	KA419-61V	63		1	55.9	51.3	65.3	2.5	M63×1.5	15	67	80	87.4
KA419-63	KA419-63V	75		1	67.9	62.5	78.0	2.5	M75×1.5	15	76	98.8	109.2
KA419-64	KA419-64V	85		1	74	68	88	3.15	M85×2.0	20	110	115	126
KA419-65	KA419-65V	90		1	79	79	90	3.15	M90×2.0	20	136	Ø 114	
KA419-66	KA419-66V	100		1	89	89	99	3.15	M100×2.0	20	136	Ø 132.5	
KA419-67	KA419-67V	110		1	99.5	99.5	112.5	3.15	M110×2.0	20	136	Ø 138.5	
	419NP-10V		1" - 20S	1	11.6	8.0	15.8	1.25	1" NPT	17.5	46	36.0	40.0
	419NP-08V		¾" - 20	1	13.9	11.7	20.8	0.9/1.25	¾" NPT	14.0	46	30.5	34
	419NP-12V		1" - 25	1	19.9	17.0	27.2	1.25/1.6	1" NPT	17.5	51	37.6	42.2
	419NP-16V		1 ¼" - 32	1	26.2	23.5	33.5	1.6/2.0	1 ¼" NPT	18	56	47.3	53.6
	419NP-25V		2 ½" - 50	1	44.0	39.5	52.6	2.0/2.5	2 ½" NPT	29	64	80	87.4
	419NP-26V		2 ½" - 63	1	55.9	51.3	65.3	2.5	2 ½" NPT	29	67	80	87.4

*NPT threaded glands are supplied as glands only.

**Other NPT sizes available upon request.



CE

CW-B Gland Kit (Long entry thread) Indoor / Outdoor Cable Gland (KA419-B Series)

SUITABLE FOR USE WITH ALL STEEL WIRE ARMOURED CABLES

Features and benefits:

- Indoor & outdoor type for SWA cable.
- 15mm Entry threads to facilitate extra seals / Lock washers
- Brass indoor & outdoor gland and accessories
- For galvanized-steel single-wire armour plastic or rubber sheathed cables
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity
- Suitable for most climatic conditions, weatherproof and waterproof

Kit comprises:

CW Gland
Brass Earth Tag
Brass Locknut
PVC Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Steel Wire Armoured Cables inc: BS 5467, BS 6622, BS 5308

CuZn39Pb3 brass alloy used for guaranteed strength and performance

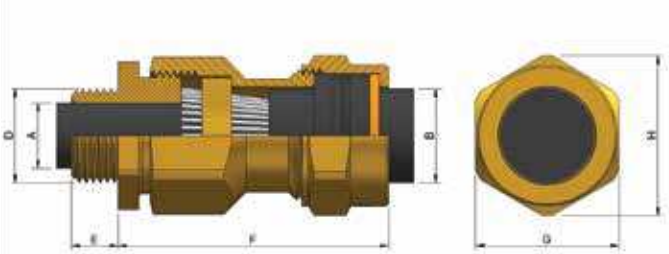
Complies with BS EN 50262 & BS 6121-1: 1989

Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Service temperature range -20°C to +90°C

Specifications

Gland Kit Reference			Cable Dimensions mm			Gland Dimensions mm					
Design Reference	Size	Qty per Kit	Under Armour Max Ø (A)	Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
				Min	Max					A/F (G)	A/C (H)
KA419-B81	16	2	8.6	8.0	13.2	0.9	M16×1.5	15	44	20.8	23.8
KA419-B91	20SS	2	8.6	8.0	13.2	0.9	M20×1.5	15	44	23.4	26.7
KA419-B82	20S	2	11.6	8.0	15.8	0.9	M20×1.5	15	46	25.7	29.2
KA419-B83	20	2	13.9	11.7	20.8	0.9/1.25	M20×1.5	15	46	30.5	34
KA419-B85	25	2	19.9	17.0	27.2	1.25/1.6	M25×1.5	15	51	37.6	42.2
KA419-B86	32	1	26.2	23.5	33.5	1.6/2.0	M32×1.5	15	56	47.3	53.6



CW LSOH Gland Kit

Indoor / Outdoor Cable Gland (422LSF Series)

SUITABLE FOR USE WITH ALL LSOH STEEL WIRE ARMOURED CABLES

Features and benefits:

- Indoor & outdoor type for LSOH SWA cable.
- Brass indoor & outdoor gland and LSOH accessories
- For galvanized-steel single-wire armour LSOH plastic or rubber sheathed cables
- Suitable for most climatic conditions, weatherproof and waterproof
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity

Kit comprises:

CW Gland
Brass Earth Tag
Brass Locknut
LSOH Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Steel Wire Armoured Cables inc: BS 6724, BS 8519, BS 7846, BS 6387, BS 7835

CuZn39Pb3 brass alloy used for guaranteed strength and performance

Complies with BS EN 50262 & BS 6121-1: 1989

Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Service temperature range -20°C to +90°C

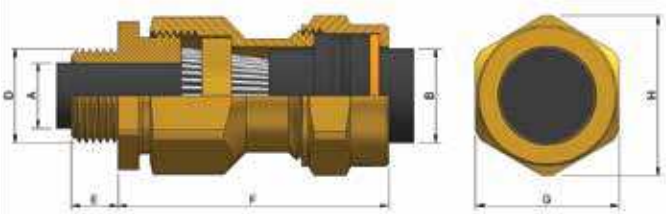
Complies with LU Standard 1-085 for installation in all sub-surface locations

LUL APR Product ID 1969

Nickel Plated and standard versions available

Specifications

Gland Kit Reference				Cable Dimensions mm				Gland Dimensions mm				
Design Reference		Size	Qty per Kit	Under Armour Max Ø (A)	Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated				Min	Max					A/F (G)	A/C (H)
422LSF-51	422LSF-51V	16	2	8.6	8.0	13.2	0.9	M16×1.5	10	44	20.8	23.8
422LSF-71	422LSF-71 V	20SS	2	8.6	8.0	13.2	0.9	M20×1.5	10	44	23.4	26.7
422LSF-52	422LSF-52 V	20S	2	11.6	8.0	15.8	0.9	M20×1.5	10	46	25.7	29.2
422LSF-53	422LSF-53 V	20	2	13.9	11.7	20.8	0.9/1.25	M20×1.5	10	46	30.5	34
422LSF-55	422LSF-55 V	25	2	19.9	17.0	27.2	1.25/1.6	M25×1.5	10	51	37.6	42.2
422LSF-56	422LSF-56 V	32	1	26.2	23.5	33.5	1.6/2.0	M32×1.5	10	56	47.3	53.6
422LSF-57	422LSF-57 V	40	1	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	59	56.4	61.5
422LSF-58	422LSF-58 V	50S	1	38.1	38.0	46.2	2.0/2.5	M50×1.5	15	64	65.5	72.1
422LSF-59	422LSF-59 V	50	1	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	64	70.1	77.2
422LSF-61	422LSF-61 V	63	1	55.9	51.3	65.3	2.5	M63×1.5	15	67	80	87.4
422LSF-63	422LSF-63 V	75	1	67.9	62.5	78.0	2.5	M75×1.5	15	76	98.8	109.2
422LSF-64	422LSF-64 V	85	1	74	68	88	3.15	M85×2.0	20	110	115	126



CW-AL Gland Kit
Indoor / Outdoor Cable Gland (KA422 Series)

SUITABLE FOR USE WITH ALL ALUMINIUM WIRE ARMOURED CABLES

Features and benefits:

- Aluminium indoor & outdoor gland and accessories
- For Aluminium -wire armour plastic or rubber sheathed cables
- Suitable for most climatic conditions, weatherproof and waterproof
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity
- No Risk of Bi-metallic corrosion when clamping Aluminium Armours

Kit comprises:

CW-AL Gland
Aluminium Earth Tag
Aluminium Locknut
PCP Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Aluminium Wire Armoured Cables inc: BS 5467, BS 6622, BS 5308

Constructed using 6082-T6 Alluminium alloy

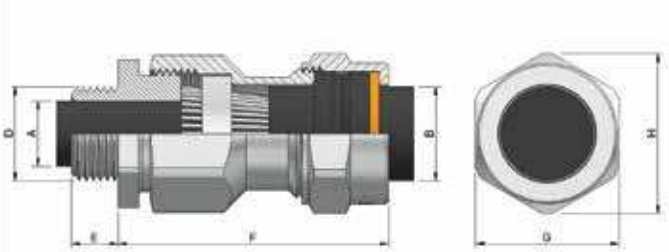
Complies with BS EN 50262 & BS 6121-1: 1989

Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Service temperature range -20°C to +90°C

Specifications

Gland Kit Reference			Cable Dimensions mm			Gland Dimensions mm					
Design Reference	Size	Qty per Kit	Under Armour Max Ø (A)	Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
				Min	Max					A/F (G)	A/C (H)
KA422-52	20S	2	11.6	8.0	15.8	0.9/1.25	M20×1.5	10	46	25.7	29.2
KA422-53	20	2	13.9	11.7	20.8	0.9/1.25	M20×1.5	10	46	30.5	34
KA422-55	25	2	19.9	17.0	27.2	1.25/1.6	M25×1.5	10	51	37.6	42.2
KA422-56	32	1	26.2	23.5	33.5	1.6/2.0	M32×1.5	10	56	47.3	53.6
KA422-57	40	1	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	59	56.4	61.5
KA422-58	50S	1	38.1	38.0	46.2	2.0/2.5	M50×1.5	15	64	65.5	72.1
KA422-59	50	1	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	64	70.1	77.2
KA422-61	63	1	55.9	51.3	65.3	2.5	M63×1.5	15	67	80	87.4
KA422-63	75	1	67.9	62.5	78.0	2.5	M75×1.5	15	76	98.8	109.2
KA422-64	85	1	74	68	88	3.15	M85×2.0	20	110	115	126



CW-AL LSOH Gland Kit

Indoor / Outdoor Cable Gland (432LSF Series)

SUITABLE FOR USE WITH ALL LSOH ALUMINIUM WIRE ARMOURED CABLES

Features and benefits:

- Indoor & outdoor type for LSOH Aluminium cable.
- Aluminium indoor & outdoor gland and LSOH accessories
- For Aluminium wire armour LSOH plastic or rubber sheathed cables
- Suitable for most climatic conditions, weatherproof and waterproof
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity
- No Risk of Bi-metallic corrosion when clamping Aluminium Armours

Kit comprises:

CW-AL Gland
Aluminium Earth Tag
Aluminium Locknut
LSOH Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Aluminium Wire Armoured Cables inc:
BS 6724, BS 7835

Constructed using 6082-T6 Alluminium alloy

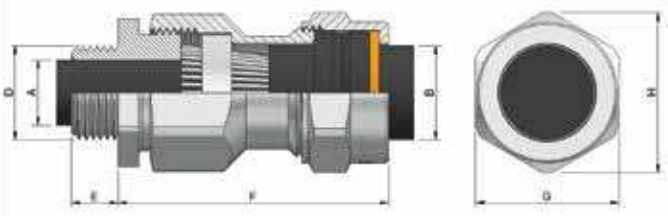
Complies with BS EN 50262 & BS 6121-1: 1989

Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Service temperature range -20°C to +90°C

Specifications

Gland Kit Reference			Cable Dimensions mm			Gland Dimensions mm					
Design Reference	Size	Qty per Kit	Under Armour Max Ø (A)	Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
				Min	Max					A/F (G)	A/C (H)
432LSF-52	20S	2	11.6	8.0	15.8	0.9	M20×1.5	10	46	25.7	29.2
432LSF-53	20	2	13.9	11.7	20.8	0.9/1.25	M20×1.5	10	46	30.5	34
432LSF-55	25	2	19.9	17.0	27.2	1.25/1.6	M25×1.5	10	51	37.6	42.2
432LSF-56	32	1	26.2	23.5	33.5	1.6/2.0	M32×1.5	10	56	47.3	53.6
432LSF-57	40	1	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	59	56.4	61.5
432LSF-58	50S	1	38.1	38.0	46.2	2.0/2.5	M50×1.5	15	64	65.5	72.1
432LSF-59	50	1	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	64	70.1	77.2
432LSF-61	63	1	55.9	51.3	65.3	2.5	M63×1.5	15	67	80	87.4
432LSF-63	75	1	67.9	62.5	78.0	2.5	M75×1.5	15	76	98.8	109.2



CX Gland Kit
Indoor / Outdoor Cable Gland (KA414 Series)

SUITABLE FOR USE WITH ALL BRAID WIRE ARMOURED CABLES

Features and benefits:

- Indoor & outdoor type for Wire Braid Armour cable
- Brass indoor & outdoor gland and accessories
- For Wire braid armour plastic or rubber sheathed cables
- Suitable for most climatic conditions, weatherproof and waterproof
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity

Kit comprises:

CX Gland
Brass Earth Tag
Brass Locknut
PCP Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Wire Braid Armoured Cables

CuZn39Pb3 brass alloy used for guaranteed strength and performance

Complies with BS EN 50262 & BS 6121-1: 1989

Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Service temperature range -20°C to +90°C

Specifications

Gland Kit Reference			Cable Dimensions mm			Gland Dimensions mm					
Design Reference	Size	Qty per Kit	Under Braid Max Ø (A)	Overall Ø (B)		Braid Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
				Min	Max					A/F (G)	A/C (H)
KA414-81	16*	2	7.5	3.5	9.2	0.2 / 0.3	M16×1.5	10	40	19.0	21.5
KA414-91	20mini*	2	7.5	3.5	9.2	0.2 / 0.3	M20×1.5	15	40	22.0	24.9
KA414-51	16	2	8.6	8.0	13.2	0.2 / 0.3	M16×1.5	10	44	23.4	26.7
KA414-71	20SS	2	8.6	8.0	13.2	0.2 / 0.3	M20×1.5	10	44	23.4	26.7
KA414-52	20S	2	11.6	8.0	15.8	0.2 / 0.3	M20×1.5	10	46	25.7	29.2
KA414-53	20	2	13.9	11.7	20.8	0.2 / 0.3	M20×1.5	10	46	30.5	34
KA414-55	25	2	19.9	17.0	27.2	0.2 / 0.45	M25×1.5	10	51	37.6	42.2
KA414-56	32	1	26.2	23.5	33.5	0.3 / 0.45	M32×1.5	10	56	47.3	53.6
KA414-57	40	1	32.1	29.0	39.9	0.3 / 0.45	M40×1.5	15	59	56.4	61.5
KA414-59	50	1	44.0	39.5	52.6	0.3 / 0.45	M50×1.5	15	64	70.1	77.2
KA414-61	63	1	55.9	51.3	65.3	0.3 / 0.45	M63×1.5	15	67	80.0	87.4
KA414-63	75	1	67.9	62.5	78.0	0.3 / 0.45	M75×1.5	15	76	98.8	109.2
KA414-64	85	1	74	68	88	0.3 / 0.45	M85×2.0	20	110	115	126
KA414-65	90	1	79	79	90	0.3 / 0.45	M90×2.0	20	136	Ø 114	

* For use with miniature braided cables. These kits do not include a shroud

CX-B Gland Kit (Long entry thread) Indoor / Outdoor Cable Gland (KA414-B Series)

SUITABLE FOR USE WITH ALL BRAID WIRE ARMOURED CABLES

Features and benefits:

- Indoor & outdoor type for Wire Braid Armour cable.
- 15mm Entry threads to facilitate extra seals / Lock washers
- Brass indoor & outdoor gland and accessories
- For Wire braid armour plastic or rubber sheathed cables
- Suitable for most climatic conditions, weatherproof and waterproof
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity

Kit comprises:

CX Gland
Brass Earth Tag
Brass Locknut
PCP Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Wire Braid Armoured Cables

CuZn39Pb3 brass alloy used for guaranteed strength and performance

Complies with BS EN 50262 & BS 6121-1: 1989

Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Service temperature range -20°C to +90°C

Specifications

Gland Kit Reference			Cable Dimensions mm			Gland Dimensions mm					
Design Reference	Size	Qty per Kit	Under Braid Max Ø (A)	Overall Ø (B)		Braid Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
				Min	Max					A/F (G)	A/C (H)
KA414-B81	16	2	8.6	8.0	13.2	0.2 / 0.3	M16×1.5	15	44	23.4	26.7
KA414-B91	20SS	2	8.6	8.0	13.2	0.2 / 0.3	M20×1.5	15	44	23.4	26.7
KA414-B82	20S	2	11.6	8.0	15.8	0.2 / 0.3	M20×1.5	15	46	25.7	29.2
KA414-B83	20	2	13.9	11.7	20.8	0.2 / 0.3	M20×1.5	15	46	30.5	34
KA414-B85	25	2	19.9	17.0	27.2	0.2 / 0.45	M25×1.5	15	51	37.6	42.2
KA414-B86	32	1	26.2	23.5	33.5	0.3 / 0.45	M32×1.5	15	56	47.3	53.6

E1W Gland Kit
Outdoor Wet Area Cable Gland (KAA413 Series)

SUITABLE FOR USE WITH ALL STEEL WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor & outdoor gland and accessories
- For galvanized-steel single-wire armour, plastic or rubber sheathed cables
- Outer seal grips sheath of cable
- Inner seal grips bedding layer of cable
- Suitable for most climatic conditions, weatherproof and waterproof
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity

Kit comprises:

E1W Gland
Brass Earth Tag
Brass Locknut
PVC Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Steel Wire Armoured Cables inc: BS 5467, BS 6622, BS 5308
CuZn39Pb3 brass alloy used for guaranteed strength and performance
Complies with BS EN 50262 & BS 6121-1: 1989
Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface
Service temperature range -20°C to +90°C
Metric and NPT versions available.

Specifications

Gland Kit Reference					Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size		Qty per Kit	Under Armour Max Ø (A)		Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated	Metric	NPT		Min	Max	Min	Max					A/F (G)	A/C (H)
KAA413-51	KAA413-51V	16		2	6.3	8.6	8.0	13.2	0.9	M16×1.5	15	44	23.4	26.7
KAA413-71	KAA413-71V	20SS		2	6.3	8.6	8.0	13.2	0.9	M20×1.5	15	44	23.4	26.7
KAA413-52	KAA413-52V	20S		2	8.7	11.6	8.0	15.8	0.9/1.25	M20×1.5	15	46	25.6	28.6
KAA413-53	KAA413-53V	20		2	11.7	13.9	11.7	20.8	0.9/1.25	M20×1.5	15	46	30.5	34.0
KAA413-55	KAA413-55V	25		2	13.0	19.9	17.0	27.2	1.25/1.6	M25×1.5	15	51	37.6	42.2
KAA413-56	KAA413-56V	32		1	20.0	26.2	23.5	33.5	1.6/2.0	M32×1.5	15	56	47.3	53.6
KAA413-57	KAA413-57V	40		1	26.3	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	59	56.4	61.5
KAA413-58	KAA413-58V	50S		1	32.2	38.1	38.0	46.2	2.0/2.5	M50×1.5	15	64	60.0	66.0
KAA413-59	KAA413-59V	50		1	38.2	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	64	70.1	77.2
KAA413-60	KAA413-60V	63s		1	44.1	50.0	50.0	58.9	2.5	M63×1.5	15	67	75.0	83.0
KAA413-61	KAA413-61V	63		1	50.1	55.9	51.3	65.3	2.5	M63×1.5	15	67	80.0	87.4
KAA413-62	KAA413-62V	75s		1	56.0	61.9	62.0	71.6	2.5	M75×1.5	15	76	90.8	101.2
KAA413-63	KAA413-63V	75		1	62.0	67.9	62.5	78.0	2.5	M75×1.5	15	76	98.8	109.2
KAA413-64	KAA413-64V	85		1	68.0	74.0	68.0	88.0	3.15	M85×2.0	20	102	115.0	126.0
KAA413-65	KAA413-65V	90		1	70.0	78.0	79.0	90.0	3.15	M90×2.0	20	140	Ø 132	
	413NP-03V		½" - 16	1	6.3	8.6	8.0	13.2	0.9	½" NPT	15.2	44	23.4	26.7
	413NP-04V		½" - 20S	1	8.7	11.6	8.0	15.8	0.9/1.25	½" NPT	15.2	46	23.4	26.7
	413NP-08V		¾" - 20	1	11.7	13.9	11.7	20.8	0.9/1.25	¾" NPT	16.3	46	30.5	34.0
	413NP-14V		1" - 25	1	13.0	19.9	17.0	27.2	1.25/1.6	1" NPT	19.3	51	27.9	31.8
	413NP-20V		1 ¼" - 32	1	20.0	26.2	23.5	33.5	1.6/2.0	1 ¼" NPT	20.3	56	47.3	53.6
	413NP-27V		1 ½" - 40	1	26.3	32.1	29.0	39.9	1.6/2.0	1 ½" NPT	20.8	59	56.4	61.5
	413NP-31V		2" - 50S	1	32.2	38.1	38.0	46.2	2.0/2.5	2" NPT	21.8	64	65.5	72.1
	413NP-32V		2" - 50	1	38.2	44.0	39.5	52.6	2.0/2.5	2" NPT	21.8	64	70.1	77.2
	413NP-38V		2 ½" - 63	1	50.1	55.9	51.3	65.3	2.5	2 ½" NPT	32.3	67	80.0	87.4
	413NP-44V		3" - 75S	1	56.0	61.9	62.0	71.6	2.5	3" NPT	33	76	98.8	109.2
	413NP-45V		3" - 75	1	62.0	67.9	62.5	78.0	2.5	3" NPT	33	76	98.8	109.2

*NPT Threaded glands are supplied as glands only. **Other NPT sizes available upon request.

E1W Gland Kit

Outdoor Wet Area Cable Gland (KA413 Series)

SUITABLE FOR USE WITH ALL STEEL WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor & outdoor gland and accessories
- For galvanized-steel single-wire armour plastic or rubber sheathed cables
- Outer seal grips sheath of cable
- Inner seal grips bedding layer of cable
- Suitable for most climatic conditions, weatherproof and waterproof
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity

Kit comprises:

E1W Gland
Brass Earth Tag
Brass Locknut
PCP Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Steel Wire Armoured Cables inc: BS 5467, BS 6622, BS 5308
CuZn39Pb3 brass alloy used for guaranteed strength and performance
Complies with BS EN 50262 & BS 6121-1: 1989
Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface
Service temperature range -20°C to +90°C
Metric & NPT versions available.

Specifications

Gland Kit Reference					Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size		Qty per Kit	Under Armour Max Ø (A)		Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated	Metric	NPT		Min	Max	Min	Max					A/F (G)	A/C (H)
KA413-51	KA413-51V	16		2	6.3	8.6	8.0	13.2	0.9	M16×1.5	15	44	23.4	26.7
KA413-71	KA413-71V	20SS		2	6.3	8.6	8.0	13.2	0.9	M20×1.5	15	44	23.4	26.7
KA413-52	KA413-52V	20S		2	8.7	11.6	8.0	15.8	0.9/1.25	M20×1.5	15	46	25.6	28.6
KA413-53	KA413-53V	20		2	11.7	13.9	11.7	20.8	0.9/1.25	M20×1.5	15	46	30.5	34.0
KA413-55	KA413-55V	25		2	13.0	19.9	17.0	27.2	1.25/1.6	M25×1.5	15	51	37.6	42.2
KA413-56	KA413-56V	32		1	20.0	26.2	23.5	33.5	1.6/2.0	M32×1.5	15	56	47.3	53.6
KA413-57	KA413-57V	40		1	26.3	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	59	56.4	61.5
KA413-58	KA413-58V	50S		1	32.2	38.1	38.0	46.2	2.0/2.5	M50×1.5	15	64	60.0	66.0
KA413-59	KA413-59V	50		1	38.2	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	64	70.1	77.2
KA413-60	KA413-60V	63s		1	44.1	50.0	50.0	58.9	2.5	M63×1.5	15	67	75.0	83.0
KA413-61	KA413-61V	63		1	50.1	55.9	51.3	65.3	2.5	M63×1.5	15	67	80.0	87.4
KA413-62	KA413-62V	75s		1	56.0	61.9	62.0	71.6	2.5	M75×1.5	15	76	90.8	101.2
KA413-63	KA413-63V	75		1	62.0	67.9	62.5	78.0	2.5	M75×1.5	15	76	98.8	109.2
KA413-64	KA413-64V	85		1	68.0	74.0	68.0	88.0	3.15	M85×2.0	20	102	115.0	126.0
KA413-65	KA413-65V	90		1	70.0	78.0	79.0	90.0	3.15	M90×2.0	20	140	Ø 132	
	413NP-03V		½" - 16	1	6.3	8.6	8.0	13.2	0.9	½" NPT	15.2	44	23.4	26.7
	413NP-04V		½" - 20S	1	8.7	11.6	8.0	15.8	0.9/1.25	½" NPT	15.2	46	25.6	28.6
	413NP-08V		¾" - 20	1	11.7	13.9	11.7	20.8	0.9/1.25	¾" NPT	16.3	46	30.5	34.0
	413NP-14V		1" - 25	1	13.0	19.9	17.0	27.2	1.25/1.6	1" NPT	19.3	51	37.6	42.2
	413NP-20V		1 ¼" - 32	1	20.0	26.2	23.5	33.5	1.6/2.0	1 ¼" NPT	20.3	56	47.3	53.6
	413NP-27V		1 ½" - 40	1	26.3	32.1	29.0	39.9	1.6/2.0	1 ½" NPT	20.8	59	56.4	61.5
	413NP-31V		2" - 50S	1	32.2	38.1	38.0	46.2	2.0/2.5	2" NPT	21.8	64	65.5	72.1
	413NP-32V		2" - 50	1	38.2	44.0	39.5	52.6	2.0/2.5	2" NPT	21.8	64	70.1	77.2
	413NP-38V		2 ½" - 63	1	50.1	55.9	51.3	65.3	2.5	2 ½" NPT	32.3	67	80.0	87.4
	413NP-44V		3" - 75S	1	56.0	61.9	62.0	71.6	2.5	3" NPT	33	76	90.8	101.2
	413NP-45V		3" - 75	1	62.0	67.9	62.5	78.0	2.5	3" NPT	33	76	98.8	109.2

*NPT Threaded glands are supplied as glands only. **Other NPT sizes available upon request.

CE

E1W LSOH Gland Kit
Outdoor Wet Area Cable Gland (421LSF Series)

SUITABLE FOR USE WITH ALL LSOH STEEL WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor & outdoor gland and accessories
- For galvanized-steel single-wire armour plastic or rubber sheathed cables
- Outer seal grips sheath of cable
- Inner seal grips bedding layer of cable
- Suitable for most climatic conditions, weatherproof and waterproof
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity

Kit comprises:

E1W Gland
Brass Earth Tag
Brass Locknut
LSOH Shroud
(2 per kit up to and including 25mm size)

Technical Information:

Suitable for use with all Steel Wire Armoured Cables inc: BS 6724, BS 8519, BS 7846, BS 6387, BS 7835

CuZn39Pb3 brass alloy used for guaranteed strength and performance

Complies with BS EN 50262 & BS 6121-1: 1989

Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface

Service temperature range -20°C to +90°C

Complies with LU Standard 1-085 for installation in all sub-surface locations

LUL APR Product ID 1970

Specifications

Gland Kit Reference			Cable Dimensions mm				Gland Dimensions mm					
Design Reference	Size	Qty per Kit	Under Armour Ø (A)		Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
			Min	Max	Min	Max					A/F (G)	A/C (H)
421LSF-71	20SS	2	6.3	8.6	8.0	13.2	0.9	M20×1.5	15	44	23.4	26.7
421LSF-52	20S	2	8.7	11.6	8.0	15.8	0.9/1.25	M20×1.5	15	46	25.7	29.2
421LSF-53	20	2	11.7	13.9	11.7	20.8	0.9/1.25	M20×1.5	15	46	30.5	34.0
421LSF-55	25	2	13.0	19.9	17.0	27.2	1.25/1.6	M25×1.5	15	51	37.6	42.2
421LSF-56	32	1	20.0	26.2	23.5	33.5	1.6/2.0	M32×1.5	15	56	47.3	53.6
421LSF-57	40	1	26.3	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	59	56.4	61.5
421LSF-58	50S	1	32.2	38.1	38.0	46.2	2.0/2.5	M50×1.5	15	64	60.0	66.0
421LSF-59	50	1	38.2	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	64	70.1	77.2
421LSF-60	63s	1	44.1	50.0	50.0	58.9	2.5	M63×1.5	15	67	75.0	83.0
421LSF-61	63	1	50.1	55.9	51.3	65.3	2.5	M63×1.5	15	67	80.0	87.4
421LSF-62	75s	1	56.0	61.9	62.0	71.6	2.5	M75×1.5	15	76	90.2	99.1
421LSF-63	75	1	62.0	67.9	62.5	78.0	2.5	M75×1.5	15	76	98.8	109.2

CW Integral Earth Gland Kit
Indoor / Outdoor Cable Gland (419CE Series)

SUITABLE FOR USE WITH ALL STEEL WIRE ARMOURED CABLES WITH HIGH FAULT CURRENT

Features and benefits:

- Indoor & outdoor type for SWA cable.
- Brass indoor & outdoor gland with Earth bonding Connection
- For galvanized-steel single-wire armour plastic or rubber sheathed cables
- Suitable for most climatic conditions, weatherproof and waterproof
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity

Kit comprises:

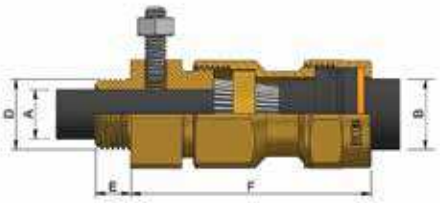
CW Integral Earth Gland
Brass Locknut

Technical Information:

Suitable for use with all Steel Wire Armoured Cables inc: BS 5467, BS 6622, BS 5308
CuZn39Pb3 brass alloy used for guaranteed strength and performance
Complies with BS EN 50262 & BS 6121-1: 1989
Integral earth connection complies with GDCD 190 Category A - (43.3kA for 1 second)
Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface
Service temperature range -20°C to +90°C

Specifications

Gland Kit Reference			Cable Dimensions mm			Gland Dimensions mm					
Design Reference	Size	Qty per Kit	Under Armour Max Ø (A)	Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
				Min	Max					A/F (G)	A/C (H)
419CE-52	20S	1	11.6	8.0	15.8	0.9/1.25	M20×1.5	10	56	30.5	34
419CE-53	20	1	13.9	11.7	20.8	0.9/1.25	M20×1.5	10	56	30.5	34
419CE-55	25	1	19.9	17.0	27.2	1.25/1.6	M25×1.5	10	63	42.4	48
419CE-56	32	1	26.2	23.5	33.5	1.6/2.0	M32×1.5	10	73	56.4	61.5
419CE-57	40	1	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	77	56.4	61.5
419CE-59	50	1	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	84	70.1	77.2
419CE-61	63	1	55.9	51.3	65.3	2.5	M63×1.5	15	84	90.1	100
419CE-63	75	1	67.9	62.5	78.0	2.5	M75×1.5	15	94	106.2	117
419CE-64	85	1	74.0	68.0	88.0	3.15	M85×2.0	20	125	115	126
419CE-65	90	1	79.0	79.0	90.0	3.15	M90×2.0	20	152	Ø 132.5	
419CE-66	100	1	89.0	89.0	99.0	3.15	M100×2.0	20	152	Ø 132.5	
419CE-67	110	1	99.5	99.5	112.5	3.15	M110×2.0	20	152	Ø 138.5	



CE

CW-AL Integral Earth Gland Kit
Indoor / Outdoor Cable Gland (454CE Series)

SUITABLE FOR USE WITH ALUMINIUM WIRE ARMOURED CABLES WITH HIGH FAULT CURRENT

Features and benefits:

- Aluminium indoor & outdoor gland and accessories
- For Aluminium-wire armour plastic or rubber sheathed cables
- Suitable for most climatic conditions, weatherproof and waterproof
- Three part amour lock with separate armour locking ring, ideal for checking electrical continuity
- No Risk of Bi-metallic corrosion when clamping Aluminium Armours

Kit comprises:

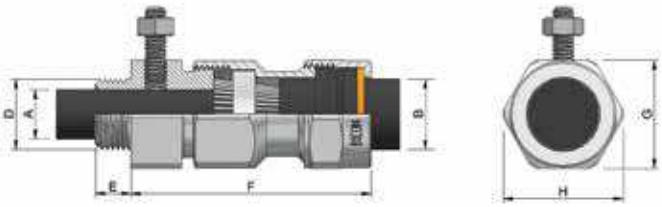
CW-A integral earth Gland
Aluminium Locknut

Technical Information:

Suitable for use with all Aluminium Wire Armoured Cables inc: BS 5467, BS 6622, BS 5308
Constructed using 6082-T6 Alluminium alloy
Complies with BS EN 50262 & BS 6121-1: 1989
Integral earth connection complies with GDCD 190 Category A - (43.3kA for 1 second)
Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface
Service temperature range -20°C to +90°C

Specifications

Gland Kit Reference			Cable Dimensions mm			Gland Dimensions mm					
Design Reference	Size	Qty per Kit	Under Armour Max Ø (A)	Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
				Min	Max					A/F (G)	A/C (H)
454CE-52	20S	1	11.6	8.0	15.8	0.9/1.25	M20×1.5	10	56	30.5	34.0
454CE-53	20	1	13.9	11.7	20.8	0.9/1.25	M20×1.5	10	56	37.6	42.2
454CE-55	25	1	19.9	17.0	27.2	1.25/1.6	M25×1.5	10	63	42.4	48.0
454CE-56	32	1	26.2	23.5	33.5	1.6/2.0	M32×1.5	10	73	56.4	61.5
454CE-57	40	1	32.1	29.0	39.9	1.6/2.0	M40×1.5	15	77	56.4	61.5
454CE-59	50	1	44.0	39.5	52.6	2.0/2.5	M50×1.5	15	84	70.1	77.2
454CE-61	63	1	55.9	51.3	65.3	2.5	M63×1.5	15	84	90.2	99.1
454CE-63	75	1	67.9	62.5	78.0	2.5	M75×1.5	15	94	106.0	117.0



CE

CW-Dual Screen Gland Kit
Concentric Bonding Cable Gland (422DA Series)

SUITABLE FOR USE WITH SINGLE CORE CONCENTRIC BONDING CABLES WITH DUAL LAYER SCREENS

Features and benefits:

- Concentric Bonding Cable gland
- Brass Gland and accessories
- For Dual layer copper wire Screened Concentric Bonding Cables
- Suitable for most climatic conditions, weatherproof and waterproof
- Tandomized armour ring & body arrangement for compact termination of 2 layers of Copper screen wires
- Secondary seal & shroud for topside of the steel structure

Kit comprises:

Dual Screen CW Gland
Nylon Sealing Washer
Top seal assembly
LSOH Shroud for Top Seal assembly

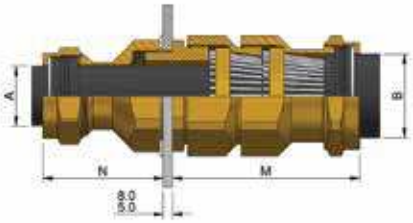
LSOH

Technical Information:

Suitable for use with all Concentric dual layer copper wire screened bonding cables
Gland rated to IP66 with use of suitable sealing washer or thread sealant at gland interface
Service temperature range -20°C to +90°C

Specifications

Gland Kit Reference			Cable Dimensions mm					Gland Dimensions mm					
Design Reference	Size	Qty per Kit	Conductor Insulation Ø (A)		Overall Ø (B)		Screen Wire Ø	Entry Thread	Thread Length	Protrusion Length (M)	Protrusion Length (N)	Hexagon	
			Min	Max	Min	Max						A/F (G)	A/C (H)
422DA-90	40	1	17.0	27.2	29.0	39.9	0.9/1.3	M40×1.5	15	92	54	56.4	61.5
422DA-91	50ss	1	23.5	33.5	38.0	46.2	1.85/2.2	M50×1.5	15	100	67	60	66
422DA-92	50s	1	23.5	33.5	39.5	52.6	1.6/2.1	M50×1.5	15	110	67	70.1	77.2
422DA-93	50	1	29.0	39.9	39.5	52.6	1.6/2.1	M50×1.5	15	110	67	70.1	77.2
422DA-95	63	1	39.5	52.6	51.3	65.3	2.2	M63×1.5	15	114	74	80	87.4
422DA-96	75	1	39.6	52.6	62.5	78.0	2.6	M75×1.5	15	126	74	98.8	109.2



CE

Introduction to Hazardous Areas

Explosive Atmospheres

Explosive Atmospheres are defined as a combination of flammable gases, vapours or solids (dusts & fibres) mixed with Air. When combined with a source of ignition the combination will combust burning all of the available flammable mixture.

Hazardous Locations

In order to protect personal and equipment from potential explosions the principle of area classification is used - this involves risk assessing the plant area and defining areas according to the type of flammable material and the probability of its release to create an explosive atmosphere.

Area classification

Under the IECEx / Atex systems a plant will be divided into non-hazardous and hazardous areas. The hazardous areas are then sub-divided into Zones.

Combustible Gases & Vapours :
Zone 0 : Explosive Atmosphere permanently present , or present for very long periods.

Zone 1 : Explosive Atmospheres may be present as a result of normal operation

Zone 2 : Explosive Atmospheres not present as a result of normal operations and if they do occur they are only present for a very short duration.

Combustible Dusts & Fibres:
Zones 20 , 21 and 22 are the dust & fibre equivalents of Zones 0,1 & 2.

Protection Methods - (applicable to Bicon glands)

Ex Ia & Ex Ib -Intrinsically safe equipment designed in such a way that the energy of any spark is lower than that can ignite a flammable mixture. Ia is designed to a higher integrity and can be used in Zone 0 locations whereas Ib is only suitable for Zone 1 & 2 locations.

Ex d – Flameproof equipment is designed in such a way that it can contain / control an ignited flammable mixture and prevent it from igniting any flammable mixture that may be outside the equipment. This protection method can be used in Zones 1 & 2.

Ex e – Increased safety equipment is designed using components that cannot create arcs and sparks i.e. result in ignition – these enclosures can be made from thinner section materials but are required to be sealed to a minimum ingress protection level of IP54. This protection method can be used in Zones 1 & 2.

Ex p – pressurized equipment that is constantly pressurized such that flammable mixtures are continuously expelled from the equipment. This protection method can be used in zones 1& 2.

Ex nA - Similar to Exe in that equipment should not create arcs and sparks but not to the same stringent levels. This protection method can only be used in Zone 2.

Ex nR - Restricted breathing equipment is fitted with tightly fitting seals which help prevent the ingress of explosive mixtures and thus prevents them from reaching hot components. This protection method can only be used in Zone 2.

Gas Groups

Explosive gases are split into 2 groups:
Group 1: Underground mining related gases i.e
Firedamp / Methane

Group 2: Gases present in other locations.

Exd and Exi Equipment used with Group 2 gases are further sub divided into 3 categories IIA, IIB & IIC appropriate to the gas / vapour sub-division.

Gas / Vapour	Equipment Sub Group Allowed
Hydrogen	IIC
Acetylene	IIC
Carbon Di-Sulphide	IIC
Hydrogen Sulphide	IIC , IIB
Ethylene Sulphide	IIC , IIB
Ethylene	IIC , IIB
Propane	IIC , IIB , IIA
Butane	IIC , IIB , IIA

Surface Temperature classification

Temperature Class Max surface Temp °C

T1	450
T2	300
T3	200
T4	135
T5	100
T6	85

Temperature Ratings / Classes for Cable Glands

Cable glands are not allocated a 'T' class because they are designed as a component part of a piece of equipment and in themselves do not produce heat; therefore it is impossible to assess any heating effects. However glands are allocated a 'service' temperature, which is the temperature range to which a gland may be subjected to in service (if not specified in the certification report this is assumed to be -20°C / +40°C and it is the responsibility of the user, in accordance with the installation codes of practice, to select an appropriate gland.

In some cases it may be possible for a gland manufacturer to state that a gland is suitable for a specific 'T' class application, i.e. where the glands specified 'service' temperature significantly exceeds the limiting temperature of the specified 'T' class, but the gland will not be marked with any 'T' rating. In most cases the above assessment is best left to the user, since 'T' classes are allocated on the basis of a maximum possible external surface temperature, whilst in service the gland may see greater internal temperatures, or vastly reduced temperatures, due to factors like positioning, the external ambient and the geometry of the enclosure to which they are fitted.

Barrier Glands & when required

Selection of cable glands (BS EN 60079-14:2008 10.4.2 Selection of cable glands)

The cable entry system shall comply with one of the following:

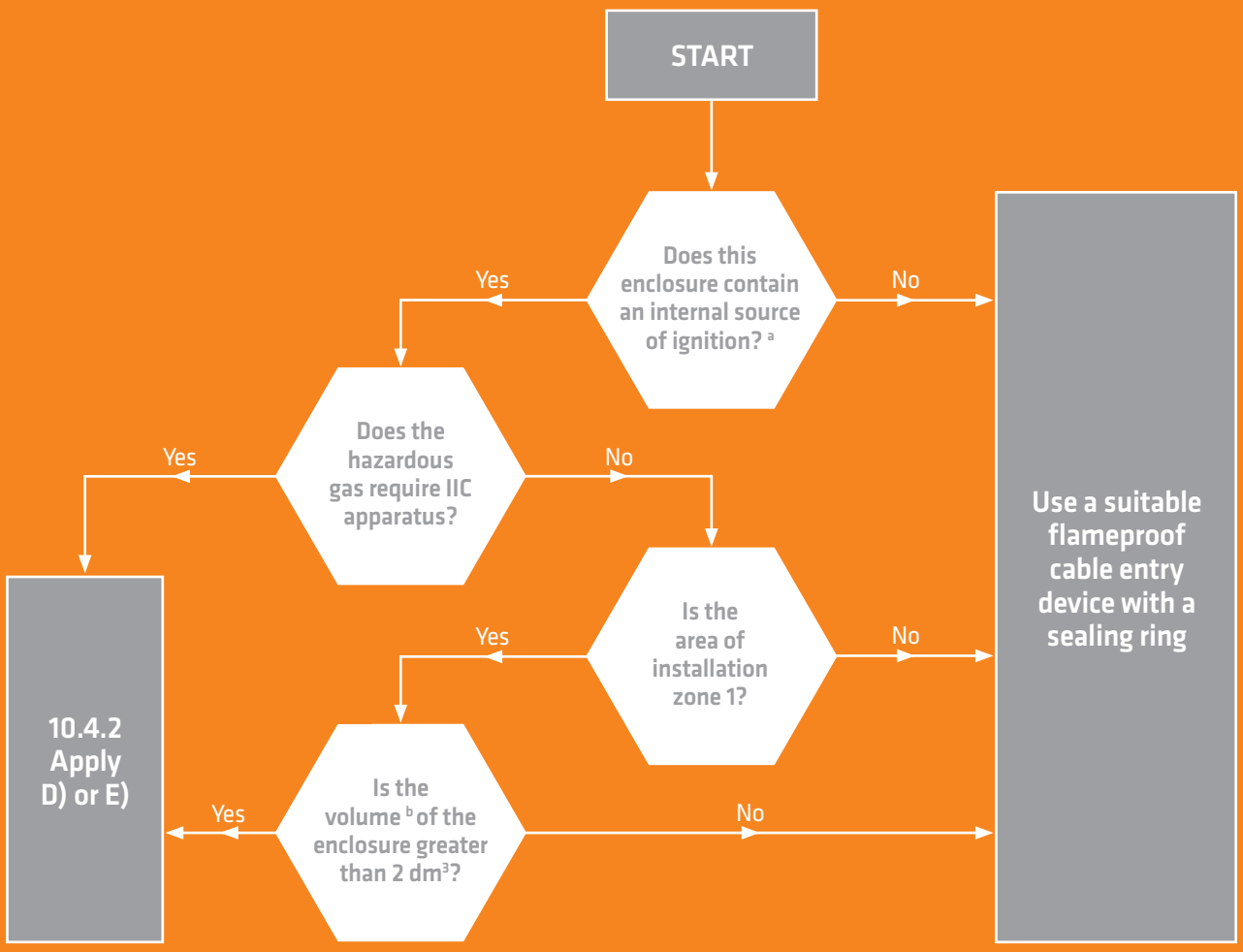
A) Cable glands in compliance with IEC 60079-1 and certified as part of the equipment when tested with a sample of the particular type of cable;

B) Where a cable, in compliance with 9.3.1(a) is substantially compact; a flameproof cable gland, in compliance with IEC 60079-1, may be utilized, providing this incorporates a sealing ring and is selected in accordance with Figure 2.

C) Compliance with Figure 1 is not necessary if the cable gland complies with IEC 60079-1 and has been tested with a sample of specific cable to repeated ignitions of the flammable gas inside an enclosure and shows no ignition outside the enclosure.

D) Flameproof sealing device (for example a sealing chamber) specified in the equipment documentation or complying with IEC 60079-1 and employing a cable gland appropriate to the cables used. The sealing device shall incorporate compound or other appropriate seals which permit stopping around individual cores. The sealing device shall be fitted at the point of entry of cables to the equipment;

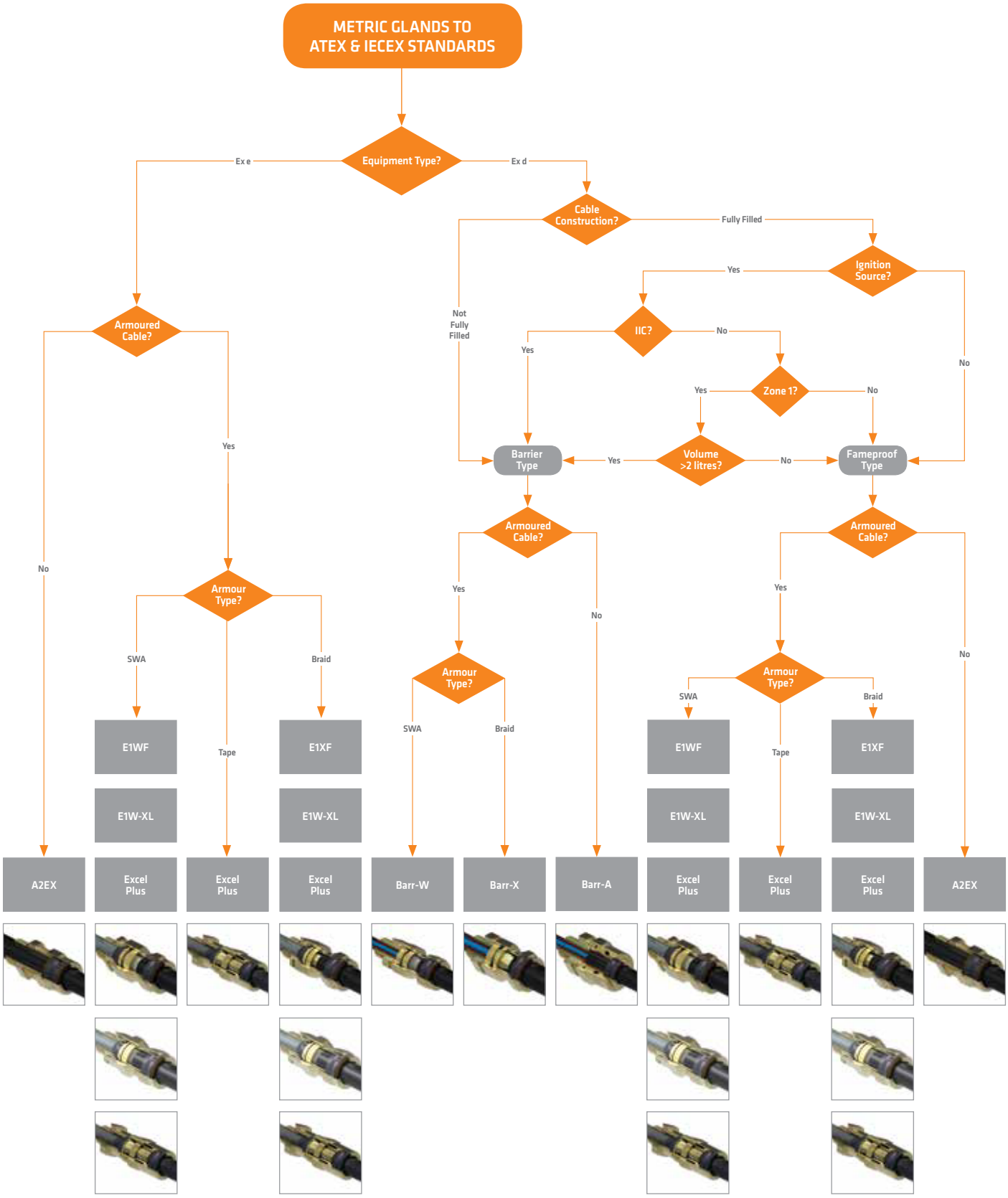
E) Flameproof cable gland, specified in the equipment documentation or complying with IEC 60079-1, incorporating compound filled seals or elastomeric seals that seal around the individual cores or other equivalent sealing arrangements;



IEC 2696/02

[a] Internal sources of ignition include sparks or equipment temperatures occurring in normal operation which can cause ignition. An enclosure containing terminals only or an indirect entry enclosure (see 10.4.1) is considered not to constitute an internal source of ignition.

HAZARDOUS GLAND SELECTION CHART



HAZARDOUS AREA GLAND CONTENTS

Location	Protection	Armour	Gland		Page	
Hazardous Areas	Exe	Un-Armoured	Nylon Exe ATEX Gland & Nut	403AT		38
	Exd + Exe	Un-Armoured	A2EX Gland Exe Exd IIC (+ Nickel Plated Version)	494AB (V)		39
			A2EX Gland Exe Exd IIC - NPT (+ Nickel Plated Version)	494NE (V)		40
			A2EX Gland Kit Exe Exd IIC (+ Nickel Plated Version)	KM494 (V)		41
			A2EXPlus Gland Exe Exd IIC (+ Nickel Plated Version)	495AB (V)		42
			A2EXPlus Gland Exe Exd IIC - NPT (+ Nickel Plated Version)	495NE (V)		43
			A2EXPlus Gland Kit Exe Exd IIC (+ Nickel Plated Version)	KM495 (V)		44
		SWA / AWA	E1WF Gland Exe Exd IIC (+ Nickel Plated Version)	472AA (V)		45
			E1WF Gland Exe Exd IIC - NPT (+ Nickel Plated Version)	472NP (V)		46
			E1WF Gland Kit Exe Exd IIC (+ Nickel Plated Version)	KCA472 (V)		47
			E1WF Gland Kit Exe Exd IIC - PCP Shroud (+ Nickel Plated Version)	KA472 (V)		48
			E1WF Aluminium Gland Exe Exd IIC	455AA		49
			E1WF Aluminium Gland Kit Exe Exd IIC	KCA455		50
		Braid	E1XF Gland Exe Exd IIC (+ Nickel Plated Version)	473AA (V)		51
			E1XF Gland Exe Exd IIC - NPT (+ Nickel Plated Version)	473NP (V)		52
			E1XF Gland Kit Exe Exd IIC (+ Nickel Plated Version)	KCA473 (V)		53
			E1XF Gland Kit Exe Exd IIC - PCP Shroud (+ Nickel Plated Version)	KA473 (V)		54
		SWA + Braid + Lead	E1WXL Gland Exe Exd IIC (+ Nickel Plated Version)	474SW (V)		55
			E1WXL Gland Exe Exd IIC - NPT (+ Nickel Plated Version)	474NP (V)		56
			E1WXL Gland Kit Exe Exd IIC (+ Nickel Plated Version)	KA474 (V)		57
		SWA + Braid + Tape	Excel Plus Gland Exe Exd IIC (+ Nickel Plated Version)	493AB (V)		58
			Excel Plus Gland Exe Exd IIC - NPT (+ Nickel Plated Version)	493NE (V)		59
			Excel Plus Gland Kit Exe Exd IIC (+ Nickel Plated Version)	KA493 (V)		60
	Exd Barrier	Un-Armoured	Barr-A Gland Exd IIC (+ Nickel Plated Version)	424TA (V)		61
		SWA	Barr-W Gland Exd IIC (+ Nickel Plated Version)	424TW (V)		62
		Braid	Barr-X Gland Exd IIC (+ Nickel Plated Version)	424TX (V)		63
		SWA + Lead	Barr-PB Gland Exd IIC (+ Nickel Plated Version)	424TP (V)		64

Nylon Ex e Cable Gland (403AT Series)

SUITABLE FOR USE WITH CIRCULAR UN-ARMOURED CABLES

Features and benefits:

- Nylon indoor and outdoor cable gland for use in hazardous locations.
- Suitable for use with all unarmoured circular cables.
- Suitable for most climatic conditions - weather proof & waterproof
- Supplied with nylon locknut

Technical Information:

Achieves IP66 and IP68 seal onto cable and to enclosure with suitable sealing washer or thread sealant

Certified II 2GD, Ex e II under ATEX directive 94/9/EC.

Atex Compliance Standards: EN 60079-0, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number LCIE07ATEX6082X.

Service temperature range –35°C to +95°C.

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

Kit comprises:

Nylon Gland
Nylon lock nut

Specifications

Gland Reference		Cable Dimensions mm		Gland Dimensions mm				
Design Reference	Size	Cable Diameter Ø (B) mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
		Min	Max				A/F (G)	A/C (H)
403AT-51	16	5	8	M16x1.5	15	27	22	24.2
403AT-52	20S	7	12	M20x1.5	15	30	26	28.6
403AT-53	20	10	14	M20x1.6	15	33	26	28.6
403AT-55	25	12	18	M25x1.5	15	38	32	35.2
403AT-56	32	16	25	M32x1.5	15	42	42	46.2
403AT-57	40	22	32	M40x1.5	16	52	54	59.4
403AT-59	50	28	38.5	M50x1.5	16	55	66	72.6
403AT-61	63	40	48	M63x1.5	16	56	80	88

A2EX Ex d IIC / Ex e II Cable Gland (494AB Series)

SUITABLE FOR USE WITH CIRCULAR UN-ARMOURED & BRAIDED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular unarmoured cables with extruded oversheath
- Fitted with silicone rubber low smoke, zero halogen seal
- Achieves IP66, IP68 (1 bar) and deluge proof (DTS01:1991) seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira99ATEX1086X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0069X

Service temperature range –50°C to +200°C

UL Classified in accordance with IEC 60079-0, 60079-1 and 60079-7 for use in hazardous locations

UL Listed for use in Class 1, Zone 0, 1 and 2 hazardous locations for Canada

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

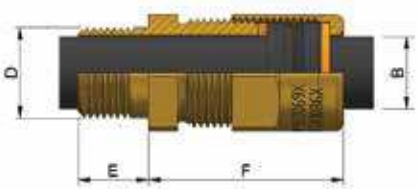
Where the cable is effectively filled, may also be used in:

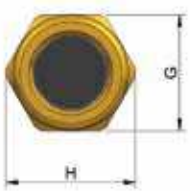
- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Specifications

Gland Reference		Cable Dimensions mm			Gland Dimensions mm				
Design Reference		Size	Cable Diameter Ø (B) mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max				A/F (G)	A/C (H)
494AB-51	494AB-51V	16	3.5	8.5	M16×1.5	15	36	22	24.9
494AB-71	494AB-71V	20SS	3.5	8.5	M20×1.5	15	36	22	24.9
494AB-52	494AB-52V	20S	8.0	11.5	M20×1.5	15	36	22	24.9
494AB-53	494AB-53V	20	8.0	16.0	M20×1.5	15	34	25.7	28.7
494AB-55	494AB-55V	25	11.5	21.0	M25×1.5	15	44	33	36.9
494AB-56	494AB-56V	32	18.5	27.5	M32×1.5	15	38	37.5	42.2
494AB-57	494AB-57V	40	24.0	34.0	M40×1.5	15	46	47.2	53.6
494AB-59	494AB-59V	50	31.0	41.0	M50×1.5	15	44	56.4	61.5
494AB-61	494AB-61V	63	40.0	52.5	M63×1.5	15	61	70	77.2
494AB-62	494AB-62V	75S	52.5	58.0	M75×1.5	15	46	80	87.4
494AB-63	494AB-63V	75	54.5	65.5	M75×1.5	15	66	80	87.4

Sizes 32mm and above shall only be used for fixed installations.
In addition the user / installer should ensure that the cables are adequately clamped.





A2EX(NPT) Ex d IIC / Ex e II Cable Gland (494NE Series)

SUITABLE FOR USE WITH CIRCULAR UN-ARMOURED & BRAIDED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular unarmoured cables with extruded oversheath
- Fitted with silicone rubber low smoke, zero halogen seal
- Achieves IP66, IP68 (1 bar) and deluge proof (DTS01:1991) seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 cm^3
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 cm^3
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira99ATEX1086X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0069X

Service temperature range –50°C to +200°C

UL Classified in accordance with IEC 60079-0, 60079-1 and 60079-7 for use in hazardous locations

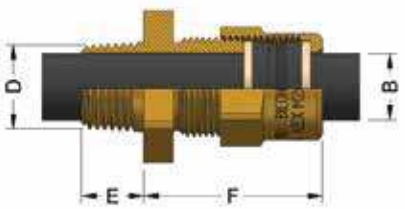
UL Listed for use in Class 1, Zone 0, 1 and 2 hazardous locations for Canada

Specifications

Gland Reference		Cable Dimensions mm			Gland Dimensions mm				
Design Reference		Size	Cable Diameter Ø (B) mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max				A/F (G)	A/C (H)
494NE-03	494NE-03V	½"- 16	3.5	8.5	½" NPT	15.5	36	25.7	28.7
494NE-04	494NE-04V	½"- 20S	8.0	11.5	½" NPT	15.5	36	27.8	31.8
494NE-05	494NE-05V	½"- 20	8.0	16.0	½" NPT	15.5	34	33	36.9
494NE-08	494NE-08V	¾" - 20	8.0	16.0	¾" NPT	16.4	34	33	36.9
494NE-10	494NE-10V	¾" - 25	11.5	21.0	¾" NPT	16.4	44	33	36.9
494NE-14	494NE-14V	1" - 25	11.5	21.0	1" NPT	19.5	44	37.5	42.2
494NE-15	494NE-15V	1" - 32	18.5	27.5	1" NPT	19.5	38	37.5	42.2
494NE-20	494NE-20V	1¼" - 32	18.5	27.5	1¼" NPT	20.5	38	47.2	52.9
494NE-21	494NE-21V	1¼" - 40	24.0	34.0	1¼" NPT	20.5	46	47.2	53.6
494NE-27	494NE-27V	1 ½" - 40	24.0	34.0	1½" NPT	21	46	56.4	63.1
494NE-32	494NE-32V	2" - 50	31.0	41.0	2" NPT	22	44	65	71.5
494NE-38	494NE-38V	2½" - 63	40.0	52.5	2½" NPT	32.5	61	80	87.4
494NE-44	494NE-44V	3" - 75S	52.5	58.0	3" NPT	33.5	46	98.8	109.2
494NE-45	494NE-45V	3"- 75	54.5	65.5	3" NPT	33.5	66	98.8	109.2

*NPT Threaded glands are supplied as glands only. **Other NPT sizes available upon request.

Sizes 32 and above shall only be used for fixed installations.
In addition the user / installer should ensure that the cables are adequately clamped.



A2EX Ex d IIC / Ex e II
Cable Gland kit (KM494 Series)

SUITABLE FOR USE WITH CIRCULAR UN-ARMOURED & BRAIDED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular unarmoured cables with extruded oversheath
- Fitted with silicone rubber low smoke, zero halogen seal
- Achieves IP66, IP68 (1 bar) and deluge proof (DTS01:1991) seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira99ATEX1086X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0069X

Service temperature range –50°C to +200°C

UL Classified in accordance with IEC 60079-0, 60079-1 and 60079-7 for use in hazardous locations

UL Listed for use in Class 1, Zone 0, 1 and 2 hazardous locations for Canada

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

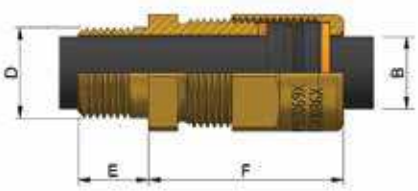
Kit comprises:

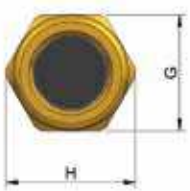
A2EX Gland
Brass Locknut
Nylon Sealing Washer
PVC Shroud
(2 per kit up to and including 25mm size)

Specifications

Gland Kit Reference				Cable Dimensions mm		Gland Dimensions mm				
Design Reference		Size	Qty per Kit	Cable Diameter Ø (B) mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated			Min	Max				A/F (G)	A/C (H)
KM494-51	KM494-51V	16	2	3.5	8.5	M16×1.5	15	36	22	24.9
KM494-71	KM494-71V	20SS	2	3.5	8.5	M20×1.5	15	36	22	24.9
KM494-52	KM494-52V	20S	2	8.0	11.5	M20×1.5	15	36	22	24.9
KM494-53	KM494-53V	20	2	8.0	16.0	M20×1.5	15	34	25.7	28.7
KM494-55	KM494-55V	25	2	11.5	21.0	M25×1.5	15	44	33	36.9
KM494-56	KM494-56V	32	1	18.5	27.5	M32×1.5	15	38	37.5	42.2
KM494-57	KM494-57V	40	1	24.0	34.0	M40×1.5	15	46	47.2	53.6
KM494-59	KM494-59V	50	1	31.0	41.0	M50×1.5	15	44	56.4	61.5
KM494-61	KM494-61V	63	1	40.0	52.5	M63×1.5	15	61	70	77.2
KM494-62	KM494-62V	75S	1	52.5	58.0	M75×1.5	15	46	80	87.4
KM494-63	KM494-63V	75	1	54.5	65.5	M75×1.5	15	66	80	87.4

Sizes 32 and above shall only be used for fixed installations.
In addition the user / installer should ensure that the cables are adequately clamped.





A2EXP Ex d IIC / Ex e II
Dual Seal Cable Gland (495AB Series)

SUITABLE FOR USE WITH CIRCULAR UN-ARMOURED & BRAIDED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular unarmoured cables with extruded oversheath
- Fitted with silicone rubber low smoke, zero halogen seal
- Achieves IP66, IP68 (1 bar) and deluge proof (DTS01:1991) seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira99ATEX1086X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0069X

Service temperature range –50°C to +200°C

UL Classified in accordance with IEC 60079-0, 60079-1 and 60079-7 for use in hazardous locations

UL Listed for use in Class 1, Zone 0, 1 and 2 hazardous locations for Canada

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

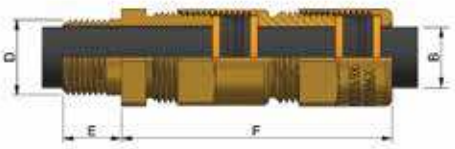
Where the cable is effectively filled, may also be used in:

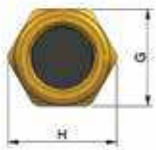
- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 cm^3
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 cm^3
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Specifications

Gland Reference			Cable Dimensions mm		Gland Dimensions mm				
Design Reference		Size	Cable Diameter Ø (B) mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max				A/F (G)	A/C (H)
495AB-51	495AB-51V	16	3.5	8.5	M16×1.5	15	65	22	24.9
495AB-71	495AB-71V	20SS	3.5	8.5	M20×1.5	15	65	22	24.9
495AB-52	495AB-52V	20S	8.0	11.5	M20×1.5	15	62	22	24.9
495AB-53	495AB-53V	20	8.0	16.0	M20×1.5	15	81	25.7	28.7
495AB-55	495AB-55V	25	11.5	21.0	M25×1.5	15	85	33	36.9
495AB-56	495AB-56V	32	18.5	27.5	M32×1.5	15	69	37.5	42.2
495AB-57	495AB-57V	40	24.0	34.0	M40×1.5	15	82	47.2	53.6
495AB-59	495AB-59V	50	31.0	41.0	M50×1.5	15	79	56.4	61.5
495AB-61	495AB-61V	63	40.0	52.5	M63×1.5	15	113.5	70	77.2
495AB-62	495AB-62V	75S	52.5	58.0	M75×1.5	15	78.5	80	87.4
495AB-63	495AB-63V	75	54.5	65.5	M75×1.5	15	120	80	87.4

Sizes 75s and 75 shall only be used for fixed installations.
In addition the user / installer should ensure that the cables are adequately clamped.





A2EXP (NPT) Ex d IIC / Ex e II
Dual Seal Cable Gland (495NE Series)

SUITABLE FOR USE WITH CIRCULAR UN-ARMOURED & BRAIDED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular unarmoured cables with extruded oversheath
- Fitted with silicone rubber low smoke, zero halogen seal
- Achieves IP66, IP68 (1 bar) and deluge proof (DTS01:1991) seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira99ATEX1086X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0069X

Service temperature range –50°C to +200°C

UL Classified in accordance with IEC 60079-0, 60079-1 and 60079-7 for use in hazardous locations

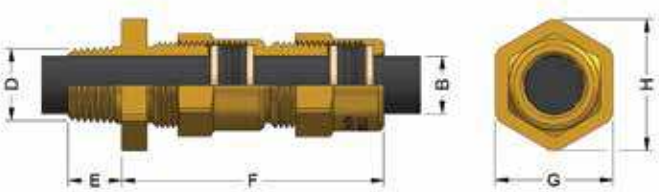
UL Listed for use in Class 1, Zone 0, 1 and 2 hazardous locations for Canada

Specifications

Gland Reference		Cable Dimensions mm			Gland Dimensions mm				
Design Reference		Size	Cable Diameter Ø (B) mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max				A/F (G)	A/C (H)
495NE-03	495NE-03V	½"- 16	3.5	8.5	½" NPT	15.5	65	25.7	28.7
495NE-04	495NE-04V	½"- 20S	8.0	11.5	½" NPT	15.5	65	27.8	31.8
495NE-05	495NE-05V	½"- 20	8.0	16.0	½" NPT	15.5	62	33	36.9
495NE-08	495NE-08V	¾" - 20	8.0	16.0	¾" NPT	16.4	62	33	36.9
495NE-10	495NE-10V	¾" - 25	11.5	21.0	¾" NPT	16.4	81	33	36.9
495NE-14	495NE-14V	1" - 25	11.5	21.0	1" NPT	19.5	81	37.5	42.2
495NE-15	495NE-15V	1" - 32	18.5	27.5	1" NPT	19.5	69	37.5	42.2
495NE-20	495NE-20V	1¼" - 32	18.5	27.5	1¼" NPT	20.5	69	47.2	52.9
495NE-21	495NE-21V	1¼" - 40	24.0	34.0	1¼" NPT	20.5	82	47.2	53.6
495NE-27	495NE-27V	1½"- 40	24.0	34.0	1½" NPT	21	82	56.4	63.1
495NE-32	495NE-32V	2" - 50	31.0	41.0	2" NPT	22	79	65	71.5
495NE-38	495NE-38V	2½" - 63	40.0	52.5	2½" NPT	32.5	113.5	80	87.4
495NE-44	495NE-44V	3"- 75S	52.5	58.0	3" NPT	33.5	78.5	98.8	109.2
495NE-45	495NE-45V	3"- 75	54.5	65.5	3" NPT	33.5	120	98.8	109.2

*NPT Threaded glands are supplied as glands only. **Other NPT sizes available upon request.

Sizes 75s and 75 shall only be used for fixed installations.
In addition the user / installer should ensure that the cables are adequately clamped.



A2EXP Ex d IIC / Ex e II
Dual Seal Cable Gland Kit (KM495 Series)

SUITABLE FOR USE WITH CIRCULAR UN-ARMOURED & BRAIDED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular unarmoured cables with extruded oversheath
- Fitted with silicone rubber low smoke, zero halogen seal
- Achieves IP66, IP68 (1 bar) and deluge proof (DTS01:1991) seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira99ATEX1086X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0069X

Service temperature range –50°C to +200°C

UL Classified in accordance with IEC 60079-0, 60079-1 and 60079-7 for use in hazardous locations

UL Listed for use in Class 1, Zone 0, 1 and 2 hazardous locations for Canada

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 cm^3
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 cm^3
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

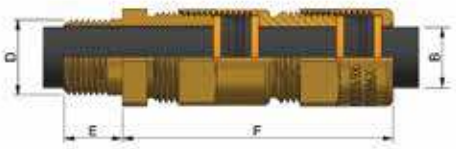
Kit comprises:

A2EX Gland
Brass Locknut
Nylon Sealing Washer
PVC Shroud
(2 per kit up to and including 25mm size)

PVC

Specifications

Gland Kit Reference				Cable Dimensions mm		Gland Dimensions mm				
Design Reference		Size	Qty per Kit	Cable Diameter Ø (B) mm		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated			Min	Max				A/F (G)	A/C (H)
KM495-51	KM495-51V	16	2	3.5	8.5	M16×1.5	15	65	22	24.9
KM495-71	KM495-71V	20SS	2	3.5	8.5	M20×1.5	15	65	22	24.9
KM495-52	KM495-52V	20S	2	8.0	11.5	M20×1.5	15	62	22	24.9
KM495-53	KM495-53V	20	2	8.0	16.0	M20×1.5	15	81	25.7	28.7
KM495-55	KM495-55V	25	2	11.5	21.0	M25×1.5	15	85	33	36.9
KM495-56	KM495-56V	32	1	18.5	27.5	M32×1.5	15	69	37.5	42.2
KM495-57	KM495-57V	40	1	24.0	34.0	M40×1.5	15	82	47.2	53.6
KM495-59	KM495-59V	50	1	31.0	41.0	M50×1.5	15	79	56.4	61.5
KM495-61	KM495-61V	63	1	40.0	52.5	M63×1.5	15	113.5	70	77.2
KM495-62	KM495-62V	75S	1	52.5	58.0	M75×1.5	15	78.5	80	87.4
KM495-63	KM495-63V	75	1	54.5	65.5	M75×1.5	15	120	80	87.4



E1WF Ex d IIC / Ex e II
Cable Gland (472AA Series)

SUITABLE FOR USE WITH ALL STEEL WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, galvanised steel wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3092X

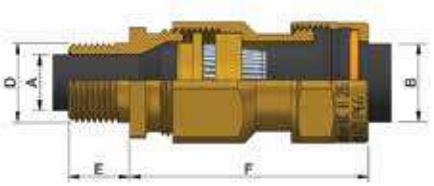
IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

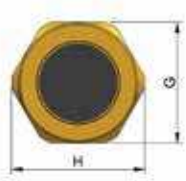
Certificate number IECEx SIR 10.0071X

Service temperature range -60°C to +90°C

Specifications

Gland Reference			Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size	Under Armour Ø (A)		Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max	Min	Max					A/F (G)	A/C (H)
472AA-51	472AA-51V	16	3.8	8.7	8.0	13.2	0.9	M16 × 1.5	15	41	23.4	26.7
472AA-71	472AA-71V	20SS	3.8	8.7	8.0	13.2	0.9	M20 × 1.5	15	41	23.4	26.7
472AA-52	472AA-52V	20S	8.0	11.8	8.0	15.8	0.9 / 1.25	M20 × 1.5	15	43	25.7	29.2
472AA-53	472AA-53V	20	11.8	14.2	11.7	20.8	0.9 / 1.25	M20 × 1.5	15	43	30.5	34.0
472AA-55	472AA-55V	25	14.0	20.1	17.0	27.2	1.25 / 1.6	M25 × 1.5	15	48	37.6	42.2
472AA-56	472AA-56V	32	19.7	26.6	23.5	33.5	1.6 / 2.0	M32 × 1.5	15	53	47.2	53.6
472AA-57	472AA-57V	40	26.6	32.4	29.0	39.9	1.6 / 2.0	M40 × 1.5	15	56	56.4	61.5
472AA-58	472AA-58V	50S	32.4	38.4	38.0	46.2	2.0 / 2.5	M50 × 1.5	15	61	60.0	66.0
472AA-59	472AA-59V	50	38.4	44.3	39.5	52.6	2.0 / 2.5	M50 × 1.5	15	61	70.1	77.2
472AA-60	472AA-60V	63S	44.3	50.3	50.0	58.9	2.5	M63 × 1.5	15	64	75.0	83.0
472AA-61	472AA-61V	63	50.3	56.2	51.3	65.3	2.5	M63 × 1.5	15	64	80.0	87.4
472AA-62	472AA-62V	75S	56.2	62.2	62.0	71.6	2.5	M75 × 1.5	15	73	90.2	99.1
472AA-63	472AA-63V	75	62.2	68.1	62.5	78.0	2.5	M75 × 1.5	15	73	98.8	109.2
472AA-64	472AA-64V	85	68.0	74.0	68.0	88.0	3.15	M80 × 2.0	20	102	115.1	126.0





E1WF(NPT) Ex d IIC / Ex e II Cable Gland (472NP Series)

SUITABLE FOR USE WITH ALL STEEL WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, galvanised steel wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3092X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0071X

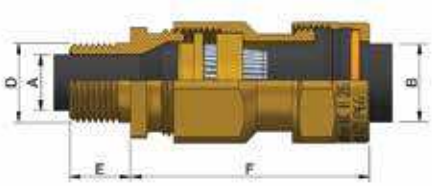
Service temperature range -60°C to +90°C

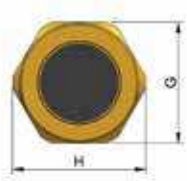
Specifications

Gland Reference		Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size	Under Armour Ø (A)		Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max	Min	Max					A/F (G)	A/C (H)
472NP-03	472NP-03V	½"- 16	3.8	8.7	8.0	13.2	0.9	½" NPT	15.5	41	23.4	26.7
472NP-04	472NP-04V	½"- 20S	8.0	8.7	8.0	15.8	0.9 / 1.25	½" NPT	15.5	43	25.7	29.2
472NP-07	472NP-07V	¾" - 20S	8.0	11.8	8.0	15.8	0.9 / 1.25	¾" NPT	16.4	43	27.9	31.8
472NP-05	472NP-05V	½"- 20	11.8	14.2	11.7	20.8	0.9 / 1.25	½" NPT	15.5	43	30.5	34.0
472NP-08	472NP-08V	¾" - 20	11.8	20.1	11.7	20.8	0.9 / 1.25	¾" NPT	16.4	43	30.5	34.0
472NP-10	472NP-10V	¾" - 25	14.0	26.6	17.0	27.2	1.25 / 1.6	¾" NPT	16.4	48	37.6	42.2
472NP-14	472NP-14V	1" - 25	14.0	32.4	17.0	27.2	1.25 / 1.6	1" NPT	19.5	48	37.6	42.2
472NP-15	472NP-15V	1" - 32	19.7	38.4	23.5	33.5	1.6 / 2.0	1" NPT	19.5	53	47.2	53.6
472NP-20	472NP-20V	1¼" - 32	19.7	44.3	23.5	33.5	1.6 / 2.0	1¼" NPT	20.5	53	47.2	53.6
472NP-21	472NP-21V	1¼" - 40	26.6	50.3	29.0	39.9	1.6 / 2.0	1¼" NPT	20.5	56	56.4	61.5
472NP-27	472NP-27V	1½" - 40	26.6	56.2	29.0	39.9	1.6 / 2.0	1½" NPT	21	56	56.4	61.5
472NP-28	472NP-28V	1½"- 50S	32.4	62.2	38.0	46.2	2.0 / 2.5	1½" NPT	21	61	60.0	66.0
472NP-31	472NP-31V	2" - 50S	32.4	68.1	38.0	46.2	2.0 / 2.5	2" NPT	22	61	65.5	72.1
472NP-32	472NP-32V	2" - 50	38.4	74.0	39.5	52.6	2.0 / 2.5	2" NPT	22	61	70.1	77.2
472NP-33	472NP-33V	2" - 63S	44.3	68.1	50.0	58.9	2.5	2" NPT	22	64	75.0	83.0
472NP-38	472NP-38V	2½" - 63	50.3	74.0	51.3	65.3	2.5	2½" NPT	32.5	64	80.0	87.4
472NP-39	472NP-39V	2½" - 75S	56.2	68.1	62.0	71.6	2.5	2½" NPT	32.5	73	90.2	99.1
472NP-45	472NP-45V	3"- 75	62.2	74.0	62.5	78.0	2.5	3" NPT	33.5	73	98.8	109.2
472NP-47	472NP-47V	3"- 80	68.0	68.1	68.0	88.0	3.15	3" NPT	33.5	102	115.1	126.0

*NPT Threaded glands are supplied as glands only.

**Other NPT sizes available upon request.





E1WF Ex d IIC / Ex e II
Cable Gland Kit (PVC) (KCA472 Series)

SUITABLE FOR USE WITH ALL STEEL WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, galvanised steel wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3092X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0071X

Service temperature range -60°C to +90°C

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

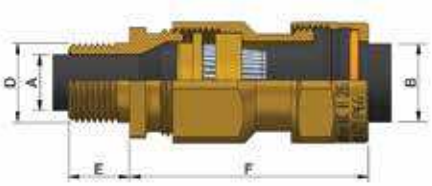
- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

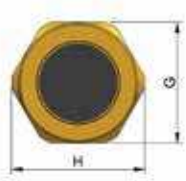
Kit comprises:

E1WF Gland
Brass Earth Tag
Brass Locknut
Nylon Sealing Washer
PVC Shroud
(2 per kit up to and including 25mm size)

Specifications

Gland Kit Reference				Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size	Qty per Kit	Under Armour Ø (A)		Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated			Min	Max	Min	Max					A/F (G)	A/C (H)
KCA472-51	KCA472-51V	16	2	3.8	8.7	8.0	13.2	0.9	M16 × 1.5	15	41	23.4	26.7
KCA472-71	KCA472-71V	20SS	2	3.8	8.7	8.0	13.2	0.9	M20 × 1.5	15	41	23.4	26.7
KCA472-52	KCA472-52V	20S	2	8.0	11.8	8.0	15.8	0.9 / 1.25	M20 × 1.5	15	43	25.7	29.2
KCA472-53	KCA472-53V	20	2	11.8	14.2	11.7	20.8	0.9 / 1.25	M20 × 1.5	15	43	30.5	34.0
KCA472-55	KCA472-55V	25	2	14.0	20.1	17.0	27.2	1.25 / 1.6	M25 × 1.5	15	48	37.6	42.2
KCA472-56	KCA472-56V	32	1	19.7	26.6	23.5	33.5	1.6 / 2.0	M32 × 1.5	15	53	47.2	53.6
KCA472-57	KCA472-57V	40	1	26.6	32.4	29.0	39.9	1.6 / 2.0	M40 × 1.5	15	56	56.4	61.5
KCA472-58	KCA472-58V	50S	1	32.4	38.4	38.0	46.2	2.0 / 2.5	M50 × 1.5	15	61	60.0	66.0
KCA472-59	KCA472-59V	50	1	38.4	44.3	39.5	52.6	2.0 / 2.5	M50 × 1.5	15	61	70.1	77.2
KCA472-60	KCA472-60V	63S	1	44.3	50.3	50.0	58.9	2.5	M63 × 1.5	15	64	75.0	83.0
KCA472-61	KCA472-61V	63	1	50.3	56.2	51.3	65.3	2.5	M63 × 1.5	15	64	80.0	87.4
KCA472-62	KCA472-62V	75S	1	56.2	62.2	62.0	71.6	2.5	M75 × 1.5	15	73	90.2	99.1
KCA472-63	KCA472-63V	75	1	62.2	68.1	62.5	78.0	2.5	M75 × 1.5	15	73	98.8	109.2
KCA472-64	KCA472-64V	85	1	68.0	74.0	68.0	88.0	3.15	M80 × 2.0	20	102	115.1	126.0





E1WF Ex d IIC / Ex e II
Cable Gland Kit (PCP) (KA472 Series)

SUITABLE FOR USE WITH ALL STEEL WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, galvanised steel wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3092X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0071X

Service temperature range -60°C to +90°C

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equioment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

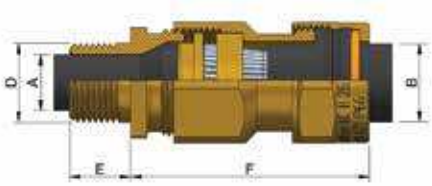
- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

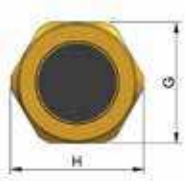
Kit comprises:

E1WF Gland
Brass Earth Tag
Brass Locknut
Nylon Sealing Washer
PCP Shroud
(2 per kit up to and including 25mm size)

Specifications

Gland Kit Reference				Cable Dimensions mm				Gland Dimensions mm					
Design Reference		Size	Qty per Kit	Under Armour Ø (A)		Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated			Min	Max	Min	Max					A/F (G)	A/C (H)
KA472-51	KA472-51V	16	2	3.8	8.7	8.0	13.2	0.9	M16 × 1.5	15	41	23.4	26.7
KA472-71	KA472-71V	20SS	2	3.8	8.7	8.0	13.2	0.9	M20 × 1.5	15	41	23.4	26.7
KA472-52	KA472-52V	20S	2	8.0	11.8	8.0	15.8	0.9 / 1.25	M20 × 1.5	15	43	25.7	29.2
KA472-53	KA472-53V	20	2	11.8	14.2	11.7	20.8	0.9 / 1.25	M20 × 1.5	15	43	30.5	34.0
KA472-55	KA472-55V	25	2	14.0	20.1	17.0	27.2	1.25 / 1.6	M25 × 1.5	15	48	37.6	42.2
KA472-56	KA472-56V	32	1	19.7	26.6	23.5	33.5	1.6 / 2.0	M32 × 1.5	15	53	47.2	53.6
KA472-57	KA472-57V	40	1	26.6	32.4	29.0	39.9	1.6 / 2.0	M40 × 1.5	15	56	56.4	61.5
KA472-58	KA472-58V	50S	1	32.4	38.4	38.0	46.2	2.0 / 2.5	M50 × 1.5	15	61	60.0	66.0
KA472-59	KA472-59V	50	1	38.4	44.3	39.5	52.6	2.0 / 2.5	M50 × 1.5	15	61	70.1	77.2
KA472-60	KA472-60V	63S	1	44.3	50.3	50.0	58.9	2.5	M63 × 1.5	15	64	75.0	83.0
KA472-61	KA472-61V	63	1	50.3	56.2	51.3	65.3	2.5	M63 × 1.5	15	64	80.0	87.4
KA472-62	KA472-62V	75S	1	56.2	62.2	62.0	71.6	2.5	M75 × 1.5	15	73	90.2	99.1
KA472-63	KA472-63V	75	1	62.2	68.1	62.5	78.0	2.5	M75 × 1.5	15	73	98.8	109.2
KA472-64	KA472-64V	85	1	68.0	74.0	68.0	88.0	3.15	M80 × 2.0	20	102	115.1	126.0





E1WF-Al Ex d IIC / Ex e II
Cable Gland (455AA Series)

SUITABLE FOR USE WITH ALL ALUMINIUM WIRE ARMOURED CABLES

Features and benefits:

- Aluminium indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, aluminium wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equioment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3092X

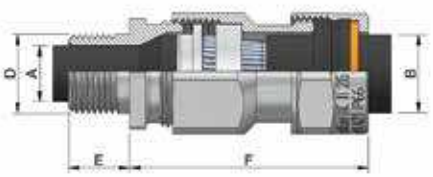
IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

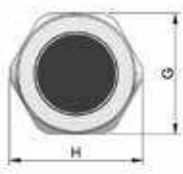
Certificate number IECEx SIR 10.0071X

Service temperature range -60°C to +90°C

Specifications

Gland Reference		Cable Dimensions mm				Gland Dimensions mm					
Design Reference	Size	Under Armour Ø (A)		Overall Ø (B)		Armour Wire Ø	Thread Length (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard		Min	Max	Min	Max					A/F (G)	A/C (H)
455AA-51	16	3.8	8.7	8.0	13.2	0.9	M16 × 1.5	15	41	23.4	26.7
455AA-71	20SS	3.8	8.7	8.0	13.2	0.9	M20 × 1.5	15	41	23.4	26.7
455AA-52	20S	8.0	11.8	8.0	15.8	0.9 / 1.25	M20 × 1.5	15	43	25.7	29.2
455AA-53	20	11.8	14.2	11.7	20.8	0.9 / 1.25	M20 × 1.5	15	43	30.5	34.0
455AA-55	25	14.0	20.1	17.0	27.2	1.25 / 1.6	M25 × 1.5	15	48	37.6	42.2
455AA-56	32	19.7	26.6	23.5	33.5	1.6 / 2.0	M32 × 1.5	15	53	47.2	53.6
455AA-57	40	26.6	32.4	29.0	39.9	1.6 / 2.0	M40 × 1.5	15	56	56.4	61.5
455AA-58	50S	32.4	38.4	38.0	46.2	2.0 / 2.5	M50 × 1.5	15	61	60.0	66.0
455AA-59	50	38.4	44.3	39.5	52.6	2.0 / 2.5	M50 × 1.5	15	61	70.1	77.2
455AA-60	63S	44.3	50.3	50.0	58.9	2.5	M63 × 1.5	15	64	75.0	83.0
455AA-61	63	50.3	56.2	51.3	65.3	2.5	M63 × 1.5	15	64	80.0	87.4
455AA-62	75S	56.2	62.2	62.0	71.6	2.5	M75 × 1.5	15	73	90.2	99.1
455AA-63	75	62.2	68.1	62.5	78.0	2.5	M75 × 1.5	15	73	98.8	109.2
455AA-64	85	68.0	74.0	68.0	88.0	3.15	M80 × 2.0	20	102	115.1	126.0





E1WF-Al Ex d IIC / Ex e II
Cable Gland Kit (KCA455 Series)

SUITABLE FOR USE WITH ALL ALUMINIUM WIRE ARMOURED CABLES

Features and benefits:

- Aluminium indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, aluminium wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Full Installation Instructions supplied

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3092X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0071X

Service temperature range -60°C to +90°C

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equioment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

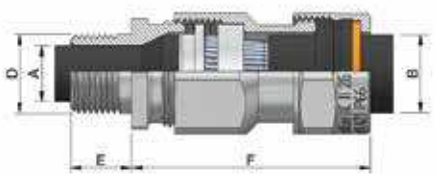
- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

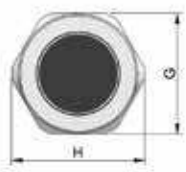
Kit comprises:

E1WF-Al Gland
Aluminium Earth Tag
Aluminium Locknut
Nylon Sealing Washer
PVC Shroud
(2 per kit up to and including 25mm size)

Specifications

Gland Kit Reference			Cable Dimensions mm				Gland Dimensions mm					
Design Reference Standard	Size	Qty per Kit	Under Armour Ø (A) Min	Under Armour Ø (A) Max	Overall Ø (B) Min	Overall Ø (B) Max	Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon A/F (G)	Hexagon A/C (H)
KCA455-51	16	2	3.8	8.7	8.0	13.2	0.9	M16 × 1.5	15	41	23.4	26.7
KCA455-71	20SS	2	3.8	8.7	8.0	13.2	0.9	M20 × 1.5	15	41	23.4	26.7
KCA455-52	20S	2	8.0	11.8	8.0	15.8	0.9 / 1.25	M20 × 1.5	15	43	25.7	29.2
KCA455-53	20	2	11.8	14.2	11.7	20.8	0.9 / 1.25	M20 × 1.5	15	43	30.5	34.0
KCA455-55	25	2	14.0	20.1	17.0	27.2	1.25 / 1.6	M25 × 1.5	15	48	37.6	42.2
KCA455-56	32	1	19.7	26.6	23.5	33.5	1.6 / 2.0	M32 × 1.5	15	53	47.2	53.6
KCA455-57	40	1	26.6	32.4	29.0	39.9	1.6 / 2.0	M40 × 1.5	15	56	56.4	61.5
KCA455-58	50S	1	32.4	38.4	38.0	46.2	2.0 / 2.5	M50 × 1.5	15	61	60.0	66.0
KCA455-59	50	1	38.4	44.3	39.5	52.6	2.0 / 2.5	M50 × 1.5	15	61	70.1	77.2
KCA455-60	63S	1	44.3	50.3	50.0	58.9	2.5	M63 × 1.5	15	64	75.0	83.0
KCA455-61	63	1	50.3	56.2	51.3	65.3	2.5	M63 × 1.5	15	64	80.0	87.4
KCA455-62	75S	1	56.2	62.2	62.0	71.6	2.5	M75 × 1.5	15	73	90.2	99.1
KCA455-63	75	1	62.2	68.1	62.5	78.0	2.5	M75 × 1.5	15	73	98.8	109.2
KCA455-64	85	1	68.0	74.0	68.0	88.0	3.15	M80 × 2.0	20	102	115.1	126.0





E1XF Ex d IIC / Ex e II
Cable Gland (473AA Series)

SUITABLE FOR USE WITH ALL BRAID WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, Braid wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equioment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3092X

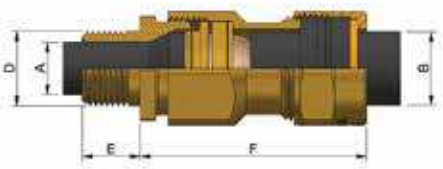
IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0071X

Service temperature range -60°C to +90°C

Specifications

Gland Reference			Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size	Under Armour Ø (A)		Overall Ø (B)		Braid Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max	Min	Max					A/F (G)	A/C (H)
473AA-51	473AA-51V	16	3.8	8.7	8.0	13.2	0.2/0.3	M16 × 1.5	15	41	23.4	26.7
473AA-71	473AA-71V	20SS	3.8	8.7	8.0	13.2	0.2/0.3	M20 × 1.5	15	41	23.4	26.7
473AA-52	473AA-52V	20S	8.0	11.8	8.0	15.8	0.2/0.3	M20 × 1.5	15	43	25.7	29.2
473AA-53	473AA-53V	20	11.8	14.2	11.7	20.8	0.2/0.3	M20 × 1.5	15	43	30.5	34.0
473AA-55	473AA-55V	25	14.0	20.1	17.0	27.2	0.3/0.45	M25 × 1.5	15	48	37.6	42.2
473AA-56	473AA-56V	32	19.7	26.6	23.5	33.5	0.3/0.45	M32 × 1.5	15	53	47.2	53.6
473AA-57	473AA-57V	40	26.6	32.4	29.0	39.9	0.3/0.45	M40 × 1.5	15	56	56.4	61.5
473AA-58	473AA-58V	50S	32.4	38.4	38.0	46.2	0.3/0.45	M50 × 1.5	15	61	60.0	66.0
473AA-59	473AA-59V	50	38.4	44.3	39.5	52.6	0.3/0.45	M50 × 1.5	15	61	70.1	77.2
473AA-60	473AA-60V	63S	44.3	50.3	50.0	58.9	0.3/0.45	M63 × 1.5	15	64	75.0	83.0
473AA-61	473AA-61V	63	50.3	56.2	51.3	65.3	0.3/0.45	M63 × 1.5	15	64	80.0	87.4
473AA-62	473AA-62V	75S	56.2	62.2	62.0	71.6	0.3/0.45	M75 × 1.5	15	73	90.2	99.1
473AA-63	473AA-63V	75	62.2	68.1	62.5	78.0	0.3/0.45	M75 × 1.5	15	73	98.8	109.2
473AA-64	473AA-64V	85	68.0	74.0	68.0	88.0	0.3/0.45	M80 × 2.0	20	102	115.1	126.0



E1XF(NPT) Ex d IIC / Ex e II Cable Gland (473NP Series)

SUITABLE FOR USE WITH ALL BRAID WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, Braid wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equioment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3092X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0071X

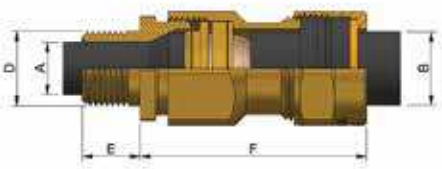
Service temperature range -60°C to +90°C

Specifications

Gland Reference		Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size	Under Armour Ø (A)		Overall Ø (B)		Braid Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max	Min	Max					A/F (G)	A/C (H)
473NP-03	473NP-03V	½"- 16	3.8	8.7	8.0	13.2	0.2/0.3	½" NPT	15.5	41	23.4	26.7
473NP-04	473NP-04V	½"- 20S	8.0	11.8	8.0	15.8	0.2/0.3	½" NPT	15.5	43	25.7	29.2
473NP-07	473NP-07V	¾" - 20S	8.0	11.8	8.0	15.8	0.2/0.3	¾" NPT	16.4	43	27.9	31.8
473NP-05	473NP-05V	½"- 20	11.8	14.2	11.7	20.8	0.2/0.3	½" NPT	15.5	43	30.5	34.0
473NP-08	473NP-08V	¾" - 20	11.8	14.2	11.7	20.8	0.2/0.3	¾" NPT	16.4	43	30.5	34.0
473NP-10	473NP-10V	¾" - 25	14.0	20.1	17.0	27.2	0.2/0.3	¾" NPT	16.4	48	37.6	42.2
473NP-14	473NP-14V	1" - 25	14.0	20.1	17.0	27.2	0.2/0.3	1" NPT	19.5	48	37.6	42.2
473NP-15	473NP-15V	1" - 32	19.7	26.6	23.5	33.5	0.3/0.45	1" NPT	19.5	53	47.2	53.6
473NP-20	473NP-20V	1¼" - 32	19.7	26.6	23.5	33.5	0.3/0.45	1¼" NPT	20.5	53	47.2	53.6
473NP-21	473NP-21V	1¼" - 40	26.6	32.4	29.0	39.9	0.3/0.45	1¼" NPT	20.5	56	56.4	61.5
473NP-27	473NP-27V	1 ½"- 40	26.6	32.4	29.0	39.9	0.3/0.45	1½" NPT	21	56	56.4	61.5
473NP-28	473NP-28V	1 ½"- 50S	32.4	38.4	38.0	46.2	0.3/0.45	1½" NPT	21	61	60.0	66.0
473NP-32	473NP-32V	2" - 50	38.4	44.3	39.5	52.6	0.3/0.45	2" NPT	22	61	70.1	77.2
473NP-33	473NP-33V	2" - 63S	44.3	50.3	50.0	58.9	0.3/0.45	2" NPT	22	64	75.0	83.0
473NP-38	473NP-38V	2½" - 63	50.3	56.2	51.3	65.3	0.3/0.45	2½" NPT	32.5	64	80.0	87.4
473NP-44	473NP-44V	3"- 75S	56.2	62.2	62.0	71.6	0.3/0.45	3" NPT	32.5	73	90.2	99.1
473NP-45	473NP-45V	3"- 75	62.2	68.1	62.5	78.0	0.3/0.45	3" NPT	33.5	73	98.8	109.2

*NPT Threaded glands are supplied as glands only.

**Other NPT sizes available upon request.



E1XF Ex d IIC / Ex e II Cable Gland Kit (PVC) (KCA473 Series)

SUITABLE FOR USE WITH ALL BRAID WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, Braid wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3092X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0071X

Service temperature range -60°C to +90°C

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equioment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

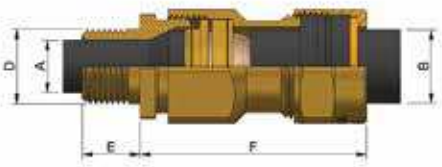
- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

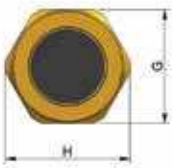
Kit comprises:

E1XF Gland
Brass Earth Tag
Brass Locknut
Nylon Sealing Washer
PVC Shroud
(2 per kit up to and including 25mm size)

Specifications

Gland Kit Reference				Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size	Qty per Kit	Under Armour Ø (A)		Overall Ø (B)		Braid Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated			Min	Max	Min	Max					A/F (G)	A/C (H)
KCA473-51	KCA473-51V	16	2	3.8	8.7	8.0	13.2	0.2/0.3	M16 × 1.5	15	41	23.4	26.7
KCA473-71	KCA473-71V	20SS	2	3.8	8.7	8.0	13.2	0.2/0.3	M20 × 1.5	15	41	23.4	26.7
KCA473-52	KCA473-52V	20S	2	8.0	11.8	8.0	15.8	0.2/0.3	M20 × 1.5	15	43	25.7	29.2
KCA473-53	KCA473-53V	20	2	11.8	14.2	11.7	20.8	0.2/0.3	M20 × 1.5	15	43	30.5	34.0
KCA473-55	KCA473-55V	25	2	14.0	20.1	17.0	27.2	0.3/0.45	M25 × 1.5	15	48	37.6	42.2
KCA473-56	KCA473-56V	32	1	19.7	26.6	23.5	33.5	0.3/0.45	M32 × 1.5	15	53	47.2	53.6
KCA473-57	KCA473-57V	40	1	26.6	32.4	29.0	39.9	0.3/0.45	M40 × 1.5	15	56	56.4	61.5
KCA473-58	KCA473-58V	50S	1	32.4	38.4	38.0	46.2	0.3/0.45	M50 × 1.5	15	61	60.0	66.0
KCA473-59	KCA473-59V	50	1	38.4	44.3	39.5	52.6	0.3/0.45	M50 × 1.5	15	61	70.1	77.2
KCA473-60	KCA473-60V	63S	1	44.3	50.3	50.0	58.9	0.3/0.45	M63 × 1.5	15	64	75.0	83.0
KCA473-61	KCA473-61V	63	1	50.3	56.2	51.3	65.3	0.3/0.45	M63 × 1.5	15	64	80.0	87.4
KCA473-62	KCA473-62V	75S	1	56.2	62.2	62.0	71.6	0.3/0.45	M75 × 1.5	15	73	90.2	99.1
KCA473-63	KCA473-63V	75	1	62.2	68.1	62.5	78.0	0.3/0.45	M75 × 1.5	15	73	98.8	109.2





E1XF Ex d IIC / Ex e II Cable Gland Kit (PCP) (KA473 Series)

SUITABLE FOR USE WITH ALL BRAID WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, Braid wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3092X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0071X

Service temperature range -60°C to +90°C

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equioment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

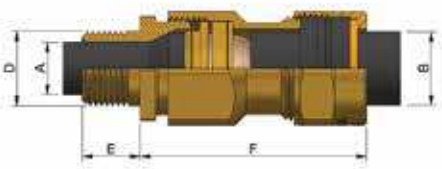
- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Kit comprises:

E1XF Gland
Brass Earth Tag
Brass Locknut
Nylon Sealing Washer
PCP Shroud
(2 per kit up to and including 25mm size)

Specifications

Gland Kit Reference				Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size	Qty per Kit	Under Armour Ø (A)		Overall Ø (B)		Braid Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated			Min	Max	Min	Max					A/F (G)	A/C (H)
KA473-51	KA473-51V	16	2	3.8	8.7	8.0	13.2	0.2/0.3	M16 × 1.5	15	41	23.4	26.7
KA473-71	KA473-71V	20SS	2	3.8	8.7	8.0	13.2	0.2/0.3	M20 × 1.5	15	41	23.4	26.7
KA473-52	KA473-52V	20S	2	8.0	11.8	8.0	15.8	0.2/0.3	M20 × 1.5	15	43	25.7	29.2
KA473-53	KA473-53V	20	2	11.8	14.2	11.7	20.8	0.2/0.3	M20 × 1.5	15	43	30.5	34.0
KA473-55	KA473-55V	25	2	14.0	20.1	17.0	27.2	0.3/0.45	M25 × 1.5	15	48	37.6	42.2
KA473-56	KA473-56V	32	1	19.7	26.6	23.5	33.5	0.3/0.45	M32 × 1.5	15	53	47.2	53.6
KA473-57	KA473-57V	40	1	26.6	32.4	29.0	39.9	0.3/0.45	M40 × 1.5	15	56	56.4	61.5
KA473-58	KA473-58V	50S	1	32.4	38.4	38.0	46.2	0.3/0.45	M50 × 1.5	15	61	60.0	66.0
KA473-59	KA473-59V	50	1	38.4	44.3	39.5	52.6	0.3/0.45	M50 × 1.5	15	61	70.1	77.2
KA473-60	KA473-60V	63S	1	44.3	50.3	50.0	58.9	0.3/0.45	M63 × 1.5	15	64	75.0	83.0
KA473-61	KA473-61V	63	1	50.3	56.2	51.3	65.3	0.3/0.45	M63 × 1.5	15	64	80.0	87.4
KA473-62	KA473-62V	75S	1	56.2	62.2	62.0	71.6	0.3/0.45	M75 × 1.5	15	73	90.2	99.1
KA473-63	KA473-63V	75	1	62.2	68.1	62.5	78.0	0.3/0.45	M75 × 1.5	15	73	98.8	109.2



E1W-XL Ex d IIC / Ex e II
Cable Gland (474SW Series)

UNIVERSAL GLAND SUITABLE FOR USE WITH STEEL WIRE ARMOUR, BRAID WIRE ARMOURED AND LEAD SHEATHED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, galvanised steel wire armour cables with extruded polymeric bedding and oversheath
- Suitable for circular, Braid wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP67 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Continuity Connection for Lead Inner sheathed cables
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available

Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equioment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3093X

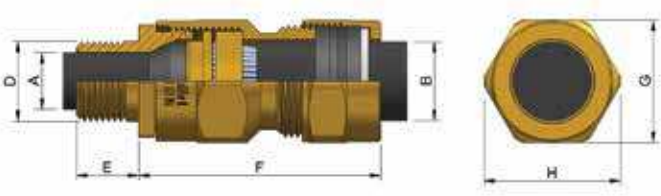
IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0070X

Service temperature range -60°C to +90°C

Specifications

Gland Reference		Cable Dimensions mm									Gland Dimensions mm				
Design Reference		Size	Under Armour Ø (A)		Overall Ø (B)		Armour Wire Ø	Braid Armour Wire Ø	Lead Sheath Ø		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max	Min	Max			Min	Max				A/F (G)	A/C (H)
474SW-71	474SW-71V	20SS	3.8	8.7	8.0	13.2	0.9	0.2/0.3	3.0	8.0	M20 x 1.5	15	41	23.4	26.7
474SW-52	474SW-52V	20S	8.0	11.8	8.0	15.8	0.9/1.25	0.2/0.3	4.0	12.0	M20 x 1.5	15	43	25.7	29.2
474SW-53	474SW-53V	20	11.8	14.2	11.7	20.8	0.9/1.25	0.2/0.3	7.0	14.0	M20 x 1.5	15	43	30.5	34.0
474SW-55	474SW-55V	25	14.0	20.1	17.0	27.2	1.25/1.6	0.2/0.45	10.0	20.0	M25 x 1.5	15	48	37.6	42.2
474SW-56	474SW-56V	32	19.7	26.6	23.5	33.5	1.6/2.0	0.3/0.45	15.0	26.0	M32 x 1.5	15	53	47.2	53.6
474SW-57	474SW-57V	40	26.6	32.4	29.0	39.9	1.6/2.0	0.3/0.45	20.0	32.0	M40 x 1.5	15	56	56.4	61.5
474SW-58	474SW-58V	50S	32.4	38.4	38.0	46.2	2.0/2.5	0.3/0.45	24.0	38.0	M50 x 1.5	15	61	60.0	66.0
474SW-59	474SW-59V	50	38.4	44.3	39.5	52.6	2.0/2.5	0.3/0.45	29.0	44.0	M50 x 1.5	15	61	70.1	77.2
474SW-60	474SW-60V	63S	44.3	50.3	50.0	58.9	2.5	0.3/0.45	34.0	50.0	M63 x 1.5	15	64	75.0	83.0
474SW-61	474SW-61V	63	50.3	56.2	51.3	65.3	2.5	0.3/0.45	42.0	56.0	M63 x 1.5	15	64	80.0	87.4
474SW-62	474SW-62V	75S	56.2	62.2	62.0	71.6	2.5	0.3/0.45	49.0	62.0	M75 x 1.5	15	73	90.2	99.1
474SW-63	474SW-63V	75	62.2	68.1	62.5	78.0	2.5	0.3/0.45	55.0	68.0	M75 x 1.5	15	73	98.8	109.2
474SW-64	474SW-64V	85	68.0	74.0	68.0	88.0	3.2	0.3/0.45	63.0	72.0	M85 x 2	20	102	115.1	126.0



E1W-XL (NPT) Ex d IIC / Ex e II Cable Glands (474NP Series)

UNIVERSAL GLAND SUITABLE FOR USE WITH STEEL WIRE ARMOUR, BRAID WIRE ARMOURED AND LEAD SHEATHED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, galvanised steel wire armour cables with extruded polymeric bedding and oversheath
- Suitable for circular, Braid wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP67 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Continuity Connection for Lead Inner sheathed cables
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

May be used in:

- Zones 1 & 2 with Ex e II equipment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3093X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0070X

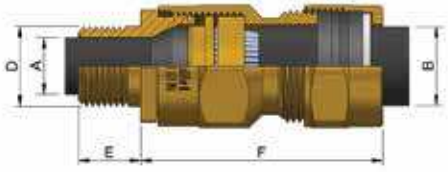
Service temperature range -60°C to +90°C

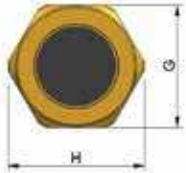
Specifications

Gland Reference			Cable Dimensions mm								Gland Dimensions mm				
Design Reference		Size	Under Armour Ø (A)		Overall Ø (B)		Armour Wire Ø	Braid Armour Wire Ø	Lead Sheath Ø		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max	Min	Max			Min	Max				A/F (G)	A/C (H)
474NP-03	474NP-03V	½" - 20SS	3.8	8.7	8.0	13.2	0.9	0.2/0.3	3.0	8.0	½" NPT	15.5	41	23.4	26.7
474NP-04	474NP-04V	½" - 20S	8.0	11.8	8.0	15.8	0.9/1.25	0.2/0.3	4.0	12.0	½" NPT	15.5	43	25.7	29.2
474NP-07	474NP-07V	¾" - 20S	8.0	11.8	8.0	15.8	0.9/1.25	0.2/0.3	4.0	12.0	¾" NPT	16.4	43	27.9	31.8
474NP-05	474NP-05V	½" - 20	11.8	14.2	11.7	20.8	0.9/1.25	0.2/0.3	7.0	14.0	½" NPT	15.5	43	30.5	34.0
474NP-08	474NP-08V	¾" - 20	11.8	14.2	11.7	20.8	0.9/1.25	0.2/0.3	7.0	14.0	¾" NPT	16.4	43	30.5	34.0
474NP-10	474NP-10V	¾" - 25	14.0	20.1	17.0	27.2	1.25/1.6	0.2/0.45	10.0	20.0	¾" NPT	16.4	48	37.6	42.2
474NP-14	474NP-14V	1" - 25	14.0	20.1	17.0	27.2	1.25/1.6	0.2/0.45	10.0	20.0	1" NPT	19.5	48	37.6	42.2
474NP-15	474NP-15V	1" - 32	19.7	26.6	23.5	33.5	1.6/2.0	0.3/0.45	15.0	26.0	1" NPT	19.5	53	47.2	53.6
474NP-20	474NP-20V	1¼" - 32	19.7	26.6	23.5	33.5	1.6/2.0	0.3/0.45	15.0	26.0	1¼" NPT	20.5	53	47.2	53.6
474NP-21	474NP-21V	1¼" - 40	26.6	32.4	29.0	39.9	1.6/2.0	0.3/0.45	20.0	32.0	1¼" NPT	20.5	56	56.4	61.5
474NP-27	474NP-27V	1½"- 40	26.6	32.4	29.0	39.9	1.6/2.0	0.3/0.45	20.0	32.0	1½" NPT	21	56	56.4	61.5
474NP-28	474NP-28V	1½"- 50S	32.4	38.4	38.0	46.2	2.0/2.5	0.3/0.45	24.0	38.0	1½" NPT	21	61	60.0	66.0
474NP-31	474NP-31V	2" - 50S	32.4	38.4	38.0	46.2	2.0/2.5	0.3/0.45	24.0	38.0	2" NPT	22	61	65.5	72.1
474NP-32	474NP-32V	2" - 50	38.4	44.3	39.5	52.6	2.0/2.5	0.3/0.45	29.0	44.0	2" NPT	22.0	61	70.1	77.2
474NP-33	474NP-33V	2" - 63S	44.3	50.3	50.0	58.9	2.5	0.3/0.45	34.0	50.0	2" NPT	22	64	75.0	83.0
474NP-38	474NP-38V	2½" - 63	50.3	56.2	51.3	65.3	2.5	0.3/0.45	42.0	56.0	2½" NPT	32.5	64	80.0	87.4
474NP-39	474NP-39V	2½" - 75S	56.2	62.2	62.0	71.6	2.5	0.3/0.45	49.0	62.0	2½" NPT	32.5	73	90.2	99.1
474NP-45	474NP-45V	3" - 75	62.2	68.1	62.5	78.0	2.5	0.3/0.45	55.0	68.0	3" NPT	33.5	73	98.8	109.2
474NP-47	474NP-47V	3" - 85	68.0	74.0	68.0	88.0	3.2	0.3/0.45	63.0	72.0	3" NPT	33.5	102	115.1	126.0

*NPT Threaded glands are supplied as glands only.

**Other NPT sizes available upon request.





E1W-XL Ex d IIC / Ex e II
Cable Gland Kit (KA474 Series)

UNIVERSAL GLAND SUITABLE FOR USE WITH STEEL WIRE ARMOUR, BRAID WIRE ARMOURED AND LEAD SHEATHED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular, galvanised steel wire armour cables with extruded polymeric bedding and oversheath
- Suitable for circular, Braid wire armour cables with extruded polymeric bedding and oversheath
- Achieves IP67 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Continuity Connection for Lead Inner sheathed cables
- Inner PCP seal grips cable bedding and provides additional ingress protection
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira 02ATEX3093X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

Certificate number IECEx SIR 10.0070X

Service temperature range -60°C to +90°C

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equioment
- Zones 2 with Ex nA II equipment
- Zone 21 & 22 with Ex tD A21

Where the cable is effectively filled, may also be used in:

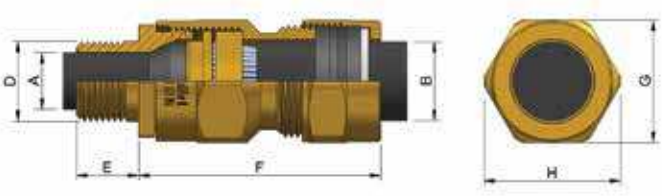
- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Kit comprises:

E1W-XL Gland
Brass Earth Tag
Brass Locknut
Nylon Sealing Washer
PCP Shroud
(2 per kit up to and including 25mm size)

Specifications

Gland Kit Reference				Cable Dimensions mm								Gland Dimensions mm				
Design Reference		Size	Qty per Kit	Under Armour Ø (A)		Overall Ø (B)		Armour Wire Ø	Braid Armour Wire Ø	Lead Sheath Ø		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated			Min	Max	Min	Max			Min	Max				A/F (G)	A/C (H)
KA474-71	KA474-71V	20SS	2	3.8	8.7	8.0	13.2	0.9	0.2/0.3	3.0	8.0	M20 x 1.5	15	41	23.4	26.7
KA474-52	KA474-52V	20S	2	8.0	11.8	8.0	15.8	0.9/1.25	0.2/0.3	4.0	12.0	M20 x 1.5	15	43	25.7	29.2
KA474-53	KA474-53V	20	2	11.8	14.2	11.7	20.8	0.9/1.25	0.2/0.3	7.0	14.0	M20 x 1.5	15	43	30.5	34.0
KA474-55	KA474-55V	25	2	14.0	20.1	17.0	27.2	1.25/1.6	0.2/0.45	10.0	20.0	M25 x 1.5	15	48	37.6	42.2
KA474-56	KA474-56V	32	1	19.7	26.6	23.5	33.5	1.6/2.0	0.3/0.45	15.0	26.0	M32 x 1.5	15	53	47.2	53.6
KA474-57	KA474-57V	40	1	26.6	32.4	29.0	39.9	1.6/2.0	0.3/0.45	20.0	32.0	M40 x 1.5	15	56	56.4	61.5
KA474-58	KA474-58V	50S	1	32.4	38.4	38.0	46.2	2.0/2.5	0.3/0.45	24.0	38.0	M50 x 1.5	15	61	60.0	66.0
KA474-59	KA474-59V	50	1	38.4	44.3	39.5	52.6	2.0/2.5	0.3/0.45	29.0	44.0	M50 x 1.5	15	61	70.1	77.2
KA474-60	KA474-60V	63S	1	44.3	50.3	50.0	58.9	2.5	0.3/0.45	34.0	50.0	M63 x 1.5	15	64	75.0	83.0
KA474-61	KA474-61V	63	1	50.3	56.2	51.3	65.3	2.5	0.3/0.45	42.0	56.0	M63 x 1.5	15	64	80.0	87.4
KA474-62	KA474-62V	75S	1	56.2	62.2	62.0	71.6	2.5	0.3/0.45	49.0	62.0	M75 x 1.5	15	73	90.2	99.1
KA474-63	KA474-63V	75	1	62.2	68.1	62.5	78.0	2.5	0.3/0.45	55.0	68.0	M75 x 1.5	15	73	98.8	109.2
KA474-64	KA474-64V	85	1	68.0	74.0	68.0	88.0	3.2	0.3/0.45	63.0	72.0	M85 x 2	20	102	115.1	126.0



Excel Plus Ex d IIC / Ex e II
Deluge Proof Cable Gland (493AB Series)

UNIVERSAL GLAND SUITABLE FOR USE WITH BRAID, TAPE AND STEEL WIRE ARMOURED CABLES.

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular cables with braid, tape or wire armour and extruded polymeric bedding & oversheath
- Achieves IP67 and deluge proof (DTS01:1991) seal onto cable and to enclosure with sealing washer supplied or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Diaphragm inner seal compatible with soft bedding materials that may be subject to 'cold-flow'
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Nickel plated versions also available

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira01ATEX1032X

Service temperature range –20°C to +90°C

CSA certified Ex d IIC & Ex e II, CSA Enclosure Type 4X, AEx d IIC & AEx e II, NEMA 4X

May be used in:

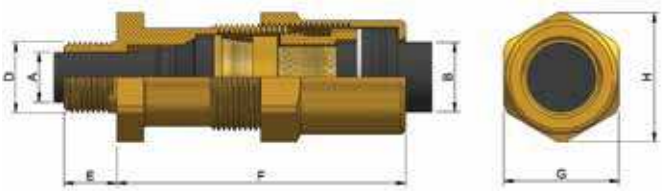
- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 cm^3
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 cm^3
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Specifications

Gland Reference			Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size	Under Armour Ø (A)		Overall Ø (B)		Max Armour Thickness	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max	Min	Max					A/F (G)	A/C (H)
493AB-51	493AB-51V	16	4	9	8	16	1.25	M16 × 1.5	15	73	25.7	28.7
493AB-71	493AB-71V	20SS	4	9	8	16	1.25	M20 × 1.5	15	73	25.7	28.7
493AB-52	493AB-52V	20S	7	12	9	16	1.25	M20 × 1.5	15	68	27.8	31.8
493AB-53	493AB-53V	20	8	14.4	11.5	21	1.25	M20 × 1.5	15	76	33	36.9
493AB-55	493AB-55V	25	10.5	20.2	18.5	27.5	1.6	M25 × 1.5	15	76	37.6	42.2
493AB-56	493AB-56V	32	15.5	26.5	21	34	2	M32 × 1.5	15	86	47.2	53.6
493AB-57	493AB-57V	40	23	32.5	31	41.5	2	M40 × 1.5	15	90	56.4	61.5
493AB-59	493AB-59V	50	28.5	44.5	36	52.5	2.5	M50 × 1.5	15	111	70	77.2
493AB-61	493AB-61V	63	44	56.5	50	65.5	2.5	M63 × 1.5	15	112	80	87.4
493AB-63	493AB-63V	75	53	68.5	59	78	2.5	M75 × 1.5	15	130	98.8	109.2



Excel Plus (NPT) Ex d IIC / Ex e II
Deluge Proof Cable Gland (493NE Series)

UNIVERSAL GLAND SUITABLE FOR USE WITH BRAID, TAPE AND STEEL WIRE ARMOURED CABLES.

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular cables with braid, tape or wire armour and extruded polymeric bedding & oversheath
- Achieves IP67 and deluge proof (DTS01:1991) seal onto cable and to enclosure with sealing washer supplied or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Diaphragm inner seal compatible with soft bedding materials that may be subject to 'cold-flow'
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Nickel plated versions also available

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira01ATEX1032X

Service temperature range –20°C to +90°C

CSA certified Ex d IIC & Ex e II, CSA Enclosure Type 4X, AEx d IIC & AEx e II, NEMA 4X

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

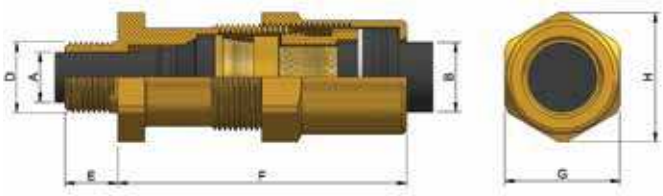
Where the cable is effectively filled, may also be used in:

- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 cm³
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 cm³
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

Specifications

Gland Reference		Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size	Under Armour Ø (A)		Overall Ø (B)		Max Armour Thickness	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated		Min	Max	Min	Max					A/F (G)	A/C (H)
493NE-03	493NE-03V	½" - 16	4	9	8	16	1.25	½"NPT	15.5	73	25.7	28.7
493NE-06	493NE-06V	¾" - 20SS	4	9	8	16	1.25	¾" NPT	16.4	73	27.9	32.1
493NE-04	493NE-04V	½" - 20S	7	12	9	16	1.25	½" NPT	15.5	68	27.8	31.8
493NE-07	493NE-07V	¾" - 20S	7	12	9	16	1.25	¾" NPT	16.4	68	27.8	31.8
493NE-08	493NE-08V	¾" - 20	8	14.4	11.5	21	1.25	¾" NPT	16.4	76	33	36.9
493NE-14	493NE-14V	1" - 25	10.5	20.2	18.5	27.5	1.6	1" NPT	19.5	76	37.6	42.2
493NE-20	493NE-20V	1¼" - 32	15.5	26.5	21	34	2	1¼" NPT	20.5	86	47.2	53.6
493NE-27	493NE-27V	1½" - 40	23	32.5	31	41.5	2	1½" NPT	21	90	56.4	63.1
493NE-32	493NE-32V	2" - 50	28.5	44.5	36	52.5	2.5	2" NPT	22	111	70	77.2
493NE-38	493NE-38V	2½" - 63	44	56.5	50	65.5	2.5	2½" NPT	32.5	112	80	87.4
493NE-45	493NE-45V	3" - 75	53	68.5	59	78	2.5	3" NPT	33.5	130	98.8	109.2

*NPT Threaded glands are supplied as glands only. **Other NPT sizes available upon request.



Excel Plus Ex d IIC / Ex e II
Deluge Proof Cable Gland Kit (KA493 Series)

UNIVERSAL GLAND SUITABLE FOR USE WITH BRAID, TAPE AND STEEL WIRE ARMOURED CABLES.

Features and benefits:

- Brass indoor and outdoor cable gland for use in hazardous areas
- Suitable for circular cables with braid, tape or wire armour and extruded polymeric bedding & oversheath
- Achieves IP67 and deluge proof (DTS01:1991) seal onto cable and to enclosure with sealing washer supplied or thread sealant
- Three part armour lock provides mechanical cable retention and electrical continuity
- Diaphragm inner seal compatible with soft bedding materials that may be subject to 'cold-flow'
- Suitable for most climatic conditions – weatherproof, waterproof and deluge proof
- Nickel plated versions also available

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira01ATEX1032X

Service temperature range –20°C to +90°C

CSA certified Ex d IIC & Ex e II, CSA Enclosure Type 4X, AEx d IIC & AEx e II, NEMA 4X

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zones 21 & 22 with Ex tD II equipment

Where the cable is effectively filled, may also be used in:

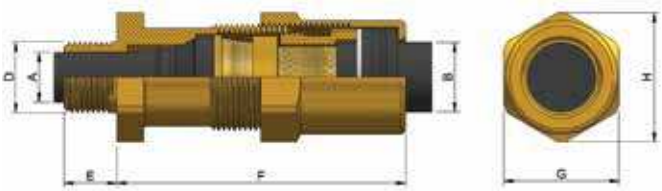
- Zones 1 & 2 with Ex d IIC equipment not containing a source of ignition & with a volume less than 2000 cm^3
- Zones 1 & 2 with Ex d IIA & Ex d IIB equipment not containing a source of ignition & with any volume
- Zone 1 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with a volume less than 2000 cm^3
- Zone 2 with Ex d IIA & Ex d IIB equipment containing a source of ignition & with any volume
- Zone 2 with Ex nR II equipment

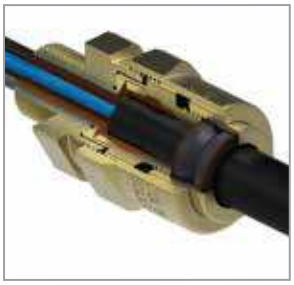
Kit comprises:

Excel Plus Gland
Brass Earth Tag
Brass Locknut
Nylon Sealing Washer
PVC Shroud
(2 per kit up to and including 25mm size)

Specifications

Gland Kit Reference				Cable Dimensions mm					Gland Dimensions mm				
Design Reference		Size	Qty per Kit	Under Armour Ø (A)		Overall Ø (B)		Max Armour Thickness	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated			Min	Max	Min	Max					A/F (G)	A/C (H)
KA493-51	KA493-51V	16	2	4	9	8	16	1.25	M16 × 1.5	15	73	25.7	28.7
KA493-71	KA493-71V	20SS	2	4	9	8	16	1.25	M20 × 1.5	15	73	25.7	28.7
KA493-52	KA493-52V	20S	2	7	12	9	16	1.25	M20 × 1.5	15	68	27.8	31.8
KA493-53	KA493-53V	20	2	8	14.4	11.5	21	1.25	M20 × 1.5	15	76	33	36.9
KA493-55	KA493-55V	25	2	10.5	20.2	18.5	27.5	1.6	M25 × 1.5	15	76	37.6	42.2
KA493-56	KA493-56V	32	1	15.5	26.5	21	34	2	M32 × 1.5	15	86	47.2	53.6
KA493-57	KA493-57V	40	1	23	32.5	31	41.5	2	M40 × 1.5	15	90	56.4	61.5
KA493-59	KA493-59V	50	1	28.5	44.5	36	52.5	2.5	M50 × 1.5	15	111	70	77.2
KA493-61	KA493-61V	63	1	44	56.5	50	65.5	2.5	M63 × 1.5	15	112	80	87.4
KA493-63	KA493-63V	75	1	53	68.5	59	78	2.5	M75 × 1.5	15	130	98.8	109.2





Barr-A Ex d IIC Cable Gland (424TA Series)

SUITABLE FOR USE WITH CIRCULAR UNARMOURED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in Zone 1 and Zone 2 hazardous areas
- Suitable for circular unarmoured cables with extruded oversheath
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Provides mechanical cable retention
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex d IIA, B & C equipment with any volume
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zone 2 with Ex nR II equipment
- Zones 21 & 22 with Ext d A21

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira04ATEX1080X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

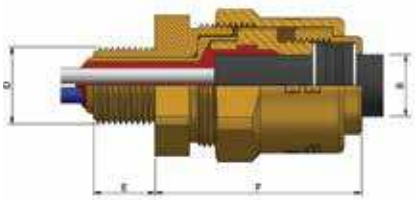
Certificate number IECEx SIR 10.0072X

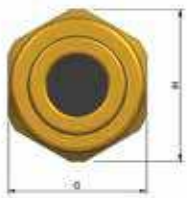
Service temperature range –60°C to +90°C

Specifications

Gland Reference				Cable Dimensions mm				Gland Dimensions mm				
Design Reference		Size		Max. Dia. Over Conductors	Max. No. of Conductors	Overall Ø (B)		Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated	Metric	NPT			Min	Max				A/F (G)	A/C (H)
424TA-53	424TA-53V	20		11.0	30	8.9	15.7	M20 × 1.5	15	56	36	40
424TA-55	424TA-55V	25		16.0	42	13.0	19.3	M25 × 1.5	15	59	42.4	48
424TA-56	424TA-56V	32		22.1	60	17.0	25.4	M32 × 1.5	15	59	47.2	53.6
424TA-57	424TA-57V	40		28.2	100	24.1	30.0	M40 × 1.5	15	63	56.4	61.5
424TA-59	424TA-59V	50		37.1	200	29.0	41.9	M50 × 1.5	15	66	70.1	77.2
424TA-61	424TA-61V	63		48.4	400	40.9	52.8	M63 × 1.5	15	69	80	87.4
424TA-63	424TA-63V	75		58.6	400	49.8	59.9	M75 × 1.5	15	80	98.8	109.2
424TA-64	424TA-64V	85		65.8	400	58.9	73.9	M85 × 2	20	83	106.2	116.8
424TA-03	424TA-03V		½" - 20	11.0	30	8.9	15.7	½" NPT	21.9	56	36	40
424TA-05	424TA-05V		¾" - 25	16.0	42	13.0	19.3	¾" NPT	22.2	59	42.4	48
424TA-06	424TA-06V		1" - 32	22.1	60	17.0	25.4	1" NPT	27.5	59	47.2	53.6
424TA-07	424TA-07V		1¼" - 40	28.2	100	24.1	30.0	1¼" NPT	28.1	63	56.4	61.5
424TA-09	424TA-09V		2" - 50	37.1	200	29.0	41.9	2" NPT	29.4	66	70.1	77.2
424TA-11	424TA-11V		2½" - 63	48.4	400	40.9	52.8	2½" NPT	43.4	69	80	87.4
424TA-13	424TA-13V		3" - 75	58.6	400	49.8	59.9	3" NPT	45.0	80	98.8	109.2
424TA-14	424TA-14V		3" - 85	65.8	400	58.9	73.9	3" NPT	45.0	83	106.2	116.8

*Other NPT sizes available upon request.





Barr-W Ex d IIC
Cable Gland (424TW Series)

SUITABLE FOR USE WITH STEEL WIRE ARMOURED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in Zone 1 and Zone 2 hazardous areas
- Suitable for circular, galvanised steel single wire armour cables with extruded polymeric oversheath and extruded or taped bedding
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Provides mechanical cable retention and electrical continuity through the armour wire termination
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex d IIA, B & C equipment with any volume
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zone 2 with Ex nR II equipment
- Zones 21 & 22 with Extd A21

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira04ATEX1080X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

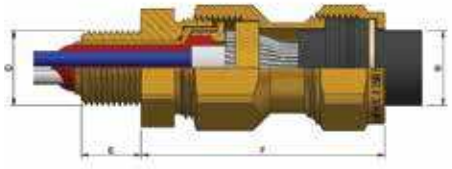
Certificate number IECEx SIR 10.0072X

Service temperature range –60°C to +90°C

Specifications

Gland Reference				Cable Dimensions mm						Gland Dimensions mm				
Design Reference		Size		Max. Dia. Over Conductors	Max. No. of Conductors	Inner Sheath Ø		Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated	Metric	NPT			Min	Max	Min	Max					A/F (G)	A/C (H)
424TW-52	424TW-52V	20S		11.0	30	—	11.5	8.0	15.8	0.9 / 1.4	M20 × 1.5	15	67	30.5	34
424TW-53	424TW-53V	20		11.0	30	—	12.5	11.7	20.8	0.9 / 1.4	M20 × 1.5	15	64	30.5	34
424TW-55	424TW-55V	25		16.0	42	11.5	18.0	17.0	27.2	1.25 / 1.6	M25 × 1.5	15	65	37.6	42.2
424TW-56	424TW-56V	32		22.1	60	17.0	25.0	19.0	33.5	1.6 / 2.0	M32 × 1.5	15	77	47.3	53.6
424TW-57	424TW-57V	40		28.2	100	24.0	31.5	26.5	39.9	1.6 / 2.0	M40 × 1.5	15	77	56.4	61.5
424TW-59	424TW-59V	50		37.1	200	30.0	41.5	36.0	52.6	2.0 / 2.5	M50 × 1.5	15	84	70.1	77.2
424TW-61	424TW-61V	63		48.4	400	40.0	54.0	46.5	65.3	2.5	M63 × 1.5	15	90	80	87.4
424TW-63	424TW-63V	75		58.6	400	53.0	65.5	58.0	78.0	2.5 / 3.15	M75 × 1.5	15	96	98.8	109.2
424TW-64	424TW-64V	85		65.8	400	60.0	74.0	68.0	88.0	2.5 / 3.15	M85 × 2	20	108	115	126
424TW-02	424TW-02V		½" - 20S	11.0	30	—	11.5	8.0	15.8	0.9 / 1.4	½" NPT	21.9	67	30.5	34
424TW-03	424TW-03V		½" - 20	11.0	30	—	12.5	11.7	20.8	0.9 / 1.4	½" NPT	21.9	64	30.5	34
424TW-05	424TW-05V		¾" - 25	16.0	42	11.5	18.0	17.0	27.2	1.25 / 1.6	¾" NPT	22.2	65	37.6	42.2
424TW-06	424TW-06V		1" - 32	22.1	60	17.0	25.0	19.0	33.5	1.6 / 2.0	1" NPT	27.5	77	47.3	53.6
424TW-07	424TW-07V		1¼" - 40	28.2	100	24.0	31.5	26.5	39.9	1.6 / 2.0	1¼" NPT	28.1	77	56.4	61.5
424TW-09	424TW-09V		2" - 50	37.1	200	30.0	41.5	36.0	52.6	2.0 / 2.5	2" NPT	29.4	84	70.1	77.2
424TW-11	424TW-11V		2½" - 63	48.4	400	40.0	54.0	46.5	65.3	2.5	2½" NPT	43.4	90	80	87.4
424TW-13	424TW-13V		3" - 75	58.6	400	53.0	65.5	58.0	78.0	2.5 / 3.15	3" NPT	45.0	96	98.8	109.2
424TW-14	424TW-14V		3" - 85	65.8	400	60.0	74.0	68.0	88.0	2.5 / 3.15	3" NPT	45.0	108	115	126

*Other NPT sizes available upon request.



Barr-X Ex d IIC
Cable Gland (424TX Series)

SUITABLE FOR USE WITH BRAID ARMOURED CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in Zone 1 and Zone 2 hazardous areas
- Suitable for circular, wire braid armour cables with extruded polymeric oversheath and extruded or taped bedding
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Provides mechanical cable retention and electrical continuity through the braid wire termination
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex d IIA, B & C equipment with any volume
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zone 2 with Ex nR II equipment
- Zones 21 & 22 with Extd A21

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira04ATEX1080X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

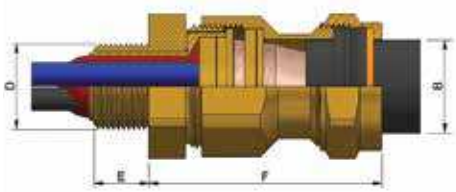
Certificate number IECEx SIR 10.0072X

Service temperature range –60°C to +90°C

Specifications

Gland Reference				Cable Dimensions mm						Gland Dimensions mm					
Design Reference		Size		Max. Dia. Over Conductors	Max. No. of Conductors	Inner Sheath Ø		Overall Ø (B)		Braid Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated	Metric	NPT			Min	Max	Min	Max					A/F (G)	A/C (H)
424TX-52	424TX-52V	20S		11.0	30	—	11.5	8.0	15.8	0.2 / 0.3	M20 × 1.5	15	67	30.5	34
424TX-53	424TX-53V	20		11.0	30	—	12.5	11.7	20.8	0.2 / 0.3	M20 × 1.5	15	64	30.5	34
424TX-55	424TX-55V	25		16.0	42	11.5	18.0	17.0	27.2	0.2 / 0.45	M25 × 1.5	15	65	37.6	42.2
424TX-56	424TX-56V	32		22.1	60	17.0	25.0	19.0	33.5	0.3 / 0.45	M32 × 1.5	15	77	47.3	53.6
424TX-57	424TX-57V	40		28.2	100	24.0	31.5	26.5	39.9	0.3 / 0.45	M40 × 1.5	15	77	56.4	61.5
424TX-59	424TX-59V	50		37.1	200	30.0	41.5	36.0	52.6	0.3 / 0.45	M50 × 1.5	15	84	70.1	77.2
424TX-61	424TX-61V	63		48.4	400	40.0	54.0	46.5	65.3	0.3 / 0.45	M63 × 1.5	15	90	80	87.4
424TX-63	424TX-63V	75		58.6	400	53.0	65.5	58.0	78.0	0.3 / 0.45	M75 × 1.5	15	96	98.8	109.2
424TX-64	424TX-64V	85		65.8	400	60.0	74.0	68.0	88.0	0.3 / 0.45	M85 × 2	20	108	115	126
424TX-02	424TX-02V		½" -20S	11.0	30	—	11.5	8.0	15.8	0.2 / 0.3	½" NPT	21.9	67	30.5	34
424TX-03	424TX-03V		½" -20	11.0	30	—	12.5	11.7	20.8	0.2 / 0.3	½" NPT	21.9	64	30.5	34
424TX-05	424TX-05V		¾" -25	16.0	42	11.5	18.0	17.0	27.2	0.2 / 0.45	¾" NPT	22.2	65	37.6	42.2
424TX-06	424TX-06V		1" -32	22.1	60	17.0	25.0	19.0	33.5	0.3 / 0.45	1" NPT	27.5	77	47.3	53.6
424TX-07	424TX-07V		1¼" - 40	28.2	100	24.0	31.5	26.5	39.9	0.3 / 0.45	1¼" NPT	28.1	77	56.4	61.5
424TX-09	424TX-09V		2" - 50	37.1	200	30.0	41.5	36.0	52.6	0.3 / 0.45	2" NPT	29.4	84	70.1	77.2
424TX-11	424TX-11V		2½" - 63	48.4	400	40.0	54.0	46.5	65.3	0.3 / 0.45	2½" NPT	43.4	90	80	87.4
424TX-13	424TX-13V		3" - 75	58.6	400	53.0	65.5	58.0	78.0	0.3 / 0.45	3" NPT	45.0	96	98.8	109.2
424TX-14	424TX-14V		3" - 85	65.8	400	60.0	74.0	68.0	88.0	0.3 / 0.45	3" NPT	45.0	108	115	126

*Other NPT sizes available upon request.



Barr-PB Ex d IIC
Cable Gland (424TP Series)

SUITABLE FOR USE WITH FOR LEAD SHEATHED OCMA TYPE CABLES

Features and benefits:

- Brass indoor and outdoor cable gland for use in Zone 1 and Zone 2 hazardous areas
- Suitable for circular, galvanised steel single wire armour cables with extruded polymeric oversheath and Lead Inner sheat
- Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- Provides mechanical cable retention and electrical continuity through the armour wire termination
- Provides electrical continuity to the inner lead sheath
- Suitable for most climatic conditions - weatherproof and waterproof
- Standard and Nickel plated versions available
- Full Installation Instructions supplied

May be used in:

- Zones 0, 1 & 2 with Ex ia IIA, B & C equipment
- Zones 1 & 2 with Ex ib IIA, B & C equipment
- Zones 1 & 2 with Ex d IIA, B & C equipment with any volume
- Zones 1 & 2 with Ex e II equipment
- Zones 1 & 2 with Ex p II equipment
- Zone 2 with Ex nA II equipment
- Zone 2 with Ex nR II equipment
- Zones 21 & 22 with Extd A21

Technical Information:

Certified II 2GD, Ex e II & Ex d IIC under ATEX directive 94/9/EC

Atex Compliance Standards: EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1

Certificate number Sira04ATEX1080X

IECEx Compliance Standards: IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1

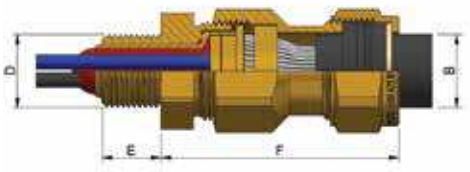
Certificate number IECEx SIR 10.0072X

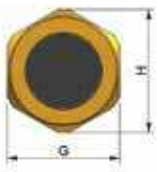
Service temperature range –60°C to +90°C

Specifications

Gland Reference				Cable Dimensions mm						Gland Dimensions mm					
Design Reference		Size		Max. Dia. Over Conductors	Max. No. of Conductors	Lead Inner Sheath Ø		Overall Ø (B)		Armour Wire Ø	Entry Thread (D)	Thread Length (E)	Protrusion Length (F)	Hexagon	
Standard	Nickel Plated	Metric	NPT			Min	Max	Min	Max					A/F (G)	A/C (H)
424TP-52	424TP-52V	20S		11.0	30	7	9.5	8.0	15.8	0.9 / 1.25	M20 × 1.5	15	67	30.5	34
424TP-53	424TP-53V	20		11.0	30	8	12.0	11.7	20.8	0.9 / 1.25	M20 × 1.5	15	64	30.5	34
424TP-85*	424TP-85V*	25		16.0	42	11	17.0	17.0	27.2	0.9 / 1.25	M25 × 1.5	15	65	37.6	42.2
424TP-55	424TP-55 V	25		16.0	42	11.0	17.0	17.0	27.2	1.25 / 1.6	M25 × 1.5	15	65	37.6	42.2
424TP-86*	424TP-86V*	32		22.1	60	15.5	23.2	19.0	33.5	1.25 / 1.6	M32 × 1.5	15	77	47.3	53.6
424TP-56	424TP-56V	32		22.1	60	15.5	23.2	19.0	33.5	1.6 / 2.0	M32 × 1.5	15	77	47.3	53.6
424TP-57	424TP-57V	40		28.2	100	22.5	29.0	26.5	39.9	1.6 / 2.0	M40 × 1.5	15	77	56.4	61.5
424TP-89*	424TP-89V*	50		37.1	200	28.5	40.0	36.0	52.6	1.6	M50 × 1.5	15	84	70.1	77.2
424TP-59	424TP-59V	50		37.1	200	28.5	40.0	36.0	52.6	2.0 / 2.5	M50 × 1.5	15	84	70.1	77.2
424TP-61	424TP-61V	63		48.4	400	39.0	51.8	46.5	65.3	2.5	M63 × 1.5	15	90	80	87.4
424TP-63	424TP-63V	75		58.6	400	51.5	64.0	58.0	78.0	2.5 / 3.15	M75 × 1.5	15	96	98.8	109.2
424TP-64	424TP-64V	85		65.8	400	63.0	70.0	68.0	88.0	2.5 / 3.15	M85 × 2	20	108	115	126
424TP-02	424TP-02V		½" -20S	11.0	30	7.0	9.5	8.0	15.8	0.9 / 1.25	½" NPT	21.9	67	30.5	34
424TP-03	424TP-03V		½" -20	11.0	30	8.0	12.0	11.7	20.8	0.9 / 1.25	½" NPT	21.9	64	30.5	34
424TP-35*	424TP-35V*		¾" -25	16.0	42	11.0	17.0	17.0	27.2	0.9 / 1.25	¾" NPT	22.2	65	37.6	42.2
424TP-05	424TP-05V		1" -25	16.0	42	11.0	17.0	17.0	27.2	1.25 / 1.6	¾" NPT	22.2	65	37.6	42.2
424TP-36*	424TP-36V*		1" -32	22.1	60	15.5	23.2	19.0	33.5	1.25 / 1.6	1" NPT	27.5	77	47.3	53.6
424TP-06	424TP-06V		1¼" - 40	22.1	60	15.5	23.2	19.0	33.5	1.6 / 2.0	1" NPT	27.5	77	47.3	53.6
424TP-07	424TP-07V		2" - 50	28.2	100	22.5	29.0	26.5	39.9	1.6 / 2.0	1¼" NPT	28.1	77	56.4	61.5
424TP-39*	424TP-39V*		2" - 50	37.1	200	28.5	40.0	36.0	52.6	1.6	2" NPT	29.4	84	70.1	77.2
424TP-09	424TP-09V		2½" - 63	37.1	200	28.5	40.0	36.0	52.6	2.0 / 2.5	2" NPT	29.4	84	70.1	77.2
424TP-11	424TP-11V		3" - 75	48.4	400	39.0	51.8	46.5	65.3	2.5	2½" NPT	43.4	90	80	87.4
424TP-13	424TP-13V		3"-75	58.6	400	51.5	64.0	58.0	78.0	2.5 / 3.15	3" NPT	45.0	96	98.8	109.2
424TP-14	424TP-14V		3"-81	65.8	400	63.0	70.0	68.0	88.0	2.5 / 3.15	3" NPT	45.0	108	115	126

* Sizes 85, 86, 89, 35, 36 & 39 are designated BARR-PBS and are designed to suit smaller diameter armour wires.





ACCESSORIES CONTENTS

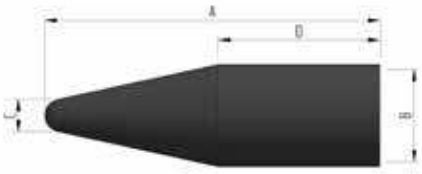
PVC Shrouds

UV Resistant PVC shrouds

ROHS COMPLIANT

Specifications

Design No.	Length A	Ø B	Ø C	Length D	Gland Fit				
					BW	A1/A2	CW / E type	A2EX	Excel
401PV-01	135	22	5	40		16 / 20ss / 20s			
401PV-02	73	24.5	10	32	20s	20		16/20ss/20s/20	
401PV-03	78	28.5	12.5	33	20				
401PV-05	123	35	18	44	25			25	
401PV-06	160	43	26.7	53	32	32			
401PV-07	120	56.5	32	37	40				
401PV-09	162	74.5	35	42	50	63s		63	
401PV-11	156	80	38	35	63	63			
401PV-12	175	89	44	40		75s / 75			
401PV-13	185	97	60	47	75s / 75				
401PV-21	108	24.5	12.7	50			16 / 20ss		
401PV-22	116	27.5	12.2	53			20s		
401PV-23	142	33.5	14	43		25	20		
401PV-25	131	40	17	68			25	32	
401PV-26	188	49	15	64		40	32	40	
401PV-27	172	56.5	32	85.5		50s / 50	40	50	
401PV-28	192	68	30	72			50s		
401PV-29	192	74.5	35	71			50		
401PV-31	195	80	38	76			63s	75s / 75	
401PV-33	234	97	60	97			75s / 75		
401PV-34	192	113.5	38	110			85		
401PV-36	302	137.5	70	137					
401PV-37	302	143.5	85	137					
401PV-52	149	27.5	7	75					20s
401PV-53	170	33.5	14	71					20
401PV-55	140	40	17	77					25
401PV-56	212	49	15	86					32
401PV-57	189	48	32	100					40
401PV-59	230	74.5	35	107					50
401PV-61	228	80	38	107					63
401PV-63	260	97	60	121					75
401PV-71	147	27.5	6	68					16 / 20ss



PCP Shrouds
Polychloroprene Shrouds

ROHS COMPLIANT

Specifications

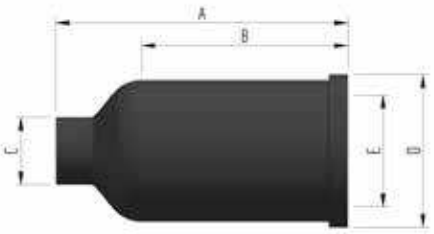
Design No.	Length A	Length B	Ø C	Ø D max	Ø E min	Gland Fit	
						A1/A2	CW / E type
401AA-02	73	56	11	25	22.5	20ss/20s/20	16/20ss/20s
401AA-03	75	57	12.4	29.5	27	25	20
401AA-05	81	61	16	41.5	36	32	25
401AA-06	93	67	22.5	46.5	41	40	32
401AA-07	98	71	28	59	53.5	50s / 50	40
401AA-09	104	76	38.5	67.5	62.5	63s	50s / 50
401AA-11	106	79	49.5	81	75.5	63 / 75s / 75	63s / 63
401AA-13	119	89	60.5	101	94	90	75s / 75
401AA-14	130	95	72	111	107		
401AA-22	85	70	7.7	29.5	27		20s Barrier
401AA-30	73	56	11	25	22.5		
401AA-31	81	61	16	41.5	36		

LSOH Shrouds
Silicone LSOH Shrouds

COMPLY WITH LU STANDARD 1-085 FOR INSTALLATION IN ALL SUB-SURFACE LOCATIONS

Specifications

Design No.	Length A	Length B	Ø C	Ø D max	Ø E min	Gland Fit		
						BW	A1/A2	CW / E type
401LSF-02	73	56	11	25	22.5	20s	20ss/20s/20	16/20ss/20s
401LSF-03	75	57	12.4	29.5	27	20	25	20
401LSF-05	81	61	16	41.5	36	25	32	25
401LSF-06	93	67	22.5	46.5	41	32	40	32
401LSF-07	98	71	28	59	53.5	40	50s / 50	40
401LSF-09	104	76	38.5	67.5	62.5	50	63s	50s / 50
401LSF-11	106	79	49.5	81	75.5	63	63 / 75s / 75	63s / 63
401LSF-13	119	89	60.5	101	94	75s / 75		75s / 75



Locknuts

Brass, Nickel Plated Brass, Steel & Aluminium

FOR SECURING EXTERNAL THREADS INTO NON-THREADED EQUIPMENT

- Brass, Nickel Plated Brass, Galvanized Steel & Aluminium designs
- Nickel Plated Brass backnuts should be used with Nickel plated Glands
- Brass backnuts recommended for most corrosive environments
- Aluminium backnuts should be used with aluminium glands
- Steel locknuts are primarily for dry, low humidity environments

Specifications

Design Reference				Thread Size		Dimensions mm		
Brass	Brass + nickel plated	Steel	Aluminium	ISO mm	NPT	Thickness	A/F	A/C
429AA-51	429AA-51V	439AA-51	459AA-51	16		3.4	22.0	24.7
429AA-53	429AA-53V	439AA-53	459AA-53	20		3.4	22.5	25.5
429AA-55	429AA-55V	439AA-55	459AA-55	25		3.4	32.0	35.8
429AA-56	429AA-56V	439AA-56	459AA-56	32		3.4	41.0	45.2
429AA-57	429AA-57V	439AA-57	459AA-57	40		4.2	50.0	56.7
429AA-59	429AA-59V	439AA-59	459AA-59	50		4.2	60.0	65.7
429AA-61	429AA-61V	439AA-61	459AA-61	63		6.6	75.0	82.7
429AA-63	429AA-63V	439AA-63	459AA-63	75		9.2	85.0	94.7
429AA-64	429AA-64V	439AA-64	459AA-64	85		9.2	98.0	108.5
429AA-65	429AA-65V			90		9.4	104.9	115.6
429AA-66	429AA-66V			100		9.4	113.8	125.6
429AA-67	429AA-67V			110		13.5	Ø 132.5	
429NP-02	429NP-02V		459NP-02		½"	6.8	27.9	
429NP-03	429NP-03V		459NP-03		¾"	6.8	37.6	
429NP-04	429NP-04V		459NP-04		1"	6.8	47.2	
429NP-05	429NP-05V		459NP-05		1 ¼"	6.8	47.2	
429NP-06	429NP-06V		459NP-06		1 ½"	6.8	56.0	
429NP-07	429NP-07V		459NP-07		2"	6.8	70.1	
429NP-08	429NP-08V		459NP-08		2 ½"	9.5	80.0	
429NP-09	429NP-09V		459NP-09		3"	9.5	110.0	
429NP-10	429NP-10V		459NP-10		3 ½"	9.5	115.0	

Insulated Adaptors Ex d

Insulated adaptors provide a method of insulating cable glands from the equipment to which they are fixed. They are used where the enclosure is not relied upon for bonding the cable to the earth, for example:

- To prevent the heating effects of circulating currents.
- To segregate low voltage and high voltage earth fault paths.

Impact Resistance:	7 Joules
Ambient Temperature:	-50°C to + 85°C
Thread Form:	Metric
Material:	Brass
Insulator:	30% glass filled nylon 12
Certified:	Exd IIC for hazardous area applications

ELECTRICAL PROPERTIES OF INSULATING MATERIAL

Dieletrical strength:	90 kV/mm
Volume resistivity:	8.6 x 10^{14} ohms/cm
Min thickness of insulator:	5mm +/- 1mm

2kV 'Wet withstand' tested

Specifications

Design Reference	Equipment Entry Thread Diam (Male)	Gland Entry Thread Diam (Female)	Total Length	Male Thread Length	Female Thread Length	Bore Diam
481AA-53	M20	M20	54	16	17	13.5
481AA-55	M25	M25	54	16	17	19
481AA-56	M32	M32	54	16	17	25
481AA-57	M40	M40	54	16	17	30
481AA-59	M50	M50	54	16	17	40.5
481AA-61	M63	M63	54	16	17	53
481AA-63	M75	M75	54	16	17	65
481AA-64	M85 x 2.0	M85 x 2.0	63	20	22	75

Earthtags
Brass & Aluminium

EARTH TAGS PROVIDE AN EARTH BOND CONNECTION BETWEEN THE GLAND AND THE EQUIPMENT

• Brass,Nickel Plated Brass & Aluminium designs should be selected to match the gland materials.

Specifications

Design Reference			Thread size (A)	Dimensions mm	
Brass	Brass + nickel plated	Aluminium		Bolt Hole Ø B	Short Circuit Rating kA
428ET-51	428ET-51V	458ET-51	16	6.7	1.8
428ET-53	428ET-53V	458ET-53	20	6.7	4.4
428ET-55	428ET-55V	458ET-55	25	6.7	4
428ET-56	428ET-56V	458ET-56	32	12.4	6.2
428ET-57	428ET-57V	458ET-57	40	13.2	9.8
428ET-59	428ET-59V	458ET-59	50	13.2	11.4
428ET-61	428ET-61V	458ET-61	63	13.2	12
428ET-63	428ET-63V	458ET-63	75	13.2	14.3
428ET-65	428ET-65V	458ET-65	85/90	13.2	
428NP-02	428NP-02V		½"	6.5	
428NP-03	428NP-03V		¾"	6.5	
428NP-04	428NP-04V		1"	12.5	
428NP-05	428NP-05V		1 ¼"	13.0	
428NP-06	428NP-06V		1 ½"	13.0	
428NP-07	428NP-07V		2"	13.0	
428NP-08	428NP-08V		2 ½"	13.0	
428NP-09	428NP-09V		3"	13.0	
428NP-10	428NP-10V		4"	14.0	

All Brass Earth Tags 1.5mm thick, Aluminium 2mm thick

IP Washers
Nylon & Fibre Sealing Washers

TO IMPROVE THE IP RATING BETWEEN THE GLAND AND THE EQUIPMENT TO VALUES GREATER THAN IP54

Specifications

Design Reference		Thread Size	Inside Ø mm	Outside Ø mm	Thickness
Nylon	Fibre				
25111001		16	16.0	22.0	1.70
25111003		20	20.0	26.0	1.70
25111005		25	25.0	32.0	1.75
25111006		32	32.0	42.0	1.75
25111007		40	40.2	52.0	2.00
25111009		50	51.0	66.5	2.00
25111011		63	63.5	84.5	2.00
25111013		75	76.0	90.0	1.50
25111014		85	85.5	100.0	1.50
25111015		90	90.5	125.0	1.50
	41702-51	16	16.2	22.0	1.50
	41702-53	20	20.3	26.5	1.50
	41702-55	25	25.3	42.0	1.50
	41702-56	32	32.3	49.5	1.50
	41702-57	40	40.4	61.2	1.50
	41702-59	50	50.4	61.5	1.50
	41702-61	63	63.5	76.7	1.50
	41702-63	75	75.5	98.5	1.50
	41702-64	85	85.5	113.8	1.50
	41702-65	90	90.5	113.8	1.50
	41702-66	100	102.0	132.3	1.50
	41702-67	110	111.0	132.3	1.50
25111016		½"	22.5	32.0	1.60
25111012		¾"	29.0	38.0	1.60
25111025		1"	34.0	45.5	1.60
25111017		1¼"	43.0	55.0	1.50
25111018		1 ½"	49.0	65.0	1.50
25111019		2"	61.0	80.0	1.50
25111020		2 ½"	75.0	90.0	1.50
25111021		3"	89.6	115.0	1.50

Anti Vibration Washers
Stainless Steel Serrated Washers

Specifications

Design Reference	Thread Size	Inside Ø mm	Outside Ø mm	Thickness
221840-53	20	21.0	33.0	4.2
221840-55	25	26.2	39.7	3.4
221840-56	32	32.3	49.5	4.4
221840-57	40	43.0	63.0	4.8
221840-59	50	52.0	80.0	4.8
221840-61	63	64.0	100.0	4.8
221840-63	75	77.0	112.0	4.8
221840-64	85	90.5	125.0	4.8
221840-65	90	90.5	125.0	4.8

Adaptors & Reducers Ex d

- FLAMEPROOF ADAPTORS AND REDUCERS - Reducers enable a gland with a smaller thread size to be installed in larger threaded opening - Adaptors enable a larger or equivalent gland to be installed in an opening with a smaller thread form
- Metric to NPT adaptors / reducers allow metric glands to be used with NPT equipment & vice versa
- Certified: Exd IIC for hazardous area applications

Specifications

Gland Adaptors (Metric)

Design Reference		Equipment Entry Thread Diam (Male)	Gland Entry Thread Diam (Female)
Standard	Nickel Plated		
427AD-71	427AD-71V	16	20
427AD-57	427AD-57V	20	25
427AD-60	427AD-60V	25	32
427AD-63	427AD-63V	32	40
427AD-66	427AD-66V	40	50
427AD-69	427AD-69V	50	68
427AD-72	427AD-72V	63	75
427AD-90	427AD-90V	75	85

Gland Reducers (Metric)

Design Reference		Equipment Entry Thread Diam (Male)	Gland Entry Thread Diam (Female)
Standard	Nickel Plated		
427AD-51	427AD-51V	20	16
427AD-54	427AD-54V	25	20
427AD-55	427AD-55V	32	20
427AD-58	427AD-58V	32	25
427AD-59	427AD-59V	40	25
427AD-61	427AD-61V	40	32
427AD-64	427AD-64V	50	40
427AD-67	427AD-67V	63	50
427AD-70	427AD-70V	75	63

Gland Adaptors (NPT / Metric)

Design Reference		Equipment Entry Thread Diam (Male)	Gland Entry Thread Diam (Female)
Standard	Nickel Plated		
427AE-03	427AE-03V	½" NPT	M20
427AE-04	427AE-04V	½" NPT	M25
427AE-08	427AE-08V	¾" NPT	M25
427AE-53	427AE-53V	M20	½" NPT
427AE-54	427AE-54V	M25	½" NPT
427AE-57	427AE-57V	M25	¾" NPT
427AE-60	427AE-60V	M32	1" NPT
427AE-64	427AE-64V	M40	1" NPT
427AE-74	427AE-74V	M40	1 ¼" NPT
427AE-65	427AE-65V	M50	1 ½" NPT

Gland Adaptors / Reducers (NPT)

Design Reference		Equipment Entry Thread Diam (Male)	Gland Entry Thread Diam (Female)
Standard	Nickel Plated		
427AN-02	427AN-02V	½" NPT	¾" NPT
427AN-04	427AN-04V	¾" NPT	1" NPT
427AN-06	427AN-06V	1" NPT	1 ¼" NPT
427AN-08	427AN-08V	1 ¼" NPT	1 ½" NPT
427AN-10	427AN-10V	1 ½" NPT	2" NPT
427AN-20	427AN-20V	¾" NPT	½" NPT
427AN-21	427AN-21V	1" NPT	½" NPT
427AN-22	427AN-22V	1" NPT	¾" NPT
427AN-24	427AN-24V	1 ¼" NPT	¾" NPT
427AN-25	427AN-25V	1 ¼" NPT	1" NPT
427AN-27	427AN-27V	1 ½" NPT	¾" NPT
427AN-28	427AN-28V	1 ½" NPT	1" NPT
427AN-29	427AN-29V	1 ½" NPT	1 ¼" NPT
427AN-32	427AN-32V	2" NPT	1" NPT
427AN-33	427AN-33V	2" NPT	1 ¼" NPT
427AN-34	427AN-34V	2" NPT	1 ½" NPT
427AN-37	427AN-37V	2 ½" NPT	1" NPT
427AN-38	427AN-38V	2 ½" NPT	1 ¼" NPT
427AN-39	427AN-39V	2 ½" NPT	1 ½" NPT
427AN-40	427AN-40V	2 ½" NPT	2" NPT
427AN-41	427AN-41V	3" NPT	½" NPT
427AN-43	427AN-43V	3" NPT	1" NPT
427AN-44	427AN-44V	3" NPT	1 ¼" NPT
427AN-45	427AN-45V	3" NPT	1 ½" NPT
427AN-46	427AN-46V	3" NPT	2" NPT
427AN-47	427AN-47V	3" NPT	2 ½" NPT

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