

## Installation Manual for Compound Barrier PXSS2K Cable Gland

### Compound Barrier PXSS2K Series of Flameproof and Increased Safety Cable Glands for Unarmoured & Braided Cables for Double Compression

#### Please read all instructions carefully before beginning the installation

CABTEK Compound Barrier PXSS2K type Cable Glands are for Indoor and Outdoor use in the appropriate Hazardous Areas with Unarmoured/Braided Cable. The seal on the outer jacket and give environmental protection to IP66/67. These glands are suitable for normal industrial environmental of temperature, humidity and vibration.

Cable Glands are made of Brass CW614N/SS316L & assembled with VMQ Silicone Rubber and Nylon Substrate.

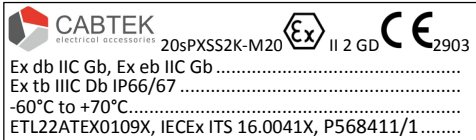
Material Compatibility under chemical corrosion or attack by aggressive substance must be considered before installation.

Cable Gland confirm to following Standards for Group II, Category -2 for Zone 1, 2 for ambient temperature range -60°C to +70°C.

**Standards Applied:** EN IEC 60079-0:2018  
EN/IEC 60079-1:2014  
EN/IEC 60079-31:2014/2013

#### Ex marking on PXSS2K type Cable Glands:

If sealed with REDELITE R



#### Installation Guide:

- Installation must be carried out by a competent electrician, skilled in cable gland installation.
- Installation should not be carried out under live conditions.
- Once installed do not dismantle except for occasional inspection. If necessary, dismantle by reverting the installation instruction. The gland is not serviceable and spare parts are not supplied separately.
- Parts of glands are not interchangeable with any other design. If manufacturer's parts are mixed, certification will be invalidated.
- The female thread in the enclosure must comply with relevant standard and do not damage threads on assemblies.
- The glands should only be used with substantially round and compact cables with correct tools.
- Installation should only be performed by a competent person using the correct torque tools. Spanners should be used for tightening. Read all instructions before beginning installation.

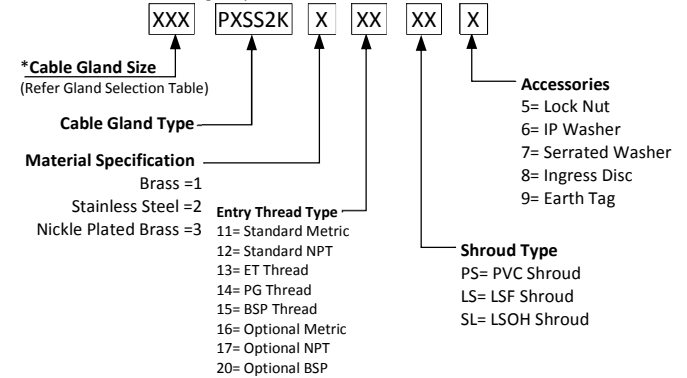
- Any modification which differs from the condition as delivered is not permitted.
- Accessories are available from CABTEK, as optional extras, to assist with fixing, sealing and earthing, Locknut, Earth Tag, Serrated Washer, Entry Thread seal (I.P.), Shroud.

#### Special Condition of Safe Use of Cable Glands:

- Cable Glands are only suitable for fixed installations.
- Cable must be effectively clamped from pulling and twisting.
- Cable Glands shall not be used in enclosure where the temperatures at the point of entry /mounting are outside the range of ambient temperatures as detailed in general description.
- The glands should only be used with substantially round cables and tightened to the rated torque with torque wrenches.
- Install in accordance with requirements of EN60079-14.
- The cable glands are provided with a sealing ring with an axial sealing height of at least 5 mm. With reference to the clearance groove, the end-user should ensure that at least five complete turns of the connector thread are made. In order to guarantee a screw depth of 8 mm, the enclosure should have a wall thickness of min. 10mm; if <10 mm, then if necessary, use a washer when cable entries are attached to the pressure-resistant enclosure.
- In the case of NPT connecting threads, the end-user must ensure that the necessary IP protection is guaranteed; this can be done using a suitable thread sealing agent.
- Installation should not be carried out under live conditions.

#### CABLE GLAND ORDERING DETAILS:

Product Code for Ordering Purpose



#### For example:

20sPXSS2K 3 11 PS 6 = PXSS2K -20s-M20 Nickle Plated Cable Gland with PVC Shroud & IP Washer  
20sPXSS2K 3 11 PS569 = PXSS2K -20s-M20 Nickle Plated Cable Gland Kit\*  
(\*Kit includes PVC Shroud, Lock Nut, IP washer & Earth Tag)

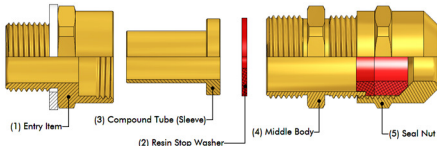
For cable gland technical details like Cable Gland Size, Cable diameter, thread and torque details given as below.

Cable Gland Selection Table for PXSS2K

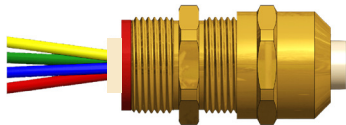
Cable Gland Size	Standard Entry Thread "T"		Entry Thread "T" Option		Thread Length "D"	Cable Dia. "A"	Cable Bedding Dia "C"	Overall Cable Dia. "B"		Protrusion Length "F"	Seal Nut		Torque (Nm)
	Metric	NPT	Metric	NPT				Min	Max		Across Flat	Across Corner	
20s16	M20x1.5	1/2"-14	M25x1.5	3/4"-14	15.00	8.60	8.60	3.10	8.60	62.00	24.00	26.20	40
20s	M20x1.5	1/2"-14	M25x1.5	3/4"-14	15.00	11.70	11.70	6.20	11.70	61.50	24.00	26.20	40
20	M20x1.5	1/2"-14	M25x1.5	3/4"-14	15.00	12.60	12.90	6.50	13.90	62.00	27.00	29.50	40
25s	M25x1.5	3/4"-14	M32x1.5	1"-11.5	15.00	17.50	17.90	9.50	15.40	72.00	36.00	39.20	45
25	M25x1.5	3/4"-14	M32x1.5	1"-11.5	15.00	17.50	17.90	11.30	19.90	72.00	36.00	39.20	45
32	M32x1.5	1"-11.5	M40x1.5	1.1/4"-11.5	15.00	23.60	23.90	17.00	26.20	75.00	41.00	45.00	55
40	M40x1.5	1.1/4"-11.5	M50x1.5	1.1/2"-11.5	15.00	30.00	30.30	23.60	32.10	72.00	50.00	55.00	70
50s	M50x1.5	1.1/2"-11.5	M63x1.5	2"-11.5	15.00	36.60	36.90	31.50	38.20	76.00	55.00	60.00	120
50	M50x1.5	2"-11.5	M63x1.5	2.1/2"-8	15.00	41.00	41.30	35.80	44.00	77.00	60.00	65.00	120
63s	M63x1.5	2"-11.5	M75x1.5	2.1/2"-8	15.00	47.90	48.40	41.70	50.00	80.00	70.00	75.00	170
63	M63x1.5	2.1/2"-8	M75x1.5	3"-8	15.00	53.70	54.00	47.50	56.00	80.00	75.00	80.00	170
75s	M75x1.5	2.1/2"-8	M90x1.5	3"-8	15.00	59.90	60.20	55.00	62.00	84.00	85.00	90.00	230
75	M75x1.5	3"-8	M90x1.5	3.1/2"-8	15.00	64.30	64.20	62.00	68.00	84.00	90.00	95.00	230

#### INSTALLATION INSTRUCTIONS FOR CABLE GLAND TYPES PXSS2K.

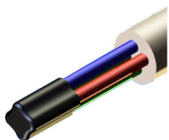
- Separate the gland components by removing the middle body (4) and seal nut assembly (5). Slacken the seal nut (5) slightly to relax the seal and pass the middle body (4)/seal nut (5) assembly over the cable, nut end first.



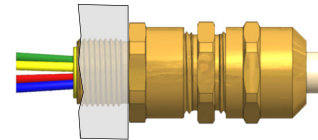
- Strip the cable sheath by a length to suit the equipment. Position the end of the sheath in line with the middle body (4) as shown below and tighten the seal nut (5) enough to hold the cable in position.



- Remove any bedding around the cable cores. If the cable cores have screens, these should be unraveled and then twisted together to form a single core. Wearing the protective gloves, mixed RapidEx resin until an even colour is achieved (The resin should not be mixed or applied at temperatures below 5°C (40°F)).
- Electrical tape must be wrapped around the tips of the cable cores. This is to ensure the cable cores are together and also to cover any sharp edges that could potentially tear the resin washer(2) during installation.



- Feed the cable carefully into the entry item (1) through the resin washer(2). Reassemble the gland and adjust the position of the cable if necessary to that the outer sheath just protrudes through the resin washer. (Use Protrusion length 'F' as a guide for positioning the cable). Tighten the outer seal nut enough to secure the gland. Make sure thread shield is in place.

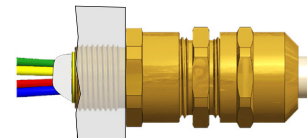


- Pass the compound tube (3) over the conductors until the end is fully located with the substrate & middle body (4). Pack resin into place until the compound tube (3) is fully filled. Once the resin has cured loosen the seal nut (5), remove the middle body (4) and seal nut assembly from the entry item (1). Fit the entry item into the equipment.

**Note:** Given Resin material in kit must be used as per given temperature hour curing time and you can not use other resin other than in kit.

Temp.	Curing Time
50° F -10° C	9:40 Hours
59° F -15° C	9:00 Hours
68° F -20° C	8:25 Hours
77° F -25° C	8:00 Hours
86° F -30° C	7:45 Hours
104° F -40° C	7:30 Hours

- Re-install the cable assembly into the entry item (1) making sure that the resin compound is not disturbed and fully tighten the middle body (4) into the entry item (1). Only using finger pressure, tighten the seal nut assembly (5) until light resistance to tightening is met.



- Position Cable correctly. Then tighten the seal nut by hand into the entry item until heavy resistance is felt or seal grip the outer sheath of cable. Then tighten the seal nut with torque wrench. For correct torque see Gland selection table.

#### Warning:

Please study carefully these instructions before installation. These glands should not be used in any application other than those mentioned here, unless CABTEK states in writing that the product is suitable for such application. CABTEK will not take any responsibility for any damage, injury or other consequential loss caused where the glands are not installed or used according to installation instructions. This leaflet is not intended to advice on the selection of cable glands. Installation must be carried out by a competent electrician, skilled in cable gland installation. Installation should not be carried out under live conditions.

#### Customer Care:

For any more information regarding please send your query to us by mail or telephone number  
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