

Installation Manual for CW Cable Gland

CW Series of Flameproof and Increased Safety Cable Glands suitable for Armoured Cables

Please read all instructions carefully before beginning the installation

CABTEK CW type Cable Glands are for indoor and Outdoor use in the appropriate Hazardous Areas with Armoured Cable. They seal on the outer jacket and give environmental protection to IP67. They 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.

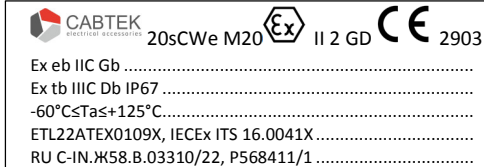
Material Compatibility under chemical corrosion or attack by aggressive substance must be considered before installation.

Cable Gland conform to following Standards for Group II, Category - 2 for Zone 1, 2, 21 & 22 for ambient temperature range -60°CsTas+125°C.

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



Ex marking on CW type Cable Gland



Installation Guide:

1. Installation must be carried out by a competent electrician, skilled in cable gland installation.
2. Installation should not be carried out under live conditions.
3. 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.
4. Parts of glands are not interchangeable with any other design. If manufacturer's parts are mixed, certification will be invalidated.
5. The female thread in the enclosure must comply with relevant standard and do not damage threads on assemblies.
6. 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.

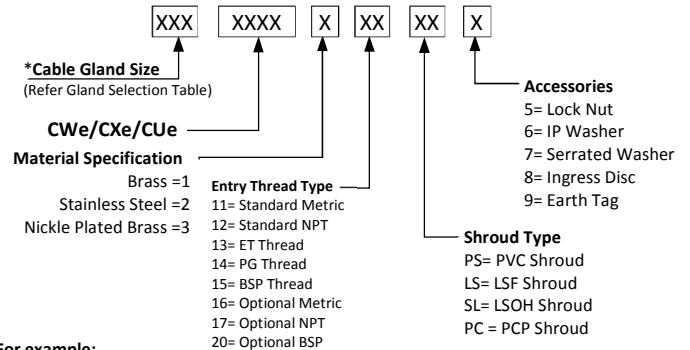
7. Any modification which differs from the condition as delivered is not permitted.
8. Accessories are available from CABTEK, as optional extras, to assist with fixing, sealing and earthing, Locknut, Earth Tag, Serrated Washer, Entry Thread seal (IP Washer), Shroud.

Special Condition of Safe Use of Cable Glands:

1. Cable Glands are only suitable for fixed installations.
2. Cable must be effectively clamped from pulling and twisting.
3. 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.
4. The glands should only be used with substantially round cables and tightened to the rated torque with torque wrenches.
5. Install in accordance with requirements of EN60079-14.
6. 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.
7. 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.
8. Installation should not be carried out under live conditions.

CABLE GLAND ORDERING DETAILS:

Product Code for Ordering Purpose



For example:

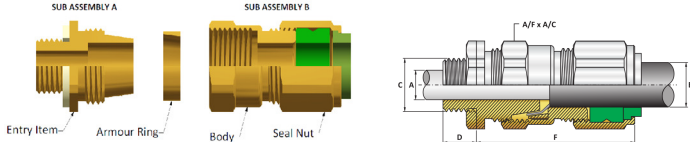
20sCW 3 11 PS 6 = CW-20s-M20 Nickle Plated Cable Gland with PVC Shroud & IP Washer
20sCW 3 11 PS569 = CW-20s-M20 Nickle Plated Cable Gland Kit*
(*Kit includes PVC Shroud, Lock Nut, IP washer & Earth Tag)

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

Cable Gland Size	Standard Entry Thread "C"			Entry Thread "C"		Option		Armoured Wire Diameter		Cable Diameter		Seal Nut		Assembly Length					
	Metric	NPT/BSP	ET	Metric	NPT	Metric	NPT/BSP	Min	Max	Min	Max	A/A'	A/C	Compressed	Uncompressed				
20s16	M20x1.5	1/2"	3/4"	PG11	15.0/20.0	M25x1.5	3/4"	0.90	0.90	0.30	1.00	8.60	6.10	13.10	24.00	26.20	38.00	46.00	25
20s	M20x1.5	1/2"	3/4"	PG13.5	15.0/20.0	M25x1.5	3/4"	0.90	1.25	0.30	1.00	11.70	9.50	15.90	24.00	26.20	36.00	46.00	25
20	M20x1.5	1/2"	3/4"	PG16	15.0/20.0	M25x1.5	3/4"	0.90	1.25	0.40	1.00	13.90	12.50	20.90	30.00	33.00	38.75	48.75	25
25s	M25x1.5	3/4"	1"	PG21	15.0/20.0	M32x1.5	1"	1.25	1.60	0.40	1.20	15.40	14.00	22.00	36.00	39.20	45.75	55.75	30
25	M25x1.5	3/4"	1"	PG21	15.0/20.0	M32x1.5	1"	1.25	1.60	0.40	1.20	19.90	19.90	26.20	36.00	39.20	45.75	55.75	30
32	M32x1.5	1"	1 1/4"	PG29	15.0/20.0	M40x1.5	1 1/4"	1.60	2.00	0.40	1.20	26.20	23.70	33.90	46.00	50.60	46.00	56.00	35
40	M40x1.5	1 1/4"	1 1/2"	PG36	15.0/20.0	M50x1.5	1 1/2"	1.60	2.00	0.40	1.60	32.10	27.90	40.40	55.00	60.00	49.50	59.50	45
50s	M50x1.5	1 1/2"	2"	PG36	15.0/20.0	M63x1.5	2"	2.00	2.50	0.40	1.60	38.20	35.20	46.70	60.00	60.00	48.25	58.25	60
50	M50x1.5	2"	2"	PG42	15.0/20.0	M63x1.5	2 1/2"	2.00	2.50	0.60	1.60	44.00	40.40	53.00	70.00	75.00	52.00	62.00	65
63s	M63x1.5	2"	2 1/2"	PG48	15.0/20.0	M75x1.5	2 1/2"	2.00	2.50	0.60	1.60	50.00	45.60	59.40	75.00	80.00	50.00	62.00	65
63	M63x1.5	2 1/2"	2 1/2"	PG48	15.0/20.0	M75x1.5	3"	2.00	2.50	0.60	1.60	56.00	54.60	65.80	80.00	85.00	52.00	64.00	75
75s	M75x1.5	2 1/2"	3"	PG54	15.0/20.0	M90x2	3"	2.00	2.50	0.60	1.60	62.00	59.00	72.00	90.00	95.00	57.00	69.00	80
75	M75x1.5	3"	3"	PG54	15.0/20.0	M90x2	3 1/2"	2.50	3.00	0.60	1.60	68.00	66.70	78.40	100.00	110.00	62.00	74.00	80
90	M90x2	3 1/2"	3 1/2"	PG60	18.0/22.0	M100x2	4"	3.00	3.50	0.80	1.60	79.00	76.20	90.30	112.00	122.00	77.00	89.00	110

INSTALLATION INSTRUCTIONS FOR CABLE GLAND TYPES CW.

It is not necessary to dismantled the cable gland assembly as shown below

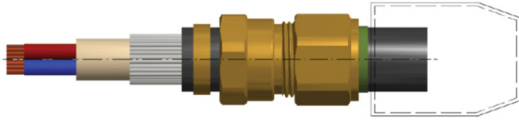


1. Prepare the cable by stripping back the cable outer sheath and armour to suit the equipment geometry. Expose the armour by stripping back the outer sheath further using the table below as a guide. If applicable remove any tapes or wrappings to expose cable inner sheath.

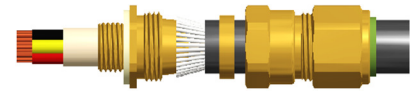
Gland Size	Cable Strip "A"	Cable Bedding "B"
20s16, 20s, 20	12mm	30
25s, 25, 32, 40	15mm	35
50s, 50, 63s, 63	18mm	40
75s to 90	20mm	45

*Dim A & B for reference, may vary on installation

2. Separate components Entry Item and Armour Ring from Sub-Assembly B. If required, fit a shroud over the cable outer sheath. Prepare the cable by removing the cable outer sheath and the braid/armour to suit the geometry of the equipment.

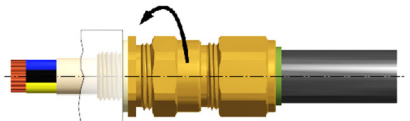


3. Locate the Armour Ring into its recess in the Main Item. Pass the cable through sub-assembly "A" until the armour engaged with the cone. Spread the armour evenly around the cone.

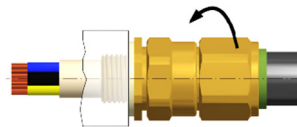


4. While continuing to push the cable forward to maintain contact between the braid armour and the Entry Item, tighten the Body by hand until the Armour Ring is felt to have engaged the braid/armour.

Hold the Entry item with a spanner and tighten the Body using a spanner until all available threads are used, the body and entry item are metal to metal and cannot be tightened further.



5. Only using finger pressure, tighten the seal nut until light resistance to tightening is met. Then either use the seal tightening guide tape or table on the rear of the page to determine how much further to tighten the seal using a spanner (using the outer seal tightening guide is recommended)



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

Tel.: + 91-76006 16887, 94277 71205

Email: info@aksharbrassind.com, Website: www.aksharbrassind.com



AKSHAR BRASS INDUSTRIES