

Installation Guide for Barrier Compound Cable Gland for Liquid Tight Connector for Metallic Flexible Hose

Please read all instructions carefully before beginning the installation

CABLTC Cable Gland suitable for Barrier Compound Cable Gland for Liquid Tight Connector for Metallic Flexible Hose

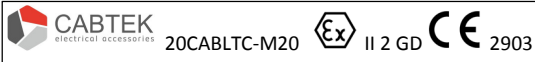
CABTEK CABLTC type Cable Glands are for Indoor and Outdoor use in the appropriate Hazardous Areas with Unarmoured Cable.

Cable Glands are made of Brass CW614N/SS316L & assembled with mixed compound. 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, 21 & 22 for ambient temperature range -60°C≤Ta≤+70°C.

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

Ex marking on CABLTC type Cable Gland



20CABLTC-M20 Ex db IIC Gb, Ex eb IIC Gb
Ex tb IIIC Db IP66/67/68
-60°C≤Ta≤+70°C.....
ETL22ATEX0109X, IECEx ITS 16.0041X.....

Installation Guide:

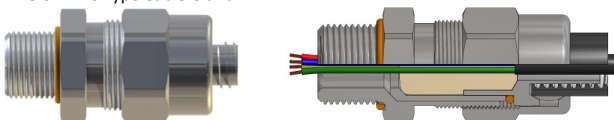
1. Installation must be carried out by a competent electrician, skilled in cable gland installation.
2. Installation should not be carried out under live conditions.
3. Once installed do not dismantle except for occasional inspection. If necessary, dismantle by reverting the installation instruction. 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.
7. 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.

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

*Cable Gland Size	Standard Entry Thread "I"		Optional Thread "I"		Entry Thread Length "C"		Max Cable Outer Sheath Dia "B"	Suitable for Conduit Pipe		Protrusion Length "D"	Cap		Maximum No. of Cores	Torque (Nm)
	Metric	NPT	Metric	NPT	Metric	NPT		ID "X"	OD "Y"		A/F	A/C		
20s	M20x1.5	1/2"-14	M25x1.5	3/4"-14	16.00	20.00	7.80	9.8 - 10.3	14.2 - 15.6	44.50	25.00	28.00	3	25
20	M20x1.5	1/2"-14	M25x1.5	3/4"-14	16.00	20.00	10.40	12.1 - 13.0	17.0 - 19.1	44.75	30.00	33.00	4	25

INSTALLATION INSTRUCTIONS FOR CABLE GLAND TYPES CABLTC

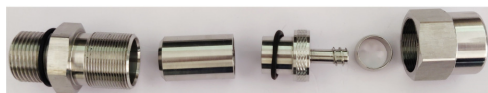
1. The CABLTC Type Cable Gland



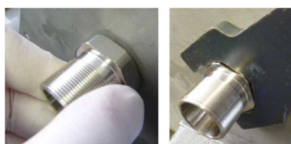
Cut conduit square and prepare cable as indicated.



3. Split gland as shown.



4. Fit Entry Body. Hand-tighten. Then, suitably secure with a wrench



5. Slide the Rear Assembly onto Conduit. Pass cable cores through the Conduit Anchor component and then screw into the conduit.



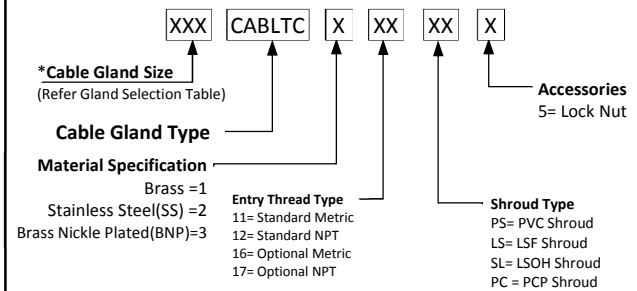
8. Any modification which differs from the condition as delivered is not permitted.
9. Accessories are available from CABTEK, as optional extras, to assist with fixing, sealing and earthing, Locknut, Earth Tag, Serrated Washer, Entry Thread seal (IP), Shroud.

Special Condition of Safe Use of Cable Glands:

1. Cable Glands are only suitable for fixed installations.
2. 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.
3. The glands should only be used with substantially round cables and tightened to the rated torque with torque wrenches.
4. Install in accordance with requirements of EN60079-14.
5. The cable glands are provided with a O-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.
6. 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.

CABLE GLAND ORDERING DETAILS:

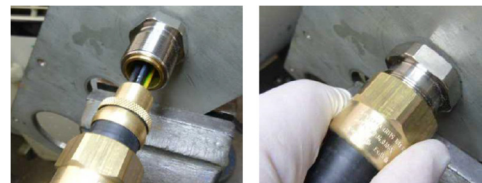
Product Code for Ordering Purpose



For example:

20sCABLTC211PS5= CABLTC-20s-M20 Stainless Steel Cable Gland with PVC Shroud & Nut

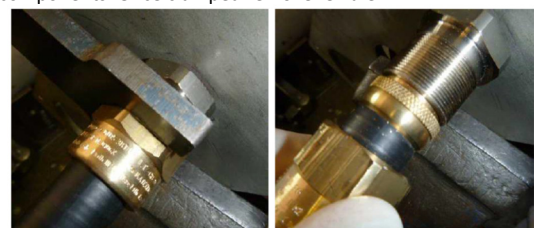
6. Pass the individual cores through Ferrule and Entry Body. Engage the Outer Cap onto the Entry Body until hand-tight. The Olive should be secured in place between the Conduit Anchor and the Ferrule components



7. Tighten Outer Cap on to the Entry Body using a wrench to the specified torque ensuring that at least the stated number of turns has been achieved. Disassemble Outer Cap to inspect Olive Seal. There should be no gap between the components. Once clamped remove ferrule



8. Disassemble Outer Cap to inspect Olive Seal. There should be no gap between the components. Once clamped remove ferrule



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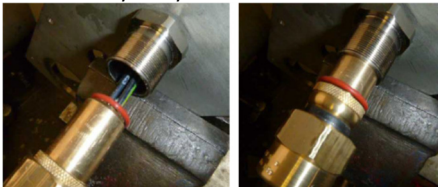
HEALTH AND SAFETY WARNING

The resin used in the compound can cause eye and skin irritation. For your personal protection, wear plastic or latex gloves while mixing and applying. The uncured compound should not be allowed to come into contact with foodstuff and disposed of safely in accordance with local regulations

9. Check compound has not passed its "Use By" date. It has a work life of about 45 minutes at 16-27°C (60-80°F), during which time it can be worked and shaped before it begins to cure. Full cure takes 24 hours at 16-27°C (60-80°F). Lower temperatures will give a longer cure time. E.g. at 3°C (37°F) full cure takes about seven days. It is recommended to mix the putty and pack the fitting at 20°C (68°F). Minimum mixing/packing temperature is 10°C. Minimum curing temperature is 3°C.
10. Trim any hardened pieces from ends of stick. Mix the compound by rolling, folding and breaking. Ease mixing by cutting large sticks in half. Fully mixed compound has a uniform yellow colour with no streaks
11. Support the conduit and cable assembly. Ensure that the Conduit Anchor is positioned so that the cable outer sheath is positioned at the bottom of the Rear Assembly Cup as indicated at Z – Z in the instructions. Splay out the cores

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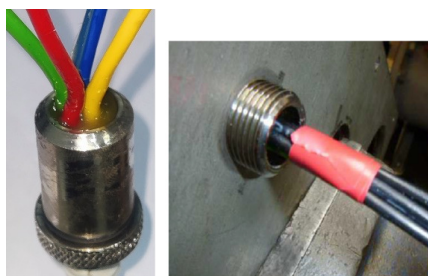
14. Pass cores through the O-ring and Entry Body. Fit O-ring over Ferrule – when the assembly is complete the O-ring should be seated on top of the Ferrule and adjacent to the Conduit Anchor. Engage Ferrule in Entry Body and screw on the Outer Cap.



15. Tighten the Outer Cap with wrench to close up the assembly



16. Slacken off Outer Cap to inspect the Cable Unit assembly. Where the cores exit the Ferrule any protruding compound must be trimmed and cleared away to ensure the compound does not foul the Entry Body. Bundle cores with cable-tie, cord or tape so they are not disturbed. Leave to cure for 4 hours when working at 21°C (70°F). Cores may be disturbed after 1 hour



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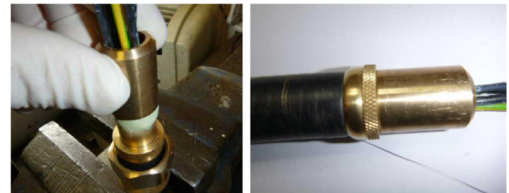
12. Starting at the middle, fill the Rear Assembly Cup by packing small amounts of rolled out compound around and between the cores. Re-straighten each core and work outwards until all gaps are filled. Pack around the outside of the outer cores. Push compound down to make sure the Rear Assembly Cup is completely filled.

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.



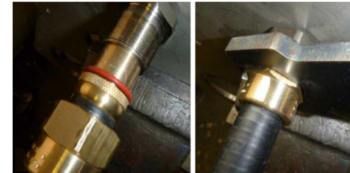
Temp.	Curing Time
50° F -10° C	9:40 Hours
59° F -15° C	9:00 Hours
68° F -20° C	8:25 Hours
77° F -25° C	8:00 Hours
86° F -30° C	7:45 Hours
104° F -40° C	7:30 Hours

13. Retrieve the Ferrule and pass it over the cores. Locate and press Ferrule onto the Rear Assembly Cup. Remove squeezed-out compound (arrow B) and ensure the Ferrule completely covers the Rear Assembly Cup



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17. Re-assemble Cable Unit to the Entry Body ensuring the O-Ring is seated correctly at the base of the ferrule – see Figure 4. Tighten Outer Cap using a wrench until it comes to an effective stop.



18. The equipment should not be energized until the compound has been left to cure for at least 4 hours when working at 21° C. See chart 'Energizing Time vs. Temperature' within the Installation Instructions for further guidance

Completed Assembly**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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