

## Installation Procedure For Aerial Cable CBT System

### Product application

This instruction details the installation procedure for the Aerial Cable CBT System.















Port Number	Feeder Cable Fibre Colour	Port Number	Feeder Cable Fibre Colour
1	Blue	7	Brown
2	Orange	8	Violet
3	Green	9	Black
4	Red	10	White
5	Grey	11	Pink
6	Yellow	12	Turquoise

### Precautions and Warnings

- ! This guide is only valid for products purchased from or approved by Prysmian Group.
- ! During this procedure all local Health & Safety statutory regulations must be adhered to.
- ! This installation should only be carried out by suitably trained competent persons.
- ! 6.0mm Cable Parameters
  - Minimum Bend Diameter (Static) – 120mm
  - Maximum Working Tension – 1000N
  - Typical Installation Tension – 150N
- ! Items 6 to 9 will only be required if the CBT Block Terminal is positioned within an underground chamber within 100m from the pole.

### Tools and materials

1. Pole/House Mounting Clamp PN: XTCSC00001	2. Helical Tension Clamp PN: XTCSC00002	3. Cable Cleat PN: XTCSC00009	4. Cable Pulley PN: XTCSC00027	5. Mini-duct PN: XTCSC00015
				
6. Steel Capping PN: XTCSC00020	7. Plastic Capping PN: XTCSC00019	8. Capping Adaptor PN: XTCSC00021	9. Cable Stocking PN: XTCSC00008	10. Cable Dispenser PN: XTCSC00025
				
11. 4/12f Drop Cable Sheath Stripper PN: XBFSC01760	12. Side Cutters PN: n/a			
				

### Pole Mounted CBT Terminal Installation

#### Step 1



Determine the preferred position for the CBT Terminal.

#### Step 2



Remove the base from the Connector housing by gently deflecting the two clips away from the base.

#### Step 3



Attach the base to the pole using the steel banding provided. Alternatively, the base can be attached to the pole using wood screws.

#### Step 4



At the CBT Terminal fit the cable into a suitable cable dispenser.

#### Step 5



Remove and fleet sufficient cable from the drum to enable the cable can be installed into the u/g joint.

#### Step 6



Re-attach the connector housing to the base. The housing is designed for either top or bottom entry of the drop cables.

#### Step 7



Secure the feeder cable down the pole using pole cleats.

#### Step 8



Install the cable through the underground network to the joint position.

#### Step 9



Fit the capping adaptor to the base of the pole.

**Step 10**



Protect the cable going up the pole with the steel or plastic capping.

**Underground Joint Chamber CBT Terminal Installation**

**Step 11**

**No Picture**

The CBT can be installed within an underground chamber. It should be secured to either the chamber wall or onto a MOBRA.



### Pre-Connectorised Drop Cable Installation

#### Step 12



At the CBT Terminal fit the Drop Cable drum into a suitable cable dispenser.

#### Step 13



Attach the Mounting Clamp to the pole at the correct position.  
**Care should be taken to ensure that the cable does not infringe the minimum ground clearance requirements under worst case conditions.**

#### Step 14



Attach a suitable pulley to the Mounting Clamp.

#### Step 15



Feed the pulling bond through the pulley at the cable dispenser pole.

#### Step 16



Attach the swivel to the cable using that cable stocking grip.

#### Step 17



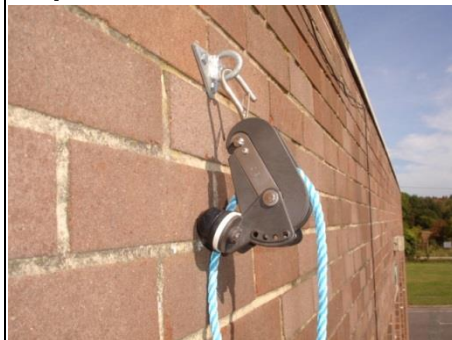
Attach the Mounting Clamp to the house at the correct position.  
**Care should be taken to ensure that the cable does not infringe the minimum ground clearance requirements under worst case conditions.**

### Step 18



Attach a suitable pulley to the Mounting Clamp.

### Step 19



Pass the pulling bond through the pulley at the remote pole/house.

### Step 20



Pull the pulling bond and cable across the span.

**Care should be taken to ensure that there is no risk to third parties during this operation.**

### Step 21



Continue to pull the cable across the span until there is enough cable left on the drum to locate the pre-connectorised end into the CBT Terminal Block.

### Step 22



Fit the helical tension clamp to the cable and mounting clamp at the cable dispenser pole.

### Step 23



Pull the cable to the required tension and fit the helical tension clamp at the pole/house.

### Step 24



At the building end fit the CBT External Customer Termination Box in a suitable position. This could be inside or outside the building.

### Step 25



Determine the length of cable required to link the tension clamp to the CBT External Customer Termination Box. Mark the cable at this point and add an extra 3m.

### Step 26



Cut the cable at this mark.

## Cable Stripping

### Step 27



Open the cutter by pulling down on the black arm.

### Step 28



Assemble the cutter around the cable at the mark made in step 24. The blades should be positioned over the groove and yellow line.

**WARNING: Failure to maintain the 90° position relative to the cable wire strength members may result in permanent damage to the stripper tool.**

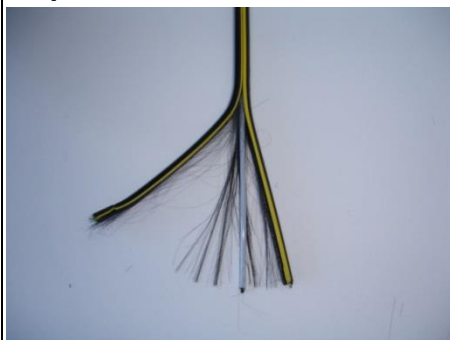
### Step 29



Pull the cutter along the cable.

**WARNING: Failure to maintain the 90° position relative to the cable wire strength members may result in permanent damage to the stripper tool.**

### Step 30



Separate the two halves of the Fibre Drop Cable sheath back to the mark made in step 25.

### Step 31



Carefully cut the two halves of the cable sheath, non-mettalic yarns and the steel wire strength members.



### Installation Of Pre-Connectorised Assembly

#### Step 32



Remove the remaining cable from the drum.

#### Step 33



Unscrew the pulling eye.

#### Step 34



Remove the clamp nut.

#### Step 35



Slide the shroud body back.

#### Step 36



Using the supplied tool remove the cap from the relevant port on the CBT. There is a number by the port for identification.

#### Step 37



Remove the adapter blanking plug.

#### Step 38



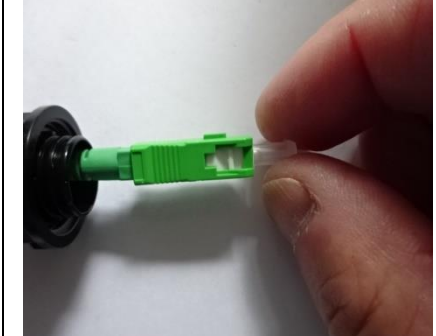
The CBT Port Cap retaining straps and those on the Pulling Eye can be removed if required.

#### Step 39



Alternatively, they can be screwed together and kept with the CBT.

#### Step 40



Remove the SC connector protective shroud.



### Step 41



Clean the connector with a lint free cloth or other suitable wipe.

### Step 42



Push SC connector into the adapter. Ensure locating the rib is facing upwards to line on top of the port.

### Step 43



Line the rib on the shroud body to rib on the port and insert the shroud into the port.

### Step 44



Tighten the shroud nut fully.

### Step 45



Tighten the clamp nut ensuring the seal is in the end of the shroud.

## CBT External Customer Termination Box Installation

### Step 46



Carefully knock out the cable entry port on the left hand side of the base. Take care to support the base when doing this.

### Step 47



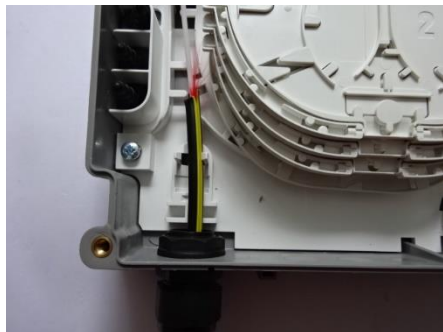
Fit 'O' Seal onto the cable gland and into annular recess in hexagonal face. Push the cable gland into port so that the 'O' Seal sits against outside face of base. Fit Locknut and tighten against inside face of base to secure it.

### Step 48



Remove the output cable knock out port.

**Step 49**



Insert the drop cable through gland and position approximately 65mm from the lowest face of the box.

**Step 50**



Apply a circumferential cut to the loose tube at the cable butt

**Step 51**



Apply a circumferential cut to the loose tube at 1m from the end of the tube.

**Step 52**



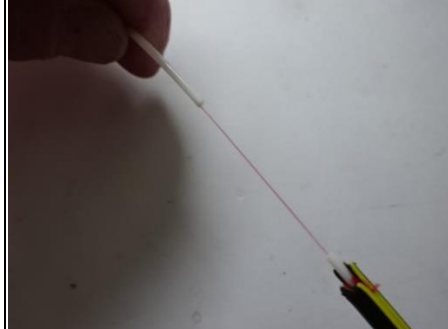
Carefully remove the tube.

**Step 53**



Clean the optical fibre.

**Step 54**



Remove the final section of the loose tube.

**Step 55**



Clean the optical fibre.

**Step 56**



Pass the optical fibre through the 6mm – 3mm connector.

**Step 57**



Fit the connector to Drop Cable.

### Step 58



Insert optical fibre through the locking tube.  
**Please Note:** The locking tube is pre-cut to the correct length

### Step 59



Fit the tube to the reducing connector.

### Step 60



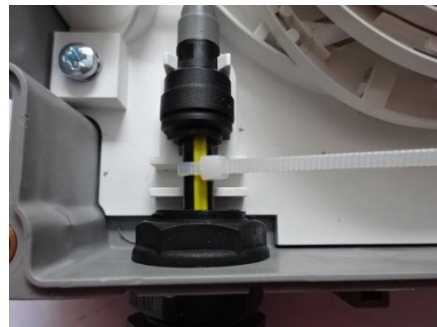
Locate the completed tube assembly into position and clip the connector into place.

### Step 61



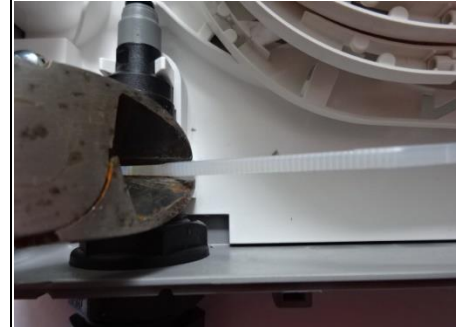
Tighten gland sealing nut.

### Step 62



Secure the cable with cable tie in position shown.

### Step 63



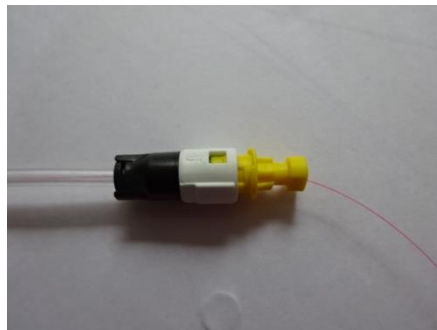
Trim the excess from the cable tie.

### Step 64



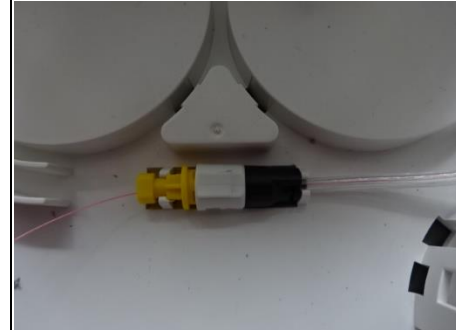
Pass the optical fibre through the connector

### Step 65



Attach the connector onto the locking tube.

### Step 66



Fit the connector into the locking clips.



### Step 67



Wrap the locking tube around the mandrels.

### Step 68



If the wrapping is done correctly there will be no excess tube.

### Step 69



Trim the output gland to the size for the outlet cable

### Step 70



Fit the output gland into the enclosure.

### Step 71



The output cable can be fed through the gland and the optical fibre spliced onto the drop cable fibre.

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