

# In Line Joint Cable Installation (ESDF4.0)

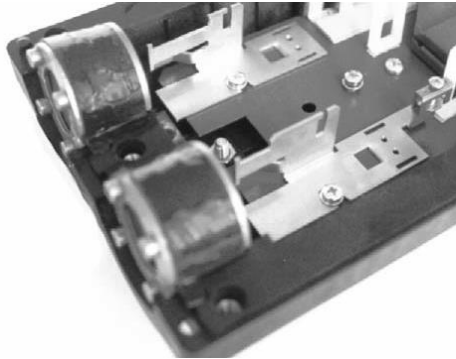
## TABLE OF CONTENT

---

CABLE PREPARATION AND INSTALLATION .....	P2
--	----

## **Cable Preparation and Installation**

### **Step 1**



The joint has four cable entry ports, and a cable entry gland must be fitted into all four cable entry ports. In cases where only two or three cables are required to be installed, blank cable entry glands must be installed into the unused ports.

Aside from the blanking gland there are three cable entry glands that can be used for the installation of cables.

- Single Cable Entry - for installation of 1 cable
- Double Cable Entry - for installation of 2 cables
- Quad Cable Entry - for installation of four cables

## Cable Preparation and Installation

### Step 2

	Seal 1 entry	Seal 2 entries	Seal 4 entries
Adaptor 1	φ 21/16		
Adaptor 2	φ 16,5/12		
Adaptor 3	φ 12,5/8	φ 12,5/8	
Adaptor 4	φ 9/6	φ 9/6	φ 9/6
Adaptor 5		φ 6,5/3,5	φ 6,5/3,5

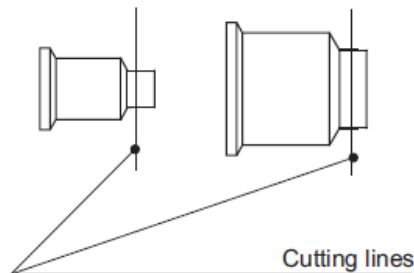
Each cable entry gland is made up of two plates which are secured together using 4 screws. Between the plates are 5 rubber seals which fit within each other.

Using the table adjacent, first determine the type of gland (1, 2 or 4 entries) and then determine the diameter of the cable being installed. Remove the adapters that are not required (shown by the shaded-out cells).

The cable must be in contact with the inner diameter of the smallest adapter.

## Cable Preparation and Installation

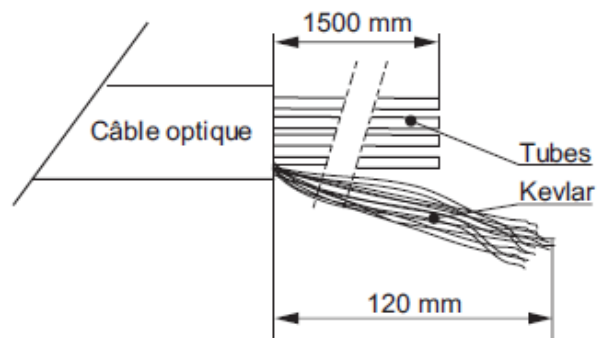
### Step 3



If necessary, cut the end of the adapters 3 and 5 to enable the entry of the cable.

## Cable Preparation and Installation

### Step 4

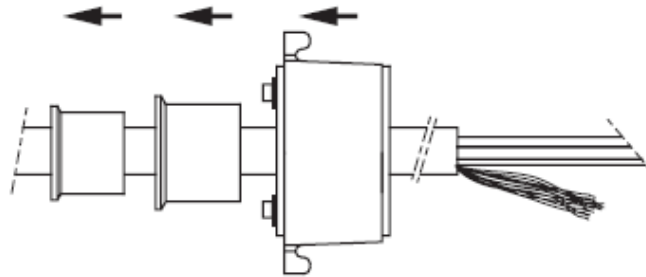


Mark the position of the cable butt at the port of the closure and strip the external sheath from the cable to expose 1500mm of the cable tubes. Cut away any excess cable length.

Cut the Kevlar yarns to 120mm from the cable butt.

## Cable Preparation and Installation

### Step 5



Slip the cable entry gland and the adapters onto the cable. Applying some grease to the cable sheath makes this operation easier.

## **Cable Preparation and Installation**

### **Step 6**

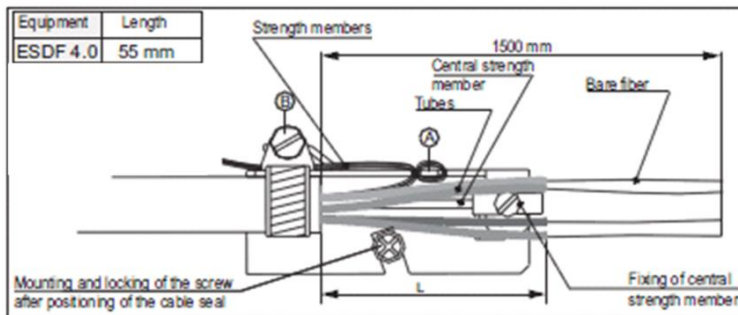
**Go to the appropriate step dependent on the type of cable entry gland being installed.**

Install the cable onto the appropriate cable clamp. Go to step 7 for a single cable entry, step 8 for a double cable entry or step 9 for a quadruple cable entry.

## Cable Preparation and Installation

### Step 7

#### Single Cable Clamp



Cut the central strength member to 55mm and secure into bracket as shown.

For the Kevlar yarns, make a loop around the tab A and feed the yarns between the cable sheath and the jubilee clip.



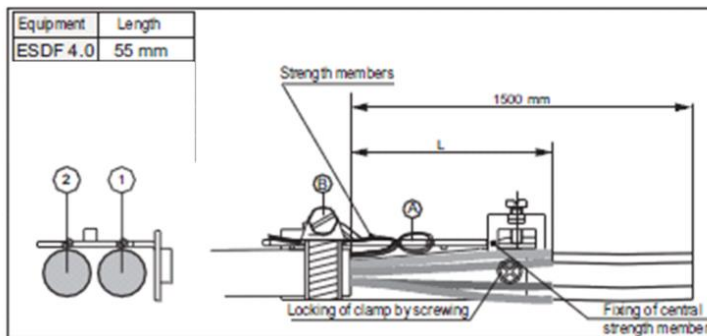
Tighten the jubilee clip around the cable sheath to secure to the bracket.



## Cable Preparation and Installation

### Step 8

#### Double Cable Clamp



Cut the central strength members to 55mm and secure into bracket as shown.

For the Kevlar yarns, make a loop around the tab A and feed the yarns between the cable sheath and the jubilee clip.

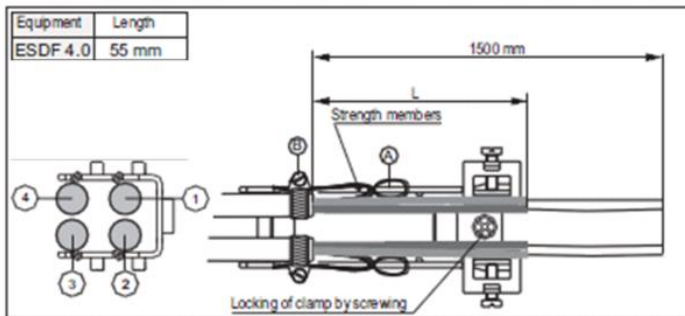


Tighten the jubilee clip around the cable sheath to secure to the bracket. Note: Mount the cable in the order shown on the drawing to the left.

## Cable Preparation and Installation

### Step 9

#### Quadruple Cable Clamp



Cut the central strength members to 55mm and secure into bracket as shown.

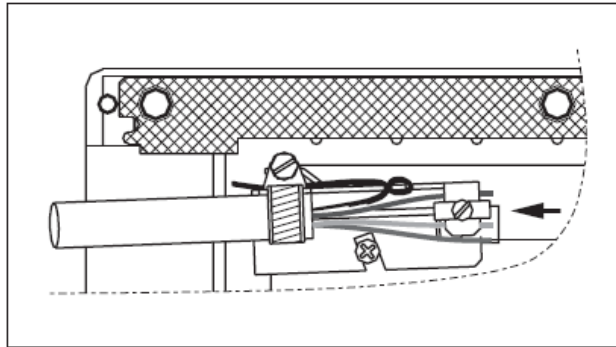
For the Kevlar yarns, make a loop around the tab A and feed the yarns between the cable sheath and the jubilee clip.



Tighten the jubilee clip around the cable sheath to secure to the bracket. Note: Mount the cable in the order shown on the drawing to the left.

## Cable Preparation and Installation

### Step 10

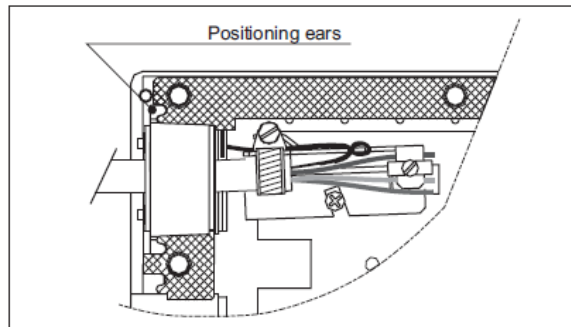


Insert the tabs of the clamping shoe on the bracket into the square holes in the joint chassis. Pull back in the direction shown in the picture to the left.

Locate the M4 screw as shown but do not fully tighten at this stage.

## Cable Preparation and Installation

### Step 11



Slip the seals along the cable and seat them into position in the closure body. Ensure that the ears on the seal fit properly within the corresponding cut-outs in the flat seal.

Fully tighten the M4 screw.

## **Cable Preparation and Installation**

### **Step 12**

Refer to IP255 for fibre routing and joint installation.

Copyright Prysmian Group - 2023 You may not copy, reprint, or reproduce in any form the content, either wholly or in part, of this Installation Guide, without the written permission of the copyright owner. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend the information within this Installation Guide without prior notice. This Installation Guide may include inaccuracies, omissions of content and of information and is not contractually valid unless specifically authorised by Prysmian Group. Property of Prysmian Group UK - Uncontrolled when printed Prysmian Cables & Systems Limited, Chickenhall Lane, Eastleigh, Hampshire, SO50 6YU, United Kingdom.

**PRYSMIAN HELPLINE: + 44 (0) 7816191633**  
[connectivity.help@prysmiangroup.com](mailto:connectivity.help@prysmiangroup.com)