



3M™

# Fibre Optic Closure 2179-CS



Fibre Optic Closure 2179-CS

The Fibre Optic Closure 2179-CS is designed and developed based on the proven 3M sealing technology. It is made of plastic molded parts and mastic sealing materials. Closing of the closure is simply done by the sliding latching mechanism. 2179-CS latching system provides short installation time and easy re-entry. There is no need for special tooling for closing and opening the closure.

## Applications

Closure is suitable for the applications up to 48 single fibres, which can cover most of the applications in the fibre distribution networks like Fibre To The Home / Fibre To The Curb (FTTH/FTTC) Underground, aerial, pedestal or direct buried applications are possible with the closure. 2179-CS has chemical and mechanical resistance for all the application areas in the fibre networks. Can be used in Butt or In-Line configuration.

## Capacity

The closure can accept cable sizes from 1,01 cm (0,4") to 2,54 cm (1"). Maximum number of cable entries is 4 in In-Line configuration. 2179-CS can be used with 3M FOT001 trays, suitable for single fibre fusion splices, as standard. 2179-CS closure also has the version that can accommodate DIN splice trays where Fibrolok or crimp protectors are used. For both tray systems it is possible to place maximum 4 trays and maximum 12 fibre slices per tray in 2179-CS.

## Kit contents

2179-CS closure kit includes all necessary parts to complete closure installation. Tray type and the number of the trays need to be selected according to the application needs. FOT001 trays can be supplied with the closure as standard. If DIN trays are required "2179-CS Closure Kit w/DIN tray bracket w/o tray" version should be selected and the DIN tray(s) & tray accessories should be ordered separately.

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## Features

- Compact in size (44,7cm x 17,52cm x 10,67cm)
- Fibre capacity up to 48 single fibres
- Accepts variety of splice/protector versions; heat shrink single fusion splice protector, crimp protector, Fibrolok™
- Proven sealing technology
- Available in complete kit (with trays + accessories)
- Sliding latch mechanism

## Benefits

- Suitable for limited space applications, too. (handholes)
- Applicable for all networks. FTTH /FTTC solutions.
- Covers different splice methods for low fibre count applications
- Wide area of usage; underground, aerial, direct buried, pedestal
- Reduced inventory
- No requirement for special tooling. Saves time and cost
- Easy application

# Specifications

## Technical characteristics

Cable strength:	40kPa, 1000N for 1min, No apparent splice case degradation happened. No leakage.
Cable compress:	100N, 1min, No apparent splice case degradation happened. No leakage.
Vibration:	40kPa A=±1.5mm, f=25Hz, 15min, No apparent splice case degradation happened. No leakage.
Cable bend:	40kPa, 150mm, ±45degree, 10Cy., No apparent splice case degradation happened. No leakage.
Cable torsion:	500mm, ±90 degree, 10Cy. No apparent splice case degradation happened. No leakage.
Rust resistance:	Metal part: salt spray for 30days, without rust
Temperature cycling.:	-40c-20C-60C, 2h ,10Cy. Then fill 60kPa air-pressure, without leakage.
Impact:	1kg,1m @-20C. No apparent splice case degradation happened. No leakage.
Immersion:	Water depth 2.5m, 30 days, without water intrusion.
Air tightness:	100kPa@Room temperature, 5 min. No apparent splice case degradation happened. No leakage.
Insulation:	Water depth 1.5m, 24hours, 15kVDC for 1min, R>20000Mohm@500VDC

Compression:	40kPa, 2000N/10cm, 1min, No apparent splice case degradation happened. No leakage.
Chemical Resistance:	40kPa, 5%HCL, 5%NaOH, 5%NaCl for 24hours. Without corrosion and leakage.

## Physical characteristics

Material:	Molded plastic
Outside dimension (LxWxH):	15.7" x 6.9"x 4.2"
Splice chamber space (LxWxH):	12"x4.7"x 3.3"
Weight (without kit):	1715g
Cable diameter:	0.4 – 1 inch
Cable port:	4 ( 2 each side )
Quantity of cables installed:	2 - 4
Maximum number of trays:	3M FOT001 Slice Trays 4 DIN trays 4
Capacity of 3M FOT001 Tray:	12 single Fusion splices / tray
Capacity of DIN tray:	Max 12 single Fusion splices / tray Max 12 single Fibrlok / tray Max 12 single Crimp splices / tray
Looping length of bare fibres:	>2 X 0.8m
Looping length of fibre with loose-tube:	>2 X 0.8m

## Ordering Information

## Ref.-No.

Fibre optic closure 2179-CS (w/o tray)	MOQ: 15 each	2179-CS/0
Fibre optic closure 2179-CS (12C w/1 tray)	MOQ: 15 each	2179-CS/1
Fibre optic closure 2179-CS (24C w/2 trays)	MOQ: 15 each	2179-CS/2
Fibre optic closure 2179-CS (36C w/3 trays)	MOQ: 15 each	2179-CS/3
Fibre optic closure 2179-CS (48C w/4 trays)	MOQ: 15 each	2179-CS/4
Closure Kit 2179-CS w/DIN tray bracket w/o tray	MOQ: 15 each	2179-CS/DIN

### Additional parts

Aerial Hanger Kit	MOQ: 15 each	2179-CS/AHK
Re-entry Accessory Kit 2180-CS	MOQ: 15 each	2180-CS/RAK
Port Accessory Kit 2179-CS	MOQ: 15 each	2179-CS/PAK
Pole Mount Accessory Kit 2179-CS	MOQ: 15 each	2179-CS/PK

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