



TENIO

Fiber Closures

COMMScope®

CommScope's fiber optic splice closures are synonymous with excellence in sealing, fiber management, ease of use and design flexibility. Building on almost 30 years of innovation and industry leadership, TENIO closures enable 30-percent faster, future-proof network deployments in 30-percent less space.

TENIO closures feature modular building blocks and combine proven fiber management hardware with a new sealing system to simplify training and reduce inventory. The closure's 100-percent mechanical, tool-less and intuitive design facilitates lower-skilled network deployments.

Full modularity of the closure platform supports a phased CAPEX network deployment scheme, reducing up-front CAPEX investment.

CommScope's superior gel-sealing technology guarantees sealing for most commonly available cable types.

Designed for use with various cable constructions (loose buffer tube and microsheath), the closures deploy in any environment (aerial, pedestal, handhole, manhole).

Advantages

- **Reduce total cost of ownership**
Tool-less, intuitive design assures rapid installation and easy on-going maintenance by less technical workforce
- **Optimize cash flow and ROI**
Modular closure platform allows phased network deployment, lower initial CAPEX expenditure
- **Fiber and cable technology independent**



TENIO closures enable 30-percent faster, future-proof network deployments in 30-percent less space.

BUILDING BLOCK 1: TENIO Cable Seal



	CABLE OUTS	DIAMETER RANGE	MAXIMUM NUMBER OF IN/OUT- LET PORTS
	2a 2b 2c	13-16 11-14 9-12	12
	3a 3b	7-10 5-8	18
	3 flat	3/5 - 6/9	18
	4	3-6	24
	5	2-4	30
	Dummy		

Superior sealing performance

- Best available mechanical seal on the market
- 20 kPa and 2 m waterhead compliant with prEN50411-2-10

Easy Installation

- 60 seconds assembly
- First fully wrap-around, 100% mechanical seal ever introduced into the market
- Installation feedback (Go/No Go trigger activation)
- Tool-less installation

Flexibility and customization

- Segments are interchangeable
- Field-installable
- Diameter range from 2 - 16 mm

BUILDING BLOCK 2: TENIO Cable Termination



Superior performance

- Best universal cable termination on the market
- Stronger than T-wraps, safer than hose clamps (no cable damage)

Easy Installation

- Fully wrap-around
- Only 1 Allen key needed
- Universal housing in closure (black inserts after segmented gel block)

Cable construction independent

- Diameter range from 2 – 16 mm
- Central/dual strength member and aramid yarn termination

BUILDING BLOCK 3: Split Dome with Edge Seal



Faster entry and re-entry

- Just 2 side latches, easily operated manually, achieving a 30% faster entry and re-entry than industry standard today

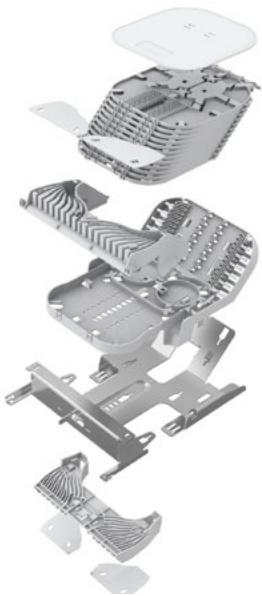
Superior quality

- Based on same materials as used for many years in FIST GCO2 and FOSC 400 products

Universal applicability

- Suited for underground, ground level and aerial use

BUILDING BLOCK 4: Fiber Management



Reduced installation time

- Optimized FIST fiber management system leading to 30% faster and more intuitive fiber routing and installation
- Up to 144 (12 x 12 fibers), 192 (8 x 24 fibers) or 288 (12 x 24 fibers) fiber splices

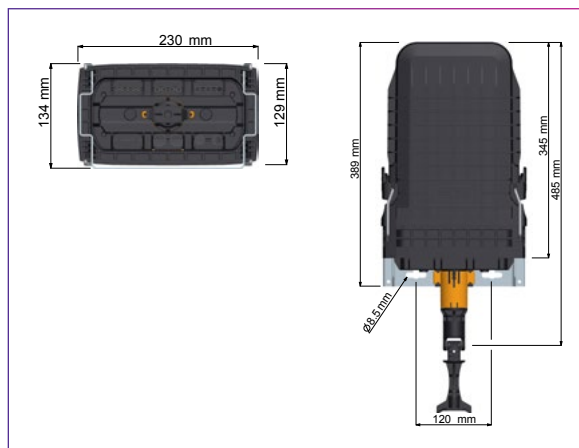
Dedicated storage locations

- Separate location for optical device storage maintains full splice capacity
- Storage basket for looped cable with tubes up to 2.4 mm in diameter
- Integrated basket for drop cable, spare fiber storage

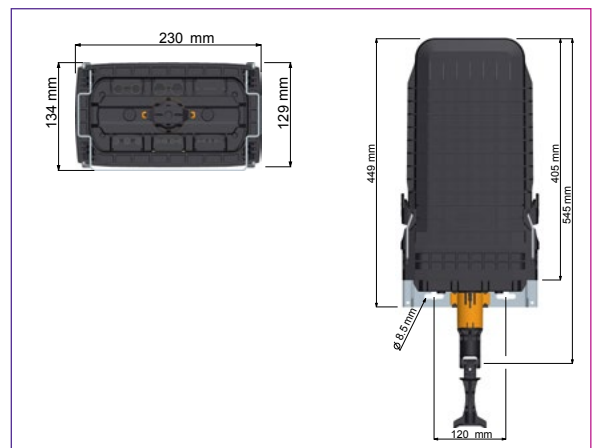
Fiber and cable technology independent

- Compatible with 652D fiber
- Minimum 1.2 m overlength storage per splice side
- Control fiber/tube grow-out for up to +20 mm

SIZES



B6 Closure



C6H closure

ORDERING

To configure a complete TENIO closure, the following items must be specified and ordered as indicated:

1. Closure

TENIO closures ship with the number of splice trays requested in the ordering number; order separate splice trays to complete unloaded or partially loaded closures.

2. Cable seals

Total number of cable seals per closure MUST equal 6.

3. Cable termination units

Order 1 cable termination unit for each cable; looped cables require 2 cable termination units.

OPTIONAL/ADDITIONAL ORDERING INFORMATION

To configure a complete TENIO closure, the following items must be specified and ordered as indicated:

Accessories

Mounting bracket: Order 1 mounting bracket per closure

External cable fixation: Order 1 external cable fixation kit per closure

Splice trays

Order separate splice trays to complete unloaded or partially loaded closures.

Patch trays

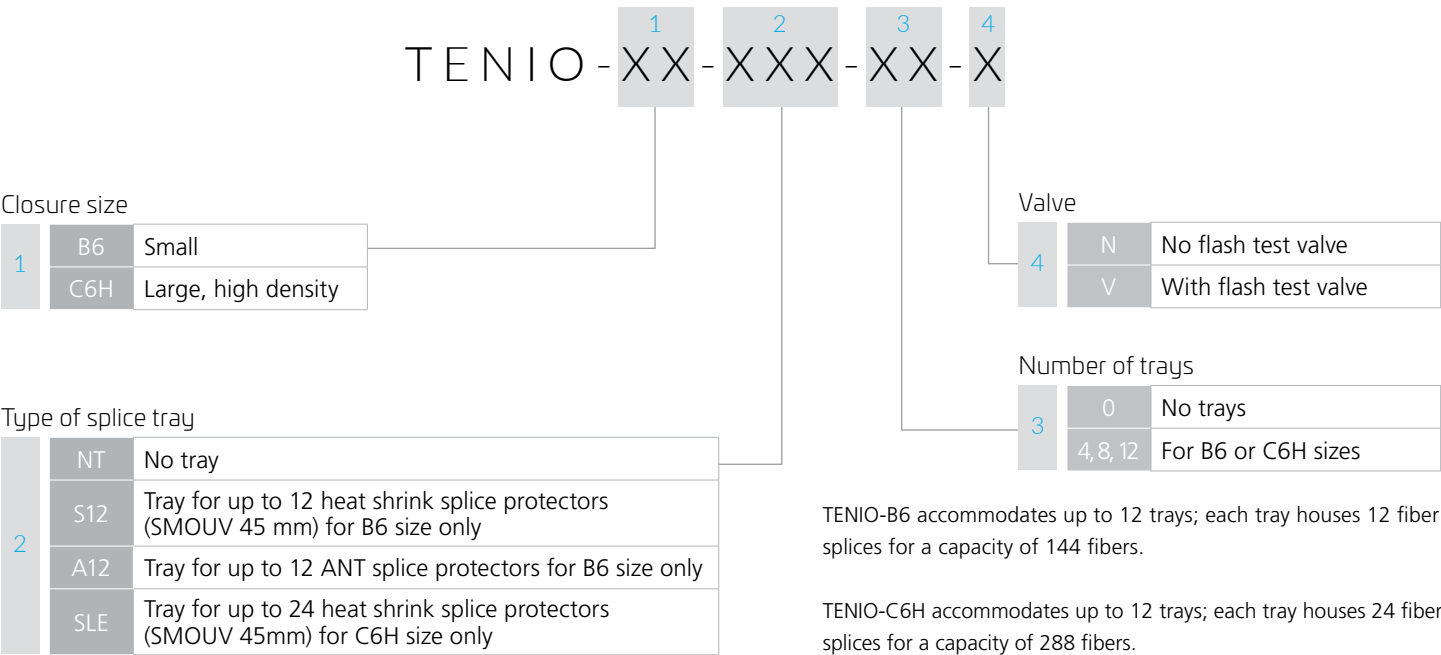
Order these trays for retrofit in TENIO-B6 or TENIO-C6H closures. These trays provide test/monitoring points.

Adapters are ordered separately; only adapters without flanges fit in these patch trays.

Field installable splitter sub-assemblies

Order this assembly and optical splitter module to add splitting capability to a new or previously installed TENIO closure.

CLOSURE



The following standard closure configurations have a minimum order quantity of 1 piece:

PRODUCT DESCRIPTION	QUANTITY PER PACKAGE	QUANTITY PER PALLET	ORDERING NUMBER
B6 Closures			
No trays, no flash test valve	1	35	TENIO-B6-NT-0-N
No trays, with flash test valve	1	35	TENIO-B6-NT-0-V
12 trays, each for up to 12 heat shrink splice protectors (SMOUV 45 mm), no flash test valve	1	35	TENIO-B6-S12-12-N
12 trays, each for up to 12 heat shrink splice protectors (SMOUV 45 mm), with flash test valve	1	35	TENIO-B6-S12-12-V
C6H Closures			
No trays, no flash test valve	1	24	TENIO-C6H-NT-0-N
No trays, with flash test valve	1	24	TENIO-C6H-NT-0-V
12 trays, each for up to 24 heat shrink splice protectors (SMOUV 45mm), no flash test valve	1	24	TENIO-C6H-SLE-12-N
12 trays, each for up to 24 heat shrink splice protectors (SMOUV 45mm), with flash test valve	1	24	TENIO-C6H-SLE-12-V

CABLE SEALS

NOTE: Total number of cable seals ordered must equal 6 per closure.
Minimum order quantity for seals is 5; minimum order quantity for dummy cable seal is 10.

PRODUCT DESCRIPTION		QUANTITY PER PACKAGE	QUANTITY PER PALLET	ORDERING NUMBER
Number of outlets	Diameter range per outlet			
5	2 mm – 4 mm	5	1280	TENIO-SKG5-2/4(1)
4	3 mm – 6 mm	5	1280	TENIO-SKG4-3/6(1)
3	5 mm – 8 mm	5	1280	TENIO-SKG3-5/8(2)
3	7 mm – 10 mm	5	1280	TENIO-SKG3-7/10(2)
2	9 mm – 12 mm	5	1280	TENIO-SKG2-9/12(2)
2	11 mm – 14 mm	5	1280	TENIO-SKG2-11/14(2)
2	13 mm – 16 mm	5	1280	TENIO-SKG2-13/16(2)
3	Flat cable 3/5 mm x 6/9 mm	5	1280	TENIO-SKG3-3/5x6/9(2)
N/A	Dummy cable seal	10	2560	TENIO-SKG-DUMMY

CABLE TERMINATION UNITS

NOTE: Order 1 cable termination unit for each cable; looped cables require 2 cable termination units

QUANTITY PER PACKAGE/BOX	QUANTITY PER PALLET	ORDERING NUMBER
20/200	1280	CTU-S ⁽¹⁾
10/100	1280	CTU-L ⁽²⁾

(1) CTU-S used with cable seals:
TENIO-SKG5-2/4, TENIO-SKG4-3/6

(2) CTU-L used with cable seals:
TENIO-SKG3-5/8, TENIO-SKG3-7/10, TENIO-SKG2-9/12, TENIO-SKG2-11/14,
TENIO-SKG2-13/16, TENIO-SKG3-3/5x6/9



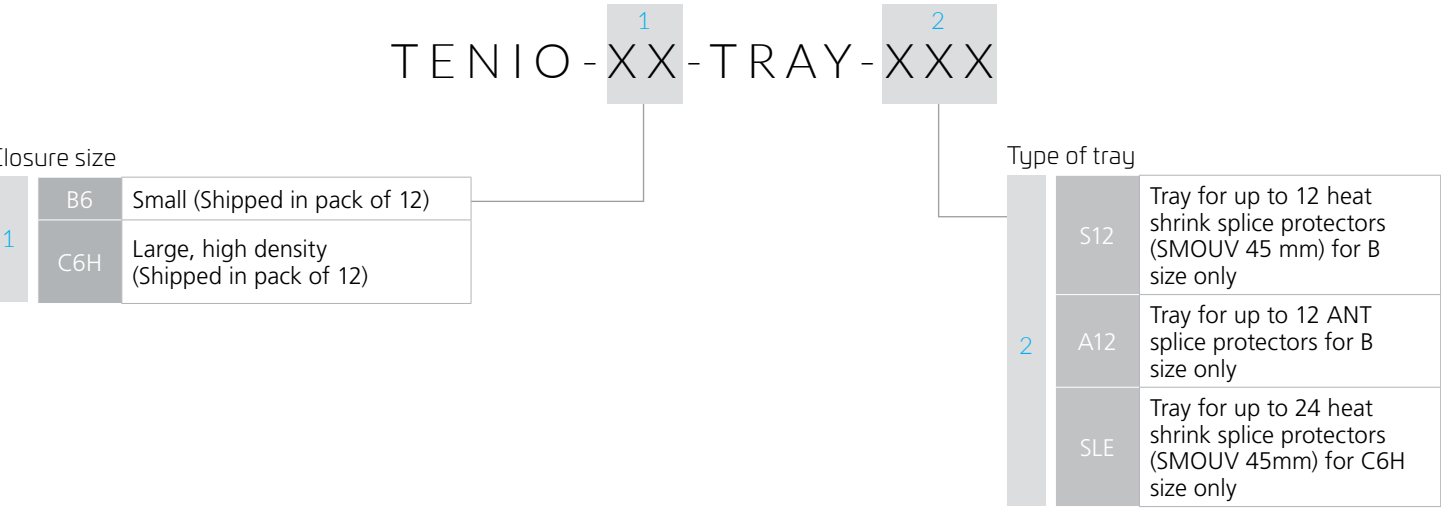
MOUNTING BRACKETS

NOTE: Order 1 mounting bracket per closure. Minimum order quantity: 1

PRODUCT DESCRIPTION	QUANTITY PER PACKAGE/BOX	QUANTITY PER PALLET	ORDERING NUMBER
Mounting bracket	1/10	80	TENIO-MOBRA
External cable fixation bracket	1/10	80	TENIO-EXT/CF

SPLICE TRAYS

NOTE: Minimum order quantity: 12 (for small closures) or 8 (for large closures)



PRODUCT DESCRIPTION	QUANTITY PER PACKAGE/BOX	QUANTITY PER PALLET	ORDERING NUMBER
Trays for small closures (B6 size)			
For up to 12 heat shrink splice protectors (SMOUV 45 mm)	12/180	8640	TENIO-B6-TRAY-S12
For up to 12 ANT splice protectors	12/180	8640	TENIO-B6-TRAY-A12
Trays for C6H closures			
For up to 24 heat shrink splice protectors (SMOUV 45mm)	12/120	5760	TENIO-C6H-TRAY-SLE

PATCH TRAYS

TENIO-

1

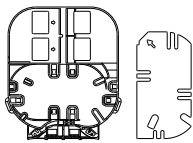
XX-TRAY-PATCH

Closure size

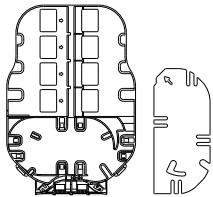
1	B6	Small
	C6H	Large

Patch tray: 3 pieces in a bag
Tray for up to 4 connectors for B6 size only
Tray for up to 8 connectors for C6H size

PRODUCT DESCRIPTION	QUANTITY PER PACKAGE/BOX	QUANTITY PER PALLET	ORDERING NUMBER
B6 Closures			
For up to 2 SC duplex or 1 LC quad adapters (adapters ordered separately)	3/60	2880	TENIO-B6-TRAY-PATCH
C6H Closures			
For up to 4 SC duplex or 2 LC quad adapters (adapters ordered separately)	3/60	2880	TENIO-C6-TRAY-PATCH



B6 patch tray
2 SC duplex/1 LC
quad adapters



C6 patch tray
4 SC duplex/
2 LC quad adapters

These trays are available for retrofit into TENIO-B6 or TENIO-C6H closures. They provide test monitoring points. A maximum of 3 patch trays can be installed in top positions of tower. Adapters are ordered separately; only adapters without flange can be used in these trays. The capacity for LC and SC connectors is the same due to routing limitations.

ADAPTERS

PRODUCT DESCRIPTION	ORDERING NUMBER
Duplex SC/APC	1966062-5
Duplex SC/UPC	1966062-1
Quad LC/APC	1695790-3
Quad LC/UPC	1695790-1

FIELD-INSTALLABLE SPLITTER SUB-ASSEMBLIES

A dedicated storage area is used to house splitter holders in the TENIO closure.

Splitter holders are available in two sizes: small and large. Holders ship with one splitter each. Small and large holders can contain the following splitter configurations:

Small holders	1:2	2:2
	1:8	2:8
	1:16	–
Large holders	–	2:16
	1:32	2:32
	1:64	2:64

The following table shows the number of holders accommodated by TENIO closures.

CLOSURE SIZE	MAXIMUM NUMBER OF SMALL HOLDERS	MAXIMUM NUMBER OF LARGE HOLDERS
TENIO-B6	8	0
	5	1
	2	2
TENIO-C6H	15	0
	12	1
	8	2
	5	3
	2	4

FUSED BICONIC TAPER (FBT) SPLITTERS IN FIELD-INSTALLABLE HOUSING

OCC1A-X

X

XX

NN

ANQNF

Number of Incoming Ports

1

1

1: ...

2

2: ... (50/50 split ratio only)

Number of Outgoing Ports

2

2

... :2

Split Ratio

3

00

50/50 symmetrical

25

25/75

05

5/95

30

30/70

10

10/90

35

35/65

15

15/85

40

40/60

20

20/80

45

45/55

Number of Incoming Ports

5

ANQNF

F: Field installable

250 μm

55

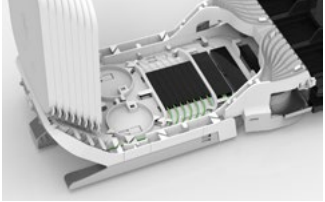
7.5

6.8

—

Unconnectorized

4



PLC SPLITTERS IN FIELD-INSTALLABLE HOUSING

OCC1X-X

XX

XX

NN

NQNF

Grade

1

P

Planar

O

Low loss planar

Number of Incoming Ports

2

1

1: ...

2

2: ...

Number of Outgoing Ports

3

04

... :4

32

25/75

08

... :8

64

30/70

16

... :16

Grade

4

00

Symmetrical

Number of Incoming Ports

5

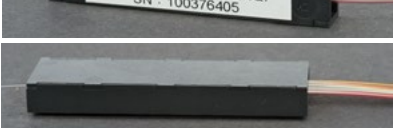
NONQF

Field installable

250 μm

Unconnectorized

4



CommScope pushes the boundaries of communications technology with game-changing ideas and ground-breaking discoveries that spark profound human achievement. We collaborate with our customers and partners to design, create and build the world's most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow. Discover more at commscope.com



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PA-112800.2-EN (02/20)