



Hardened Terminals Solution

Flexible solutions for the evolving networks of tomorrow
North America Region

COMMScope®

Multiport service terminal series— the industry's workhorse

CommScope's history of innovation in fiber connectivity and material science has given the multiport service terminal (MST) series the reputation of the industry's access terminal workhorse. Designed and built with hardened connector technology, the MST series is factory-terminated and environmentally sealed, to withstand rugged outside plant environments. Plug-and-play connectivity ensures fast deployment and lower installation costs by eliminating time-consuming splicing.

The MST series offers four options.

The MST gives providers pole, pedestal, handhole, or strand mounting options, and is offered in two primary configurations: 4x3 or 2xN terminal bodies, each using full-size optical connectors.

- No splicing required in the terminal
- No terminal re-entry required
- Available with hardened full-size optical connectors with up to 12 ports
- 1:2, 1:4, or 1:8 splitter options
- Dielectric, toneable, or input stub cables
- Pole, pedestal, handhole, or strand mounting options
- Ships with universal mounting bracket
- User-friendly packaging allows for easy un-spooling
- Factory-sealed enclosure for environmental protection

CONFIGURATIONS

MST: full-size connectors

- 2xN style: 2, 4, 6, 8, or 12 ports
- 4x3 style: 4, 6, 8, or 12 ports



MST 2xN



MST 4x3

Fiber indexing terminals series—the next evolution in FTTx deployment

With innovative fiber indexing technology, the benefits of plug-and-play hardened connectivity are dramatically increased. Designed specifically for fiber indexing deployments, fiber indexing terminals (NDX) give providers pole, pedestal, or handhole mounting options, and are designed for quick and easy installation.

When deployed in a daisy-chain architecture, fiber indexing terminals have all the advantages of the access terminals portfolio—speed, flexibility, and density—plus, they save the network provider as much as 70 percent of their fiber cabling budget.

In fiber indexing, up to 12 terminals are daisy-chained in a series. This allows a fast and repeatable “cookie-cutter” approach to network design and deployment. The efficient modular design enables efficient, cost-effective connections for new subscribers and services, while allowing providers to take a pay-as-you-grow approach to FTTx deployment.

In a typical FTTx network, signals from the fiber distribution hub (FDH) travel “forward” from the first terminal to the last. When a second FDH cable is connected to the last terminal, the signal runs “backwards” toward the first terminal. Called “reversed

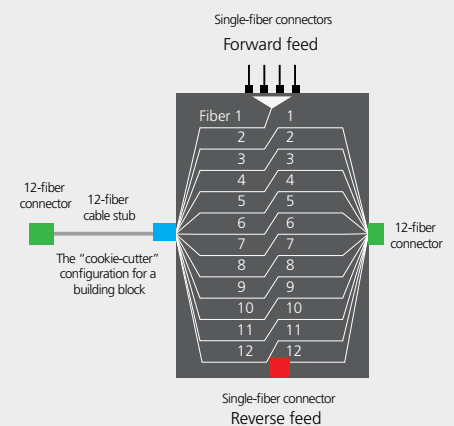
feed,” this technique makes additional fibers available, which providers can use to respond in a virtual instant to unforeseen demands for a wide range of revenue-generating services.

- No splicing required in the terminal
- No terminal re-entry required
- Available with hardened full size connector adapters with 4 and 8 ports
- Available with terminal only, 1:4, and 1:8 integrated splitters; or branching terminals
- Optional multi-use ports, with Index Only and Splitter terminals
- Available with 12 or 24 fiber
- Connector ports colored and clearly labeled for fast installation
- Dielectric input stub cables
- Ships with universal mounting bracket
- User-friendly packaging allows for easy unspooling
- Factory-sealed enclosure for environmental protection

FIBER INDEXING

Fiber indexing is the shifting of a fiber’s position from one multifiber connector to another, within each terminal.

- 1 The process begins with a 12-fiber cable from the fiber distribution hub (FDH) entering the first index terminal.
- 2 Inside the terminal, the fibers divide and the signal from the fiber in the first position is routed to a 1:4 or 1:8 splitter for servicing local customers.



- 3 The remaining fibers are “indexed”—advanced one position in the order—then combined using a 12-fiber HFMOC.
- 4 The exiting 12-fiber hardened cable connects to the next terminal where the indexing process is repeated.



Want to learn more about Fiber indexing?

[WATCH VIDEO](#)

Flexible service terminal series—the ultimate option for difficult environments

CONFIGURATIONS

The flexible service terminal (FST) series is designed specially for fast, easy network connections in space-constrained environments. A small terminal unit attached to staggered-length connector cables gives installers maximum flexibility in the tightest, most challenging install situations. Hardened fiber stubs make for fast, reliable, plug-and-play distribution to customer premises. The FST's unique design also simplifies maintenance, as the flexible hardened adapter stubs are easy to clean and re-connect without removing the terminal from its installed position.

This factory-sealed terminal withstands harsh outside plant conditions, and is an ideal option for spaces such as handholes or congested pits where moisture is possible. The small unit's flexible structure gives technicians a wealth of install options—it's a simple solution that can reduce or even eliminate the costs of civil works and construction. The FST series consists of three options:

FST-T

The FST-T terminal features preconnectorized, hardened, full-size or miniaturized DLX single-fiber adapter drops and an HMFOC stub.

- No splicing required in the terminal
- No terminal re-entry required
- Output cables are grouped and staggered to distribute space consumption and minimize kinking
- Hardened adapter drops are configured in pre-defined lengths for easy identification and management
- Dielectric input cable with nylon jacket for termite protection
- Multiple mounting options

FST-T: full-size

- Single fiber drops
- Available on 2,4,6,8 and 12 drops
- Available with HMFOC stub or various-length stub tails for splicing
- Quick install to distribution cable with 12-fiber HMFOC interface or various-length stub tails



FST-T 12 Ports Full Size



FST-T 4 Ports Full Size

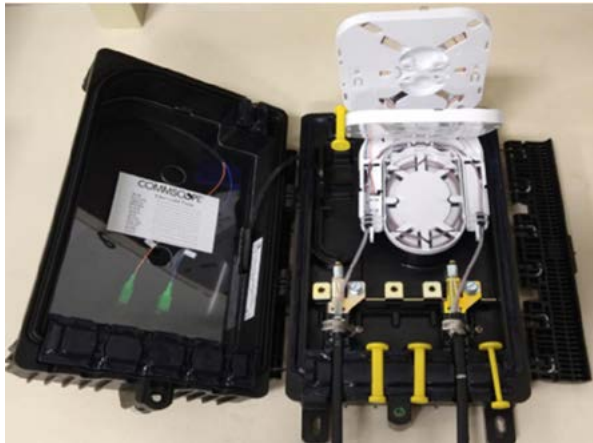
If you have design, installation, or troubleshooting questions, find prompt, expert support from a CommScope professional.

SUPPORT CENTER

Any application. Any configuration. One portfolio.

CommScope's family of optical termination enclosures (OTE) was specifically designed to streamline and speed the deployment of fiber while delivering long-lasting reliability and peace of mind. Composed of four OTE series, this portfolio was designed with an almost limitless choice for sizes, styles, and configurations to accommodate nearly every unique deployment need.

These robust enclosures feature pre-connectorized hardened adapter ports and are fully compatible with full size and Prodigy Adapters. They provide plug-and-play simplicity for deploying and managing fiber optic connections. They also offer a unique solution for splicing, termination, and pass-through cable requirements in FTTx architectures to facilitate deployment.



OTE 8 Ports Prodigy

CONFIGURATIONS

Mini-OTE (OTE-300)

- 2, 4, 6, 8, or 12 Ports
- Stub or In-Line application
- Available with Prodigy or Full-Size adapter
- No Splitter, Splitter or TAP configurations.

Ordering information

MST SERIES

2xN footprint
full size

MST - M H O O -



Terminal model

02	2 ports
04	4 ports
06	6 ports
08	8 ports

Cable type

A	Dielectric, flat, loose tube
B	Locatable, flat, loose tube

*0–300 ft lengths of cable is automatically coiled (option U), for greater than 300 ft cable lengths, choose U or A option.

Mounting style*

U	Universal: Terminal is on top of the spool; stub deploys first
A	Reversal spool: Terminal is on the bottom of the spool; terminal deploys first

Standard cable stub length

0050	50 feet
0100	100 feet
0250	250 feet
0500	500 feet
0750	750 feet
1000	1000 feet
1500	1500 feet
2000	2000 feet

Standard lengths shown; metric lengths available

4x3 footprint
full size

MST - R H O O -



Terminal model

04	4 ports
06	6 ports
08	8 ports
12	12 ports
0V	1x2 splitter
0N	1x4 splitter
0J	1x8 splitter

Cable type

A	Dielectric, flat, loose tube
B	Locatable, flat, loose tube

*0–300 ft lengths of cable is automatically coiled (option U), for greater than 300 ft cable lengths, choose U or A option.

Mounting style*

U	Universal: Terminal is on top of the spool; stub deploys first
A	Reversal spool: Terminal is on the bottom of the spool; terminal deploys first

Standard cable stub length

0050	50 feet
0100	100 feet
0200	200 feet
0500	500 feet
0750	750 feet
1000	1000 feet
1500	1500 feet
2000	2000 feet

Standard lengths shown; metric lengths available



Contact your CommScope representative for configuration availability.

FST-T SERIES



Terminal model

02	2 ports
04	4 ports
06	6 ports
08	8 ports
12	12 ports

Housing type

N	Generic
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Output connector type

H	Full-size
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Standard cable lengths

0001	1 foot	0500	500 feet
0010	10 feet	0750	750 feet
0025	25 feet	1000	1,000 feet
0050	50 feet	1250	1,250 feet
0100	100 feet	1500	1,500 feet
0200	200 feet	1750	1,750 feet
0300	300 feet	2000	2,000 feet

Feeder cable type

A	Buried dielectric – flat
B	Buried Dielectric Toneable

Feeder connector type

M1	Multifiber connector HMFOC jack (Male/Pinned)
M2	Multifiber connector HMFOC plug (Female/No Pin)
00	Stub (no connector)

Example:

FST-T-06NHM2-A0500F

FST with 6 full-size outputs, feeder connector – HMFOC plug (Female/No Pin),
Feeder cable – Buried dielectric flat, Length – 500 feet



Contact your CommScope representative for configuration availability.

MINI-OTE 300 SERIES



OTE - M - - G

Number of ports

02	2 ports
04	4 ports
06	6 ports
08	8 ports
12	12 ports

Type of adapter

H	Full size
A	Prodigy

Passive optical module options

NN	No splitter
12	1:2 splitter (FBT)
14	1:4 splitter (planar)
18	1:8 splitter (planar)
2C	2 channel CCWDM
4C	4 channel CCWDM
8C	8 channel CCWDM

Number of trays

03	3 trays (standard) 2 fiber splicing trays, 1 fiber storage tray
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Optional features

EXT	External mounting
##	Starting CCWDM wavelength, 20nm spacing
##A	Starting CCWDM wavelength skipped channels

Example: OTE- 04MX-14- EXTG03
4 Port Mini-OTE with 1x4 splitter, external mounting, grounding, 3 trays

MINI-OTE 300 SERIES WITH OPTICAL TAPS



OTE - M - - G

Number of ports

04	4 ports
08	8 ports
12	12 ports

Type of adapter

H	Full size
A	Prodigy

Type of tap

12	2 drops
14	4 drops
18	8 drops

Number of trays

03	3 trays (standard) 2 fiber splicing trays, 1 fiber storage tray
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Tap dB value

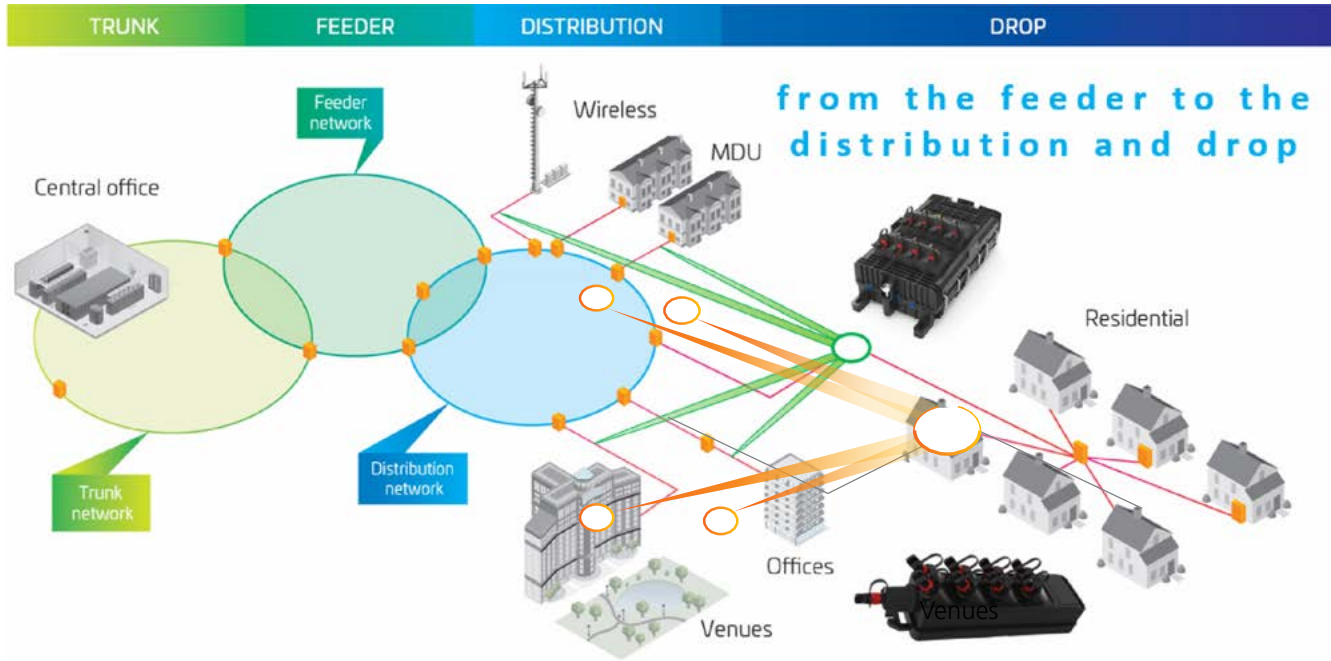
	2 Drop	4 Drop	8 Drop
04T	4 terminating		
07T		7 terminating	
11T			11 terminating
050	5		
070	7		
080	8		
090		9	
100	10	10	
110		11	
120	12		12
130		13	
140	14		14
150	15	15	15
170	17	17	17
190	19	19	19
210	21	21	21

Example: OTE- 08MH-14-190G03
Eight-port mini-OTE 300, full-size hardened adapters,
1x4 tap, 19dB, ground plug, 3 trays



Contact your CommScope representative for configuration availability.

Prodigy hardened terminals are engineered from the get-go as a new FTTX system architecture that spans the outside plant fiber network.



RELIABILITY INSTALLABILITY FLEXIBILITY SPEED

Hardened terminals

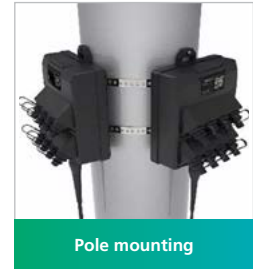
Hardened Terminals		Technologies available	Small	Medium	Large
HST Series	Single-fiber: P2P/no splitters	2 ports 4 ports	6 ports 8 ports	12 ports	
	Single-fiber: P2P w/splitters	2 ports, 1x1:2 4 ports, 1x1:4	8 ports, 2x1:4 8 ports, 1x1:8	12 ports, 3x1:4	
	Hybrid for multi-use	4 ports, 1x1:2 splitter, 2 P2P	7 ports, 1x1:4 splitter, 3 P2P 8 ports, 1x1:4 splitter, 4 P2P	12 ports, 1x1:8 splitter, 4 P2P 11 ports, 2x1:4 splitter, 2 P2P, 1 HMFOC 4f	
HMT Series	Multi-fiber	Up to 48f	Up to 96f	Up to 24f	
		2 ports, each 2, 4, 6, 8, or 12f	6 ports, each 2, 3, or 4f		
		3 ports, each 2, 4, 6, or 8f	8 ports, each 2, 3 or 12f	12 ports, each 2f	
		4 ports, each 2, 4, or 6f			
HTT Series	Optical taps	2 drops	4 drops	8 drops	
HXT Series	Fiber indexing	12 fiber index only, 1f	12 fiber 1:4	12 fiber 1:8	
		12 fiber index only, 2f	12f multi-use 2f + 1:4	12 fiber multi-use, 3f + 1:4	
		12 fiber index only, 3f	24f multi-use 2f	12 fiber multi-use, 4f + 1:4	
		12 fiber index only, 4f	24f multi-use 3f	12 fiber multi-use, 2f + 1:8	
		12 fiber multi-use, 2f	24f multi-use 4f		
		12 fiber branching, 2 to 6f per port			

Hardened Terminals Mounting Options



Universal mounting bracket*
attaches to the built-in mounting
features on the back of the terminal

* Ordered separately



Ordering information—accessories

Catalog No.	Description	MOQ
NVX-UMB-NN-SS-BK	Universal mounting bracket small—small actuator (handle)	1
NVX-UMB-NN-SM-BK	Universal mounting bracket small—medium actuator (handle)	1
NVX-CMB-NN-UV-BK	Cable mounting bracket	1
NVX-SMB-FD-NN-NN	Strand mounting bracket	1
NVX-PED-DB-NN-NN	Pedestal D bar mounting kit	1

Hardened terminals, single-fiber



Housing color	
B	Black, RAL 9005

Number of ports	
2	2 port
4	4 port
6	6 port
8	8 port
C	12 port

Adapter type	
A	Prodigy
H	Full-size

Configuration standard	
N	No splitter
A	1:2 splitter
B	1:4 splitter
C	1:8 splitter
D	2x 1:4 splitter
E	3x 1:4 splitter
H	1:4 splitter + 4P2P
J	1:8 splitter + 4P2P

Cable type*	
A	Flat dielectric
B	Flat toneable
C	Round armored
G	Round dielectric
O	Stubless

* 0-300 foot lengths of cable are coiled (option 000); for lengths greater than 300 feet, choose preferred option

Cable length	
0000	0 ft, 0 m
0010	10 ft, 3 m
0020	20 ft, 6 m
0030	30 ft, 9 m
0033	33 ft, 10 m
0050	50 ft, 15 m
0066	66 ft, 20 m
0100	100 ft, 30 m
0150	150 ft, 45 m
0165	165 ft, 50 m
0200	200 ft, 60 m
0250	250 ft, 76 m
0300	300 ft, 91 m
0330	330 ft, 100 m
0350	350 ft, 106 m
0400	400 ft, 121 m
0450	450 ft, 137 m
0500	500 ft, 152 m
0550	550 ft, 167 m
0600	600 ft, 182 m
0650	650 ft, 198 m
0700	700 ft, 213 m
0725	725 ft, 220 m
0750	750 ft, 228 m
0800	800 ft, 243 m
0821	821 ft, 250 m
0850	850 ft, 259 m
0900	900 ft, 274 m
0985	985 ft, 300 m
1000	1000 ft, 304 m
1100	1100 ft, 335 m
1150	1150 ft, 350 m
1200	1200 ft, 365 m
1250	1250 ft, 381 m
1300	1300 ft, 396 m
1400	1400 ft, 426 m
1500	1500 ft, 457 m
1600	1600 ft, 487 m
1642	1642 ft, 500 m
1700	1700 ft, 518 m
1750	1750 ft, 533 m
2000	2000 ft, 609 m

Customization	
000	Standard (stub first)
001	Reverse spool (terminal first)
002	Plastic spool (stub first)
003	Plastic spool (terminal first)

Accessories	
N	No accessories
U	Universal mounting bracket
S	Strand bracket

Stub end	
N	Splice stub
H	Full-size
A	Prodigy
F	HMFOC plug (female/no pin) 20 ft minimum length
M	HMFOC jack (Pinned) stubless only



Contact your CommScope representative for configuration availability.

Hardened terminals with fiber indexing



Housing color	
B	Black, RAL 9005

Number of ports	
2	2 port
3	3 port
4	4 port
5	5 port
6	6 port
7	7 port
8	8 port
9	9 port
A	10 port
B	11 port
C	12 port

Adapter type	
A	Prodigy
H	Full-size
M	HMFOC jack (male/pinned)

Cable type*	
A	Flat dielectric
B	Flat toneable 12f

* 0-300 foot lengths of cable are coiled (option 000); for lengths greater than 300 feet, choose preferred option

Configuration index	
A	12f index only with 1f reverse
B	12f 1:4 splitter
C	12f 1:4 splitter with reverse
D	12f 1:8 splitter
E	12f 1:8 splitter with reverse
F	12f branching 2f
G	12f branching 3f
H	12f branching 4f
J	12f branching 5f
K	12f branching 6f
L	12f index only 2f
M	12f multi-use 2f
N	12f multi-use 3f
P	12f multi-use 4f
Q	12f multi-use 2f + 1:4
R	12f multi-use 3f + 1:4
S	12f multi-use 4f + 1:4
T	12f multi-use 2f + 1:8
U	24f multi-use 2f
V	24f multi-use 3f
W	24f multi-use 4f

Customization	
000	Standard (stub first)
002	Plastic spool (stub first)

Accessories	
N	No accessories
U	Universal mounting bracket
S	Strand bracket

Stub end	
F	HMFOC plug (female/no pin)
M	HMFOC jack (Pinned) stubless only

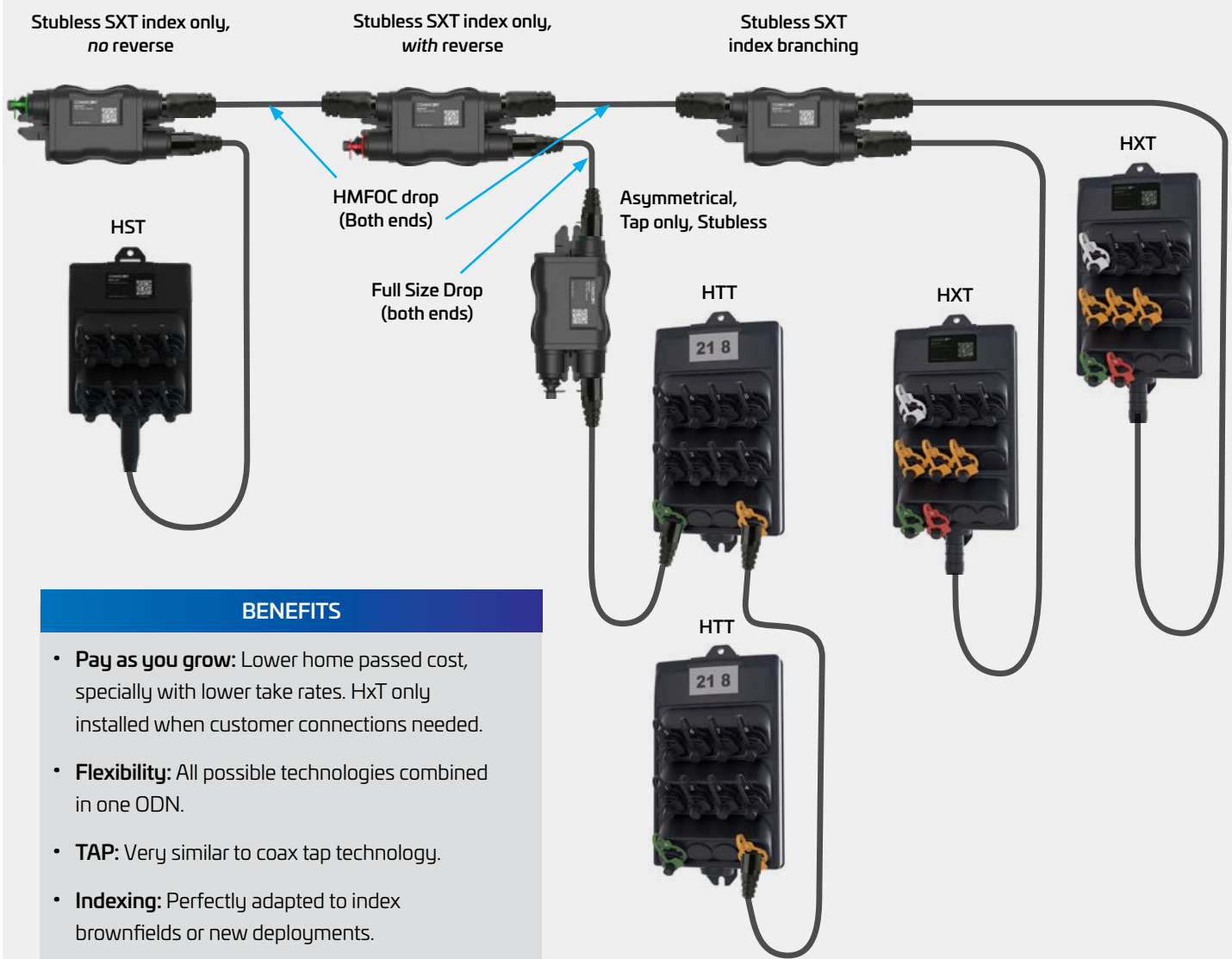
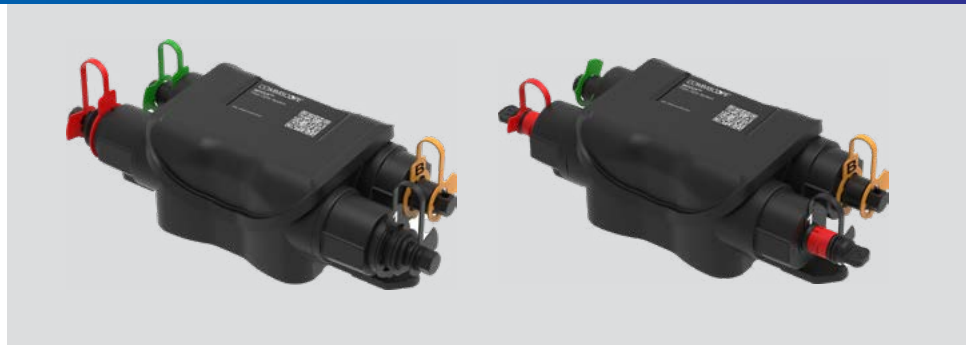
Cable length	
0020	20 ft, 6 m
0050	50 ft, 15 m
0100	100 ft, 30 m
0150	150 ft, 45 m
0200	200 ft, 60 m
0250	250 ft, 76 m
0350	350 ft, 106 m
0450	400 ft, 137 m
0500	500 ft, 152 m
0600	600 ft, 182 m
0750	750 ft, 228 m
0800	800 ft, 243 m
1000	1000 ft, 304 m
1250	1250 ft, 381 m
1500	1500 ft, 457 m
1750	1750 ft, 533 m
2000	2000 ft, 609 m



Contact your CommScope representative for configuration availability.

Specialty Terminals Adapters configuration

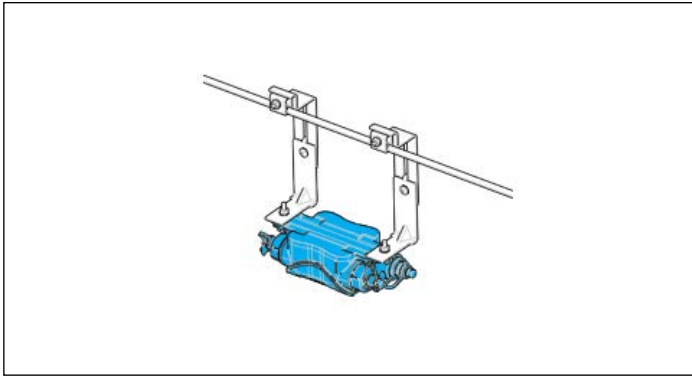
Commscope's Specialty Terminals offer different alternatives for adapters including the Full Size connector and, Prodigy universally compatible with multiple hardened fiber connectors as common features among all components.



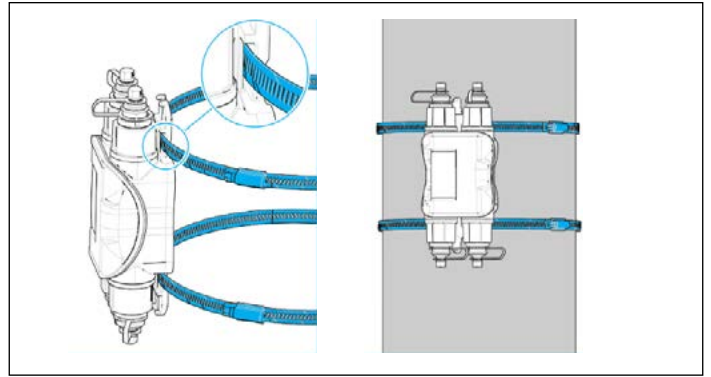
BENEFITS

- **Pay as you grow:** Lower home passed cost, specially with lower take rates. HXT only installed when customer connections needed.
- **Flexibility:** All possible technologies combined in one ODN.
- **TAP:** Very similar to coax tap technology.
- **Indexing:** Perfectly adapted to index brownfields or new deployments.
- **Stubless:** Fewer SKUs on terminals.

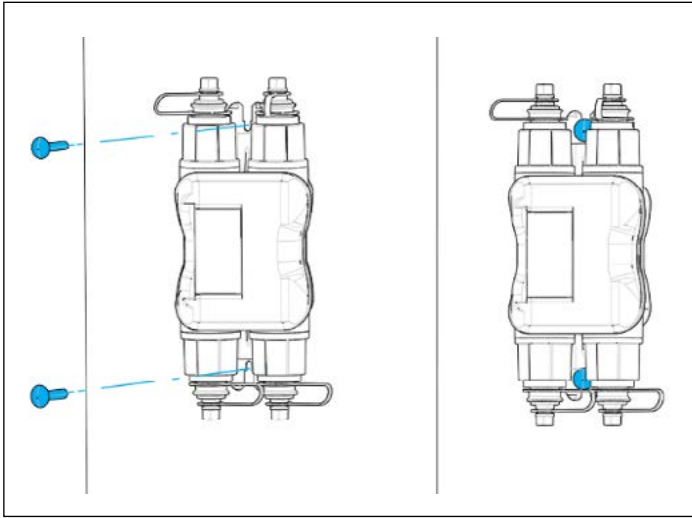
Mounting options



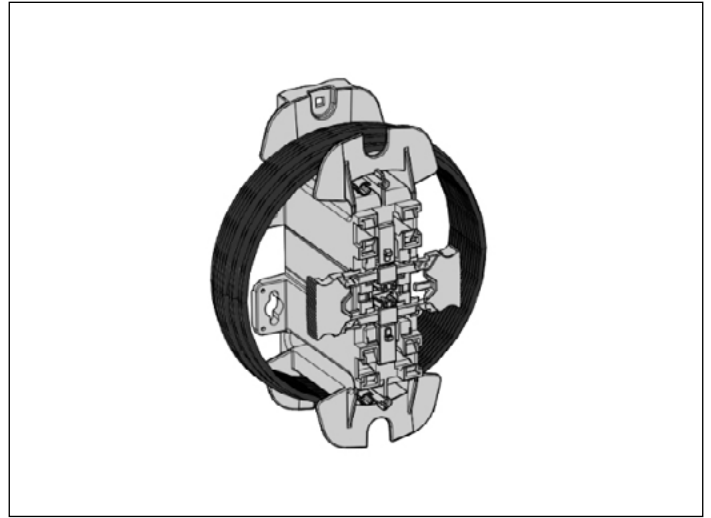
Strand mounting



Pole mounting*



Surface mounting*



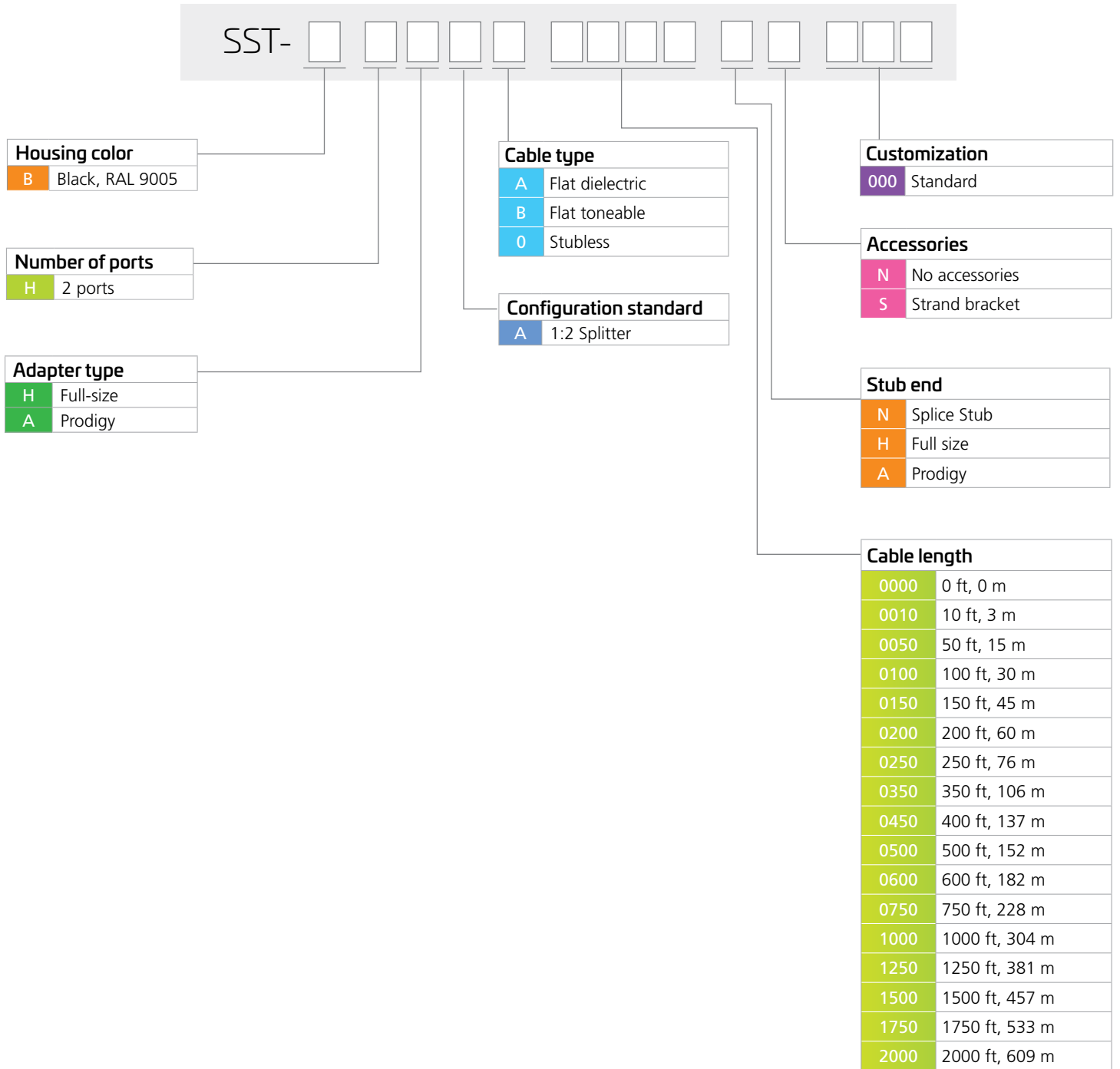
Universal cable bracket with overlength*

* Fixing hardware and straps not included

Ordering information—accessories

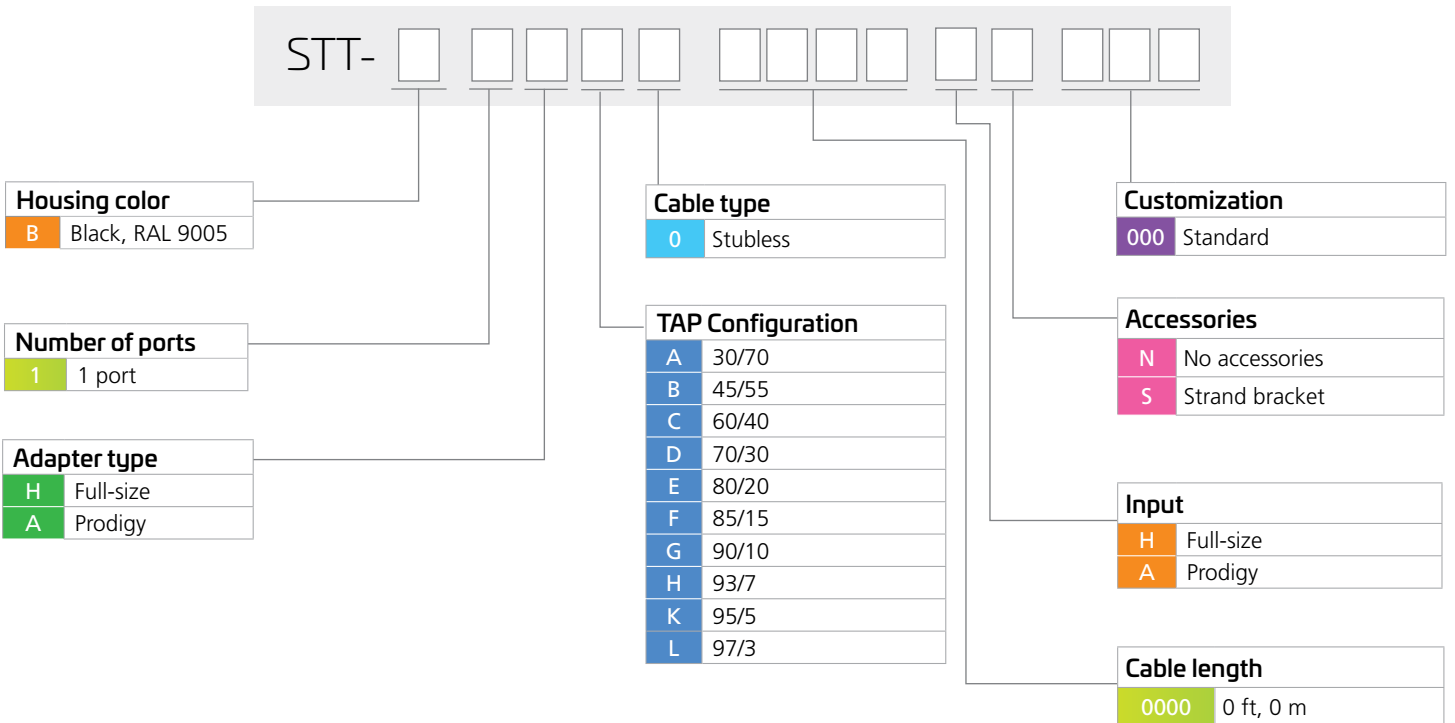
Catalog no.	Description	MOQ
NVX-ACC-SMB	Strand mounting bracket	1
NVX-CMB-NN-UV-BK	Cable Mounting Bracket	1

Ordering information—SST

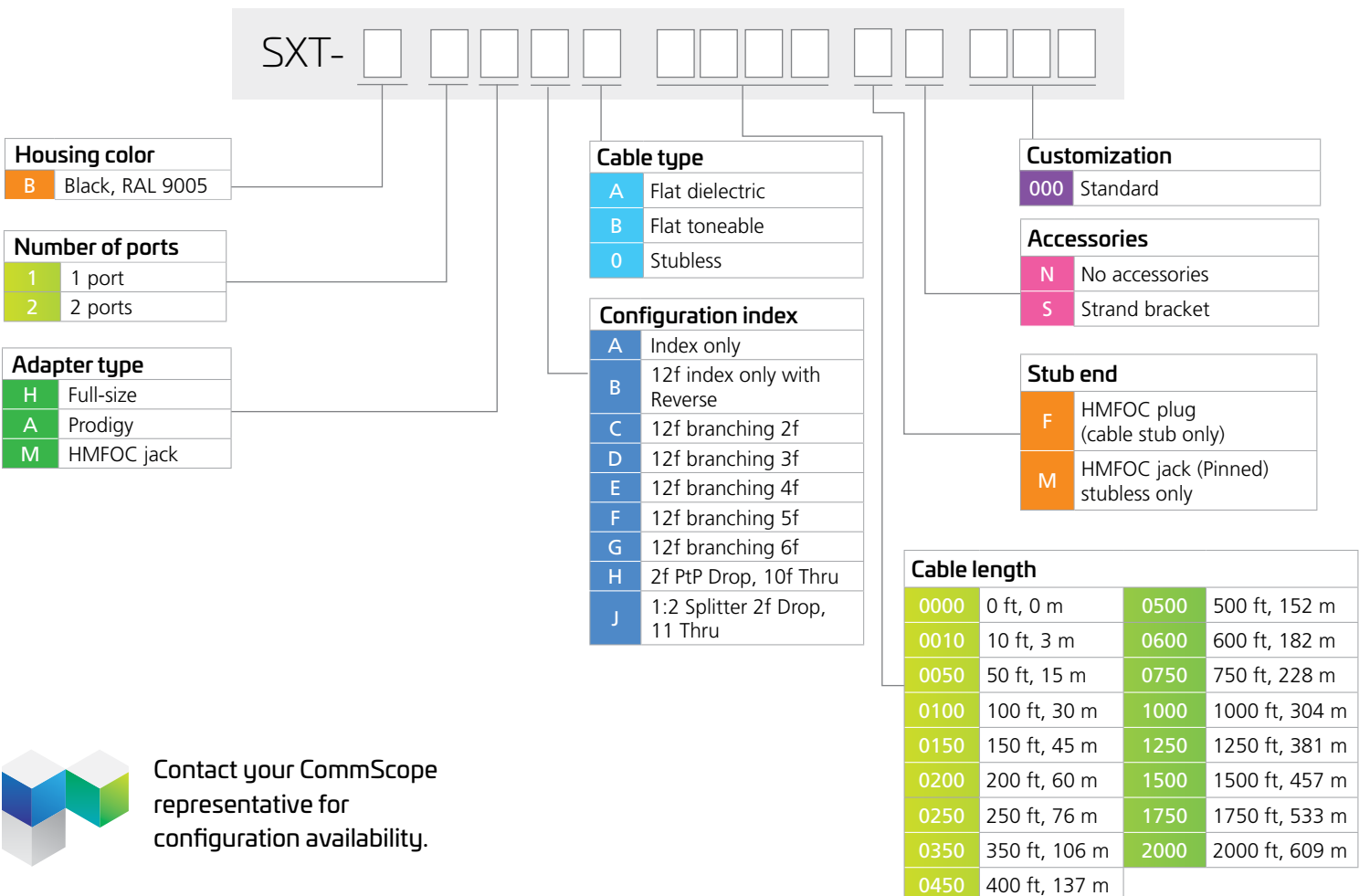


Contact your CommScope representative for configuration availability.

Ordering information—STT



Ordering information—SXT



Contact your CommScope representative for configuration availability.

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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BR-119070-EN (08/24)