Ordering Guide

Pre-terminated 1.2mm multi-fiber cable assemblies

COMMSCOPE®

Solutions for expanding your network's potential

With customer expectations intensifying, the need for more fiber in the network grows. Smaller, easier-to-install fiber patching solutions makes it possible. At CommScope, we're always anticipating—so you're always ready. With our new family of pre-terminated 1.2mm multi-fiber cable assemblies, you can increase density in your optical distribution frames (ODFs) and accelerate fiber deployment. One more way CommScope helps you expand your network's potential.

Design flexibility – performance rated

Our portfolio of 1.2mm pre-terminated multi-fiber cable assemblies are designed for a wide variety of in-building applications and can be configured for your specific needs.

- Breakout types: Double-ended breakouts or breakouts-to-stub end
- Fiber counts: 4, 8, 12, 24, 36, 48, 72, 96 and 144 stranded fibers
- Use ratings: Plenum- or Dual Rated (LSZH/Riser)
- Connector: 22 combinations using ultra-polished or angle-polished MPO, SC, LC and stub end
- Breakout lengths: 20 inches to 120 inches
- Additional options: Available with or without pulling socks

These in-building assemblies use no metallic strength members and are designed to meet the fire-resistant characteristics required in a variety of central office applications. All assembly components have passed the rigorous requirements of the Telcordia GR specifications.

- All fiber optic cable is tested in accordance with GR-409
- All single fiber connectors are tested to GR-326 performance specifications
- All MPO fiber connectors are tested to GR-1435 performance specifications

Decrease installation time – increase fiber density

These pre-terminated 1.2mm multi-fiber cable assemblies provide fast plug-and-play turn up of new customers and services. They are designed for use with all ODF systems, including CommScope's popular NG4 frame, enabling you to support greater fiber density without sacrificing manageability.

Ordering information

Use the following information to help configure and order your pre-terminated 1.2mm multi-fiber cable assemblies.

Cable Family	
S	Plenum
W	Dual Rated (LSZH/Riser)

Connector A	Connector B
A	SM UPC/SC	SM UPC/SC
B	SM APC/SC	SM APC/SC
C	SM UPC/LC	SM UPC/LC
D	SM APC/LC	SM APC/LC
E	SM UPC/SC	SM UPC/LC
F	SM APC/SC	SM APC/LC
G	SM UPC/SC	STUB (NO CONNECTOR)
H	SM APC/SC	STUB (NO CONNECTOR)
J	SM UPC/LC	STUB (NO CONNECTOR)
K	SM APC/LC	STUB (NO CONNECTOR)
L	SM UPC/SC	SM APC/SC
M	SM UPC/LC	SM APC/LC
N	SM UPC/SC	SM APC/LC
P	SM APC/SC	SM UPC/LC
1	SM UPC/SC	SM MALE MPO
2	SM APC/SC	SM MALE MPO
3	SM UPC/LC	SM MALE MPO
4	SM APC/LC	SM MALE MPO
5	SM UPC/SC	SM FEMALE MPO
6	SM APC/SC	SM FEMALE MPO
7	SM UPC/LC	SM FEMALE MPO
8	SM APC/LC	SM FEMALE MPO

Connector codes 1 through 8 are only available on 3.0mm subunit.

Construction	
6	2.0 mm 12-fiber loose tube subunit *
7	3.0 mm 12-fiber loose tube subunit

* 2.0mm subunit only available in 4, 8 and 12 fibers.

Fiber Count	
4	4 Fiber
8	8 Fiber
D	12 Fiber
F	24 Fiber
G	36 Fiber
H	48 Fiber
K	72 Fiber
L	96 Fiber
M	144 Fiber

"L2" Fanout Length (inches)	
20	20 inches
21	21 inches
22	22 inches
	ETC
97	97 inches
98	98 inches
99	99 inches
H0	100 inches
H1	101 inches
	ETC
H9	109 inches
HX	110 inches
HF	115 inches
HT	120 inches

"L3" Fanout Length (inches)	
00	No "L3" breakout (Stub)
20	20 inches
21	21 inches
22	22 inches
	ETC
97	97 inches
98	98 inches
99	99 inches
H0	100 inches
H1	101 inches
	ETC
H9	109 inches
HX	110 inches
HF	115 inches
HT	120 inches

Minimum length is 20" - Maximum length is 120"

"L1" Overall Length	
XXX	

"L1" Unit of Measure	
F	Feet
M	Meters

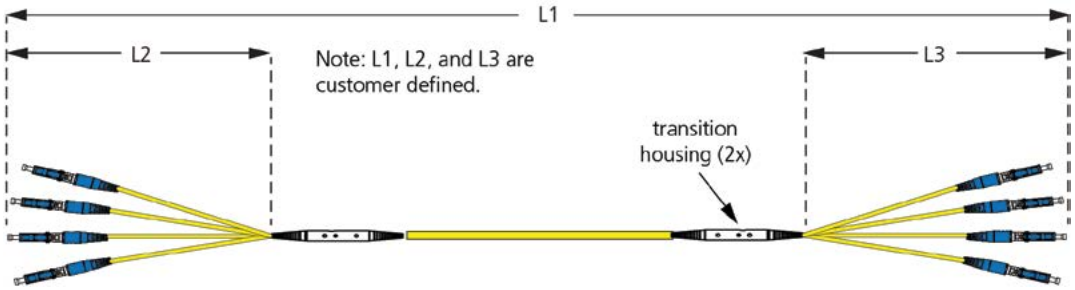
Options	
0	None
B	Pulling sock end B

Undefined Future Field	
00	Future Use

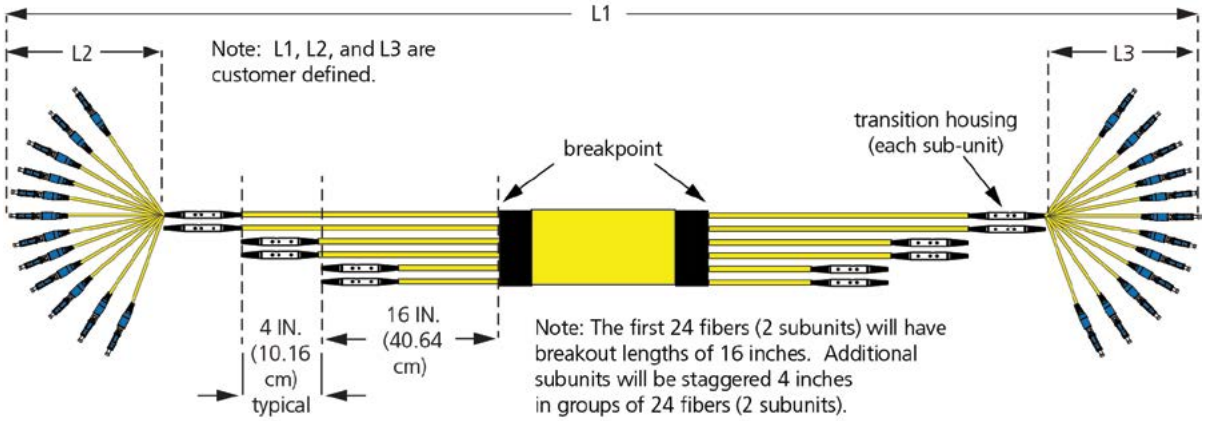
Other Restrictions:

- Minimum L1 is 008 feet (003 meters).
- Pulling sock not available on fiber counts 4, 8 or D.
- 2 mm cable is only available as Plenum.

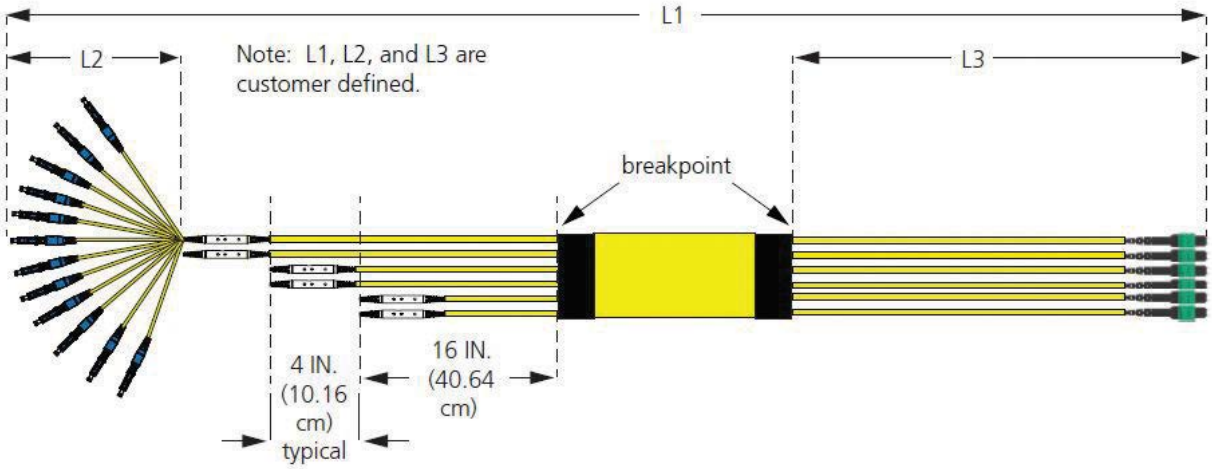
4, 8 and 12 Fiber Assembly Image



24 – 144 Fiber Assembly Image



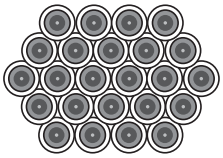
MPO Connectors on Side B (Optional)



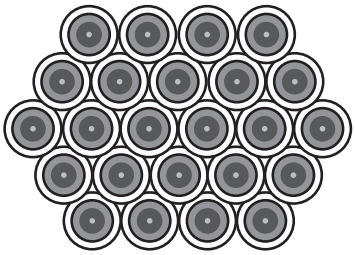
Fiber Cable Assemblies - Connectors

This detail shows the advantages of the 1.2 mm subunits.

PATCH CORD DIAMETER	CABLES PER SQUARE *INCH OF VERTICAL CABLE MANAGEMENT SPACE
3.0 mm	46
2.0 mm	102
1.6 mm	142
1.2 mm	**285**
*Based on GR-449-CORE, Issue 2 patch cord packing density guidelines.	

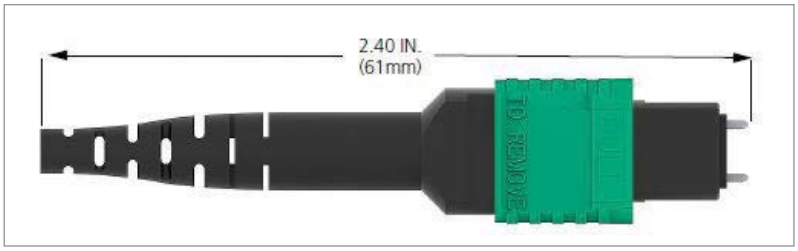


24-Fiber Bundle
1.2 Diameter Cable



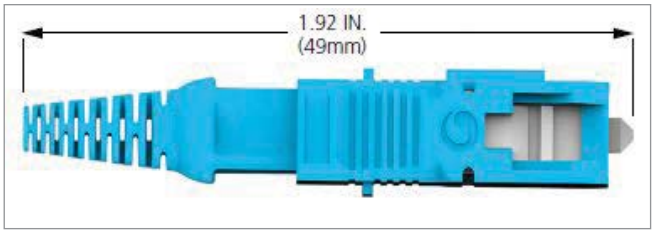
24-Fiber Bundle
2.0 Diameter Cable

12 FIBER SINGLEMODE MPO		
Insertion loss (dB Maximum)	1310 nm	0.45
	1550 nm	0.45
Return loss (dB Maximum)	1310 nm	65
	1550 nm	65



MPO Connector

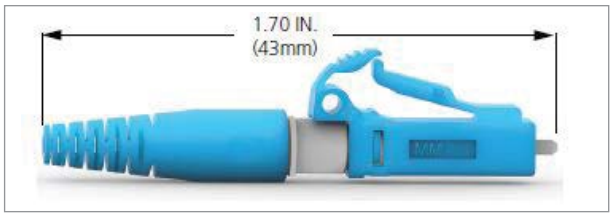
SC - SINGLEMODE ULTRA POLISH (UPC)		
Insertion loss (dB Maximum)	1310 nm	0.2
	1550 nm	0.2
Return loss (dB Maximum)	1310 nm	55
	1550 nm	55



SC Connector

SC - SINGLEMODE ANGLED POLISH (APC)		
Insertion loss (dB Maximum)	1310 nm	0.35
	1550 nm	0.35
Return loss (dB Maximum)	1310 nm	65
	1550 nm	65

LC - SINGLEMODE ULTRA POLISH (UPC)		
Insertion loss (dB Maximum)	1310 nm	0.3
	1550 nm	0.3
Return loss (dB Maximum)	1310 nm	55
	1550 nm	55



LC Connector

LC - SINGLEMODE ANGLED POLISH (APC)		
Insertion loss (dB Maximum)	1310 nm	0.35
	1550 nm	0.35
Return loss (dB Maximum)	1310 nm	65
	1550 nm	65

Partner with CommScope and expand your network's potential

With CommScope's portfolio of pre-terminated 1.2mm multi-fiber cable assemblies, speed meets savings and you get capacity without compromise. It's designed for visionary service providers who are eager to tackle tomorrow's challenges today, and supported by the leader in network infrastructure solutions.

For more information on our pre-terminated 1.2mm multi-fiber cable assemblies—or any of our fiber connectivity solutions—check out our Product Catalogue at www.commscope.com

We are CommScope: where now meets next.

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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