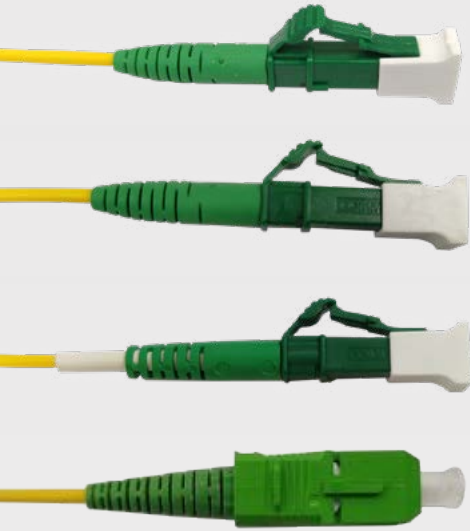


# Singlemode cable assemblies

Pigtails and patch cords



Singlemode fiber optic cable assemblies are designed for use in telecommunications, CATV, data communications and wide area network applications.

Pigtails are single fiber cables preassembled with a connector at one end. They are typically used to terminate primary coated fiber to optical equipment.

Patch cords are single fiber cables preassembled with a connector at both ends. They are typically used to cross-connect patch panel to patch panel and to interconnect patch panels to optical equipment.

## FEATURES

- CommScope offers two ranges of cable assembly specifications according to IEC 61755-1:
- Grade C as a standard quality for use in data centers and telecommunication networks
- Grade B as a superior quality if lower attenuation (Insertion) losses are required, for example to cover extra distance
- All connectors are built with full ceramic ferrules and tuned for best performance and compatibility according to IEC 61755-3-1 and -3-2
- CommScope's standard single mode fiber is according to ITU-T G.657.A1 ( MFD  $9.2 \mu\text{m} \pm 0.4 \mu\text{m}$  ) and G.657.A2 (MFD  $8.6 \mu\text{m} \pm 0.4 \mu\text{m}$  ). If other fiber types or MFD (Mode Field Diameter ) are required, please contact your CommScope representative.

## Optical performance

	Standard connectors	Superior connectors
Grade according to IEC 61755-1	C	B
Attenuation (Insertion loss)		
Random mated for 97%	$\leq 0.50 \text{ dB}$	$\leq 0.25 \text{ dB}$
Random mated average	$\leq 0.25 \text{ dB}$	$\leq 0.12 \text{ dB}$
Against reference <sup>1</sup>	$\leq 0.45 \text{ dB}$	$\leq 0.25 \text{ dB}$
Return loss		
Random mated for UPC <sup>2</sup>	$> 50 \text{ dB}$	$> 50 \text{ dB}$
Random mated for APC <sup>3</sup>	$> 60 \text{ dB}$	$> 60 \text{ dB}$
Operational temperature range	$-40^\circ\text{C} \dots +70^\circ\text{C}$	$-40^\circ\text{C} \dots +70^\circ\text{C}$

<sup>1</sup> The given values are for 1310 nm, 1550 nm and 1625 nm

<sup>2</sup> UPC = ultra polished physical contact

<sup>3</sup> APC = angled polished physical contact

For information on other grade connectors, please contact your local CommScope sales representative.

## Ruggedized Pigtails



Connector/adaptor type		
Standard C grade	Superior B grade	Type
S1	SF	SC/UPC
S2	SG	SC/APC 8°
S3	SH	SC/APC 9°
L1	LF	LC/UPC
L2	LG	LC/APC
-	EC	LSH/APC 8°

- Standard Configuration by default for 1.8mm  
 Jacket color : Yellow  
 buffer color : milky white or transparent  
 250 µm color : natural or milky white

Cable type			Fiber type
ASIA	1.8 mm simplex	LSZH jacket	A1
HSIA	1.8 mm simplex	LSZH jacket	A2

Cable length	
06	6 meters
20	20 meters

## 900 µm pigtails



Connector/adaptor type		
Standard C grade	Superior B grade	Type
S1	SF	SC/UPC
S2	SG	SC/APC 8°
S3	SH	SC/APC 9°
L1	LF	LC/UPC
L2	LG	LC/APC
-	EC	LSH/APC 8°

- Standard Configuration by default 900µm buffer  
 buffer color : yellow  
 250 µm color : natural or milky white

Cable type			Fiber type
ASEN	900 µm	Semi-tight jacket	A1
HSEN	900 µm	Semi-tight jacket	A2

Cable length	
02	2 meters

## Patch cords



### Connector type at end 1

Standard C grade	Superior B grade	Type
S1	SF	SC/UPC
S2	SG	SC/APC 8°
S3	SH	SC/APC 9°
L1	LF	LC/UPC
L2	LG	LC/APC
-	EC	LSH/APC 8°

### Cable length

01	1 meter
02	2 meters
03	3 meters
05	5 meters
10	10 meters
15	15 meters
20	20 meters
25	25 meters
30	30 meters

- Standard Configuration by default for 1.8mm  
 Jacket color : Yellow  
 buffer color : milky white or transparent  
 250 µm color : natural or milky white

### Connector type at end 2<sup>1</sup>

Standard C grade	Superior B grade	Type
S1	SF	SC/UPC
S2	SG	SC/APC 8°
S3	-	SC/APC 9°
L1	LF	LC/UPC
L2	LG	LC/APC
-	EC	LSH/APC 8°

<sup>1</sup> For hybrid patch cords, connectors 1 and 2 must be the same grade.

### Cable type

Cable type			Fiber type
ASIA	1.8 mm simplex	LSZH jacket	A1
ASHA	1.8 mm duplex	LSZH jacket	A1
HSIA	1.8 mm simplex	LSZH jacket	A2
HSHA	1.8 mm duplex	LSZH jacket	A2

# COMMScope®

commscope.com

Visit our website or contact your local CommScope representative for more information.

© 2023 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see <https://www.commscope.com/trademarks>. All product names, trademarks and registered trademarks are property of their respective owners.