



Single-Mode Cable Assemblies

Pigtails and Jumpers

Single-mode 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. For special applications, pigtailed are available factory-stripped and with a pre-installed protection tube for precise length adjustment to a single element splice tray.

Jumpers 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 insertion losses are required, for example to cover extra distance
- All connectors are built with full ceramic ferrules and tuned for best compatibility and performance
- CommScope's standard single-mode fiber is according to ITU-T G.657.A1
- For all single-mode connectors used on the pigtailed and jumpers, corresponding adapters are available and can be ordered separately

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Optical Performance

	Standard connectors	Superior connectors
Grade according to IEC 61755-1	C	B
Insertion loss Random mated for 97% Random mated average Against reference ¹	≤ 0.50 dB ≤ 0.25 dB ≤ 0.45 dB	≤ 0.25 dB ≤ 0.12 dB ≤ 0.25 dB
Return loss Random mated for UPC ² Random mated for APC ³	> 50 dB > 60 dB	> 50 dB > 60 dB
Operational temperature range	-40°C ... +70°C	-40°C ... +70°C

¹ Checked at 1310, 1550 and 1625 nm

² UPC = ultra polished physical contact

³ APC = angled polished physical contact

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

Ordering Information

Ruggedized Pigtails

OCP - XX - XX M XXXX- XX

Connector/Adapter type

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
-	E9	E2000/APC

Cable type

ASIA	1.8mm simplex	LSZH jacket
ASHA	1.8mm duplex	LSZH jacket

Cable length

06	6 meters
20	20 meters

900µm Transparent Pigtails

OCP - XX - XX M XXXX- XX

Connector/Adapter type

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
-	E9	E2000/APC

Cable type

ASEN	900µm	Semi-tight jacket
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Cable length

02	2 meters
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Jumpers

OCJ - XX - XX M XXXX- XX

Connector type at end 1

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
-	E9	E2000/APC

Connector type at end 2¹

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
-	E9	E2000/APC

¹ For hybrid patch cords, connectors 1 and 2 must be the same grade.

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

Cable type

ASIA	1.8mm simplex	LSZH jacket
ASHA	2x1.8mm duplex	LSZH jacket

For additional connector styles, minimum order quantities and pricing, please contact your local sales person.



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