

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, pigtails 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 pigtails and jumpers, corresponding adapters are available and can be ordered separately

Optical Performance

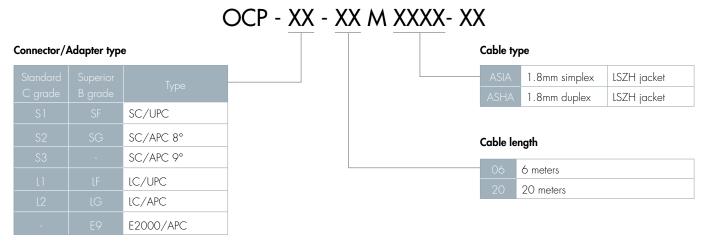
	Standard connectors	Superior connectors
Grade according to IEC 61755-1	С	В
Insertion loss Random mated for 97% Random mated average Against reference ¹	≤ 0.50 dB ≤ 0.25 dB ≤ 0.45 dB	≤ 0.25 dB ≤ 0.12 dB ≤ 0.25 dB
Return loss Random mated for UPC ² Random mated for APC ³	> 50 dB > 60 dB	> 50 dB > 60 dB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

¹ Checked at 1310, 1550 and 1625 nm

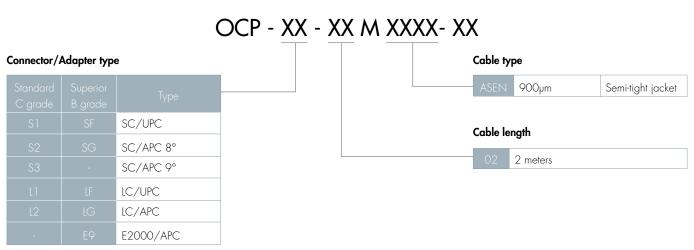
For information on other grade connectors, please contact your local CommScope sales representative.

Ordering Information

Ruggedized Pigtails



900µm Transparent Pigtails



 $^{^{2}}$ UPC = ultra polished physical contact

³ APC = angled polished physical contact

Jumpers

OCJ - XX - XX M XXXX- XX

Connector type at end 1

Standard C grade	Superior B grade	Туре
S1		SC/UPC
S2		SC/APC 8°
S3		SC/APC 9°
L1		LC/UPC
L2	LG	LC/APC
-		E2000/APC

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

Connector type at end 2^{1}

Standar C grad	Туре
S1	SC/UPC
S2	SC/APC 8°
S3	SC/APC 9°
L1	LC/UPC
L2	LC/APC
-	E2000/APC

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

Cable type

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

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



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