

# 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

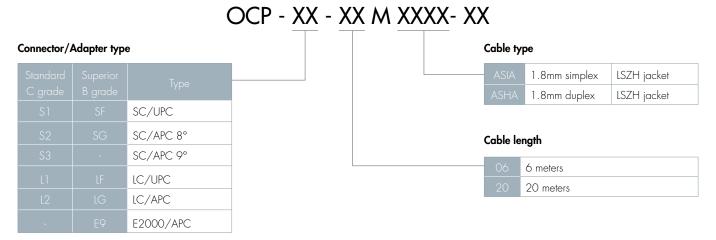
	Standard connectors	Superior connectors
Grade according to IEC 61755-1	С	В
Insertion loss Random mated for 97% Random mated average Against reference <sup>1</sup>	≤ 0.50 dB ≤ 0.25 dB ≤ 0.45 dB	≤ 0.25 dB ≤ 0.12 dB ≤ 0.25 dB
Return loss Random mated for UPC <sup>2</sup> Random mated for APC <sup>3</sup>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

<sup>&</sup>lt;sup>1</sup> Checked at 1310, 1550 and 1625 nm

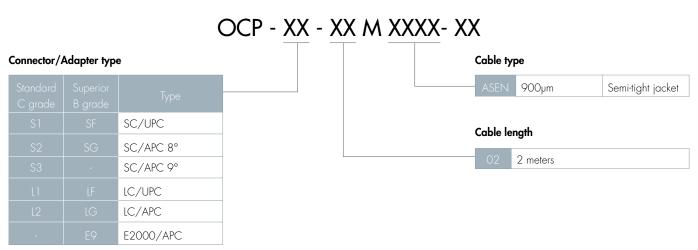
For information on other grade connectors, please contact your local CommScope sales representative.

### Ordering Information

## Ruggedized Pigtails



## 900µm Transparent Pigtails



 $<sup>^{2}</sup>$  UPC = ultra polished physical contact

<sup>&</sup>lt;sup>3</sup> 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		LC/APC
-		E2000/APC

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

		SC/UPC
	SG	SC/APC 8°
		SC/APC 9°
	LF	LC/UPC
		LC/APC
	E9	E2000/APC

<sup>1</sup> 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

	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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