



# Single-mode cable assemblies

## Pigtails and jumpers

Single-mode fiber optic cable assemblies are designed for use in telecommunications, CATV, datacommunications 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 (such as FIST boxes) pigtails are available which are factory stripped up and have a pre-installed FOPT transportation tube for precise length adjustment to the single element 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

- TE Connectivity offers two ranges of cable assembly specifications according to IEC 61755-1:
  - Grade C as a standard quality for use in Data centers and FTTX application as a cost effective connection
  - Grade B as a superior quality for use in CATV, PONs and WDM Networks
- All connectors are built with full ceramic ferrules and tuned for best compatibility and performance
- TE's standard single mode fiber is according to ITU-T G.657.A1
- For all single-mode connectors used on the pigtails and jumpers the matching adapters are available and can be ordered separately

## Optical performance

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

<sup>1)</sup> Checked at 1310, 1550 and 1625 nm

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

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

## Ordering information single-mode pigtails and jumpers

**OC X - XX - XX X XXXX - XX -(100)**

**Cable assembly**

**P** Pigtail  
**J** Jumper

**Connector type at end 1**

	Standard (grade C)	Superior (Grade B)
SC/UPC	S1	SF
SC/APC8°	S2	SG
SC/APC9°	S3	--
LC/UPC	L1	LF
LC/APC	L2	LG
FC/UPC	F1	--
FC/APC	F2	--
E2000/APC *)	--	E9

\*) see separate data sheet for Premium E2000/APC

**Cable length**

**01, 02, ... 10, 11, ...** Always use 2 digits

**Bulk option**

**Connector type at end 2**

Use same options as for connector type at end 1  
Select **XX** in case of a pigtail

**Cable type**

<b>ASAA</b>	3,0 mm simplex	LSZH jacket
<b>ASBA</b>	3,0 mm duplex	LSZH jacket
<b>ASCA</b>	2,4 mm simplex	LSZH jacket
<b>ASIA</b>	1,8 mm simplex	LSZH jacket
<b>ASHA</b>	1,8 mm duplex	LSZH jacket
<b>ASEN</b>	0,9 mm	semi tight jacket
<b>ASEE</b>	0,9 mm + 0,55 mm	semi tight jacket
	FOPT tubing	

**Cable length unit**

**M** Meter  
**D** Decimeter (only for jumpers)

**Notes:** In case of a hybrid jumper, sort the connector type codes alphanumerical. In case of duplex cables with connector types SC or LC the connectors are combined by using a duplex clip. For bulk packaging of 100 pcs, add "-(100)" to the name string.

### Ordering examples

Cable assembly	Quantity	Ordering information	Packaging
Pigtail, SC/UPC, grade C, 0,9 mm, length 2 m	1 pc	1x OCP-S1-02MASEN-XX	1 pigtail in 1 plastic bag
	50 pc	50x OCP-S1-02MASEN-XX	50 pigtails, each in 1 plastic bag
	100 pc	100x OCP-S1-02MASEN-XX-(100)	1 box with 100 pigtails
	200 pc	200x OCP-S1-02MASEN-XX-(100)	2 boxes with 100 pigtails each
Jumper, E2000/APC-SC/APC, grade B, 1,8 mm, length 2,5 m	1 pc	1x OCJ-E9-25DASIA-SG	1 jumper in 1 plastic bag

**For more technical options and order quantity information, please consult the products ordering guides or your local sales representative.**

FIST, TE (logo) and TE Connectivity are trademarks of the TE Connectivity group of companies and its licensors.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

Tyco Electronics Raychem bvba

Diestsesteenweg 692

3010 Kessel-Lo, Belgium

Tel 32-16 351 011 (USA) 1-919-557-8900

Fax 32-16 351 697 (USA) 1-919-557-8498

www.te.com

www.telecomnetworks.com

TC 536/DS/14 09/11

