

## PRODUCT SPECIFICATIONS

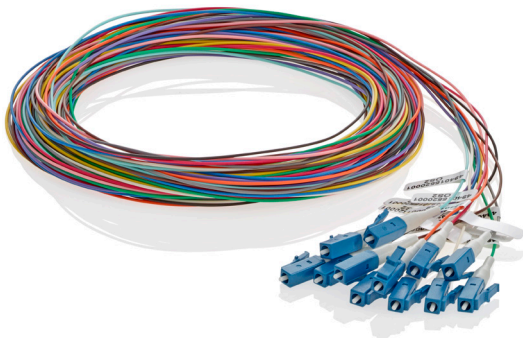
### Premium Plus Fiber Pigtails and Pigtail Kits



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### APPLICATION

Premium Plus Fiber Optic Pigtails and Pigtail Kits are ideal for fusion splicing the required fiber connectivity in data centers, Broadband CATV, Passive Optical Network PON, WDM or DWDM multiplexing, FTTh and voice services in ATM and SONET metropolitan and access networks. Quick turn service is available with orders of up to 100 Pigtails or 20 Pigtail Kits, and ships within three business days. Contact customer service for details.



### SPECIFICATION

Multimode and single-mode pigtails shall be manufactured in the U.S.A. Pigtail shall be compliant with ANSI/TIA-568.3-D. Insertion loss shall be a maximum of 0.25 dB for multimode and single-mode. Multimode return loss shall be greater than 26 dB and greater than 50 dB for single-mode connectors. Single-mode angle polished connectors (APC) shall have a minimum of 60 dB return loss. Pigtails shall have a pull force of 5 N  $\pm$  0.5 (1.12 lb.) per IEC 61300-2-44. Connector durability of greater than 500 matings for both multimode and single-mode. Pigtails or kits of pigtails shall be individually packaged with part numbers, descriptions, optical performance, code 39 barcode part number printed on each package and QR code to access supporting documentation. Individual pigtails shall have flag labels including fiber type and serial number providing traceability to factory collected test data.

### WARRANTY INFORMATION

For Leviton product warranties, go to [leviton.com/warranty](http://leviton.com/warranty)

### COUNTRY OF ORIGIN

USA

### FEATURES

- Available LC, LC/APC, SC, SC/APC, ST, FC and FC/APC connector options
- Pigtails kits of 6, 8, 12 or 16 following TIA color sequence
- TIA color-coded LC and SC connectors with white 900-micron boots
- Fiber options: OS2, OM1, OM3, and OM4
- 100% tested for insertion loss and single mode return loss
- Premium Plus Series cords include a Limited Lifetime Warranty when used with other Leviton cabling and installed by a Leviton certified contractor
- Quick-turn service for fast delivery
- Custom configurations via [Leviton.com/configurator](http://Leviton.com/configurator)

### DESIGN CONSIDERATIONS

- All connectors have precision pre-radiused or pre-angled zirconia ferrules for consistent End Face Geometry (EFG)
- Single mode UPC and APC polish
- FC and ST connectors have metal bodies
- Duplex clips included with duplex configurations
- Bend-insensitive glass (OS2, OM3 and OM4)

### STANDARDS & REGULATIONS

- ANSI/TIA-568.3-D Optical Fiber Cabling and Components Standard
- ANSI/TIA-455-171-B FOTP-171 Attenuation by Substitution Measurement for Short Length Multimode Graded Index and Single-Mode Optical Fiber Cable Assemblies
- IEC 61300-3-34: Attenuation of Random Mated Connectors
- IEC 61300-3-6: Return Loss of Random Mated Connectors
- ANSI/TIA-598-D Optical Fiber Cable Color Coding
- ISO/IEC 11801-1, -2, -3, -5 Information technology — Generic cabling for customer premises
- TIA/EIA-604-10 (LC: FOCIS 10), TIA/EIA-604-3 (SC: FOCIS 3), TIA/EIA-604-2, (ST: FOCIS 2), TIA/EIA-604-4 (FC: FOCIS 4)
- Endface Geometry per IEC61755-3-1 (PC ferrules) and IEC61755-3-2 APC ferrules
- RoHS

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**Premium Plus Fiber Pigtails and Pigtail Kits**



**OPTICAL SPECIFICATIONS**

Insertion Loss		
Multimode	0.15 dB typical, 0.25 dB max	
Single mode	0.12 dB typical, 0.25 dB max	
Return Loss		
Multimode	≥ 26 dB	
Single mode	≥ 50 dB UPC, ≥ 60 dB APC	

**PHYSICAL SPECIFICATIONS**

Connector Durability	> 500 Matings
Connector Cable Retention	5 N ± 0.5 (1.12 lb.)
Temperature Range	
Storage:	-40 C to +75 C
Operational:	-20 C to +70 C

Optical Fiber	Type	Compliance
OS2 Single Mode	SMF-28 Ultra	ITU-T Recommendation G.652.D compliant
OM1 Multimode	InfiniCor 300	Laser-optimized™ 62.5 μm multimode fiber
OM3 Multimode	ClearCurve OM3	TIA/EIA 492AAA-B, ITU G651.1 Compliant
OM4 Multimode	ClearCurve OM4	TIA/EIA 492AAAD, ITU G651.1 Compliant

**PERFORMANCE SPECIFICATIONS**

FIBER PERFORMANCE											
Fiber Type	Maximum Attenuation (dB/km)				Bandwidth (MHz*km)		Transmission Distance (meters)				
	850 nm	1300 nm	1310 nm	1550 nm	850 nm	1300 nm	100 Mb	1 GbE	10 GbE	40 GbE	100 GbE
8.2/125 μm Single-mode (OS2)	N/A	N/A	0.4	0.3	N/A	N/A	>5,000 @ 1310 nm		>10,000 @ 1310 nm	N/A	N/A
62.5/125 μm MM (OM1)	3.5	1.0	N/A	N/A	200	500	300/300 @ 850/1300 nm	300/600 @ 850/1300 nm	36/300 @ 850/1300 nm	N/A	N/A
50/125 μm LO (10G-300m) MM (OM3)	3.0	1.0	N/A	N/A	2,000*	500**		1,000/600 @ 850/1300 nm	300/300 @ 850/1300 nm	100 @ 850 nm	100 @ 850 nm
50/125 μm LO (10G-550m) MM (OM4)	3.0	1.0	N/A	N/A	4,700*	500**		1,040/600 @ 850/1300 nm	550/300 @ 850/1300 nm	150 @ 850 nm	150 @ 850 nm

\* The effective modal bandwidth is determined based on an overfill launch (OFL) per ANSI/TIA-455-204, except on laser-optimized fiber types.

\*\* 10GbE transmission @ 1,300 nm only applies to 10GBASE-LX4 (CWDM)

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Premium Plus Fiber Pigtails and Pigtail Kits

Make to order!			PREMIUM PLUS FIBER PIGTAILS AND PIGTAIL KITS				
Assembly Type	Fiber Type	Cable Rating	Cable Type	Connector (1st end)	Kits or Singles	Colors in tia Order	Length**
<ul style="list-style-type: none"> <li>Premium Plus Pigtail Single (PSF)</li> <li>Premium Plus Pigraill Kit (PKF)</li> </ul>	<ul style="list-style-type: none"> <li>8.2 /125um SM OS2 (S2)</li> <li>62.5/125 µm MM OM1 (M1)</li> <li>50/125 µm LO (10G-300m)</li> <li>MM OM3 (M3)</li> <li>50/125 µm LO (10G-550m)</li> <li>MM OM4 (M4)</li> </ul>	<ul style="list-style-type: none"> <li>PVC (No Rating) (N)</li> </ul>	<ul style="list-style-type: none"> <li>900-micron tight buffer (9)</li> </ul>	<ul style="list-style-type: none"> <li>ST (A)</li> <li>SC (Q)</li> <li>SC/APC (E)</li> <li>LC (R)</li> <li>LC/APC (F)</li> <li>FC (D)</li> <li>FC/APC (G)</li> </ul>	<ul style="list-style-type: none"> <li>Singles* (01)</li> <li>12 pack of color selected * (00)</li> <li>6 pack of TIA Colors 1-6 (06)</li> <li>8 pack of TIA Colors 1-8 (08)</li> <li>12 pack of TIA Colors 1-12 (12)</li> <li>16 pack of TIA Colors 1-16 (16)</li> </ul>	<ul style="list-style-type: none"> <li>Blue (01)</li> <li>Orange (02)</li> <li>Green (03)</li> <li>Brown (04)</li> <li>Slate (05)</li> <li>White (Default for Singles) (06*)</li> <li>Red (07)</li> <li>Black (08)</li> <li>Yellow (09)</li> <li>Violet (10)</li> <li>Rose (11)</li> <li>Aqua (12)</li> <li>Olive (13)</li> <li>Magenta (14)</li> <li>Tan (15)</li> <li>Lime (16)</li> </ul>	<ul style="list-style-type: none"> <li>1 METER (01)</li> <li>2 METERS (02)</li> <li>3 METERS (03)</li> </ul>

For assistance customizing your trunk cables, please visit [leviton.com/configurator](http://leviton.com/configurator) or call Tech Support at 800.824.3005.

\*Note on colors: The standard color is white for singles and pack of 12 singles. Other colors are available with longer lead times.

\*\*Note on length: Pigtails and Pigtail Kits > 3 meters in length are available upon request.



For further support information, visit [leviton.com/ns/support](http://leviton.com/ns/support)

### NETWORK SOLUTIONS GLOBAL HEADQUARTERS

Bothell, WA, USA | [leviton.com/ns](http://leviton.com/ns)  
 (800) 824 3005 / +1 (425) 486 2222 | [appeng@leviton.com](mailto:appeng@leviton.com)

### NETWORK SOLUTIONS EUROPEAN HEADQUARTERS

Glenrothes, UK | [leviton.com/ns/emea](http://leviton.com/ns/emea)  
 +44 (0) 1592 772124 | [customerserviceeu@leviton.com](mailto:customerserviceeu@leviton.com)

Leviton is dedicated to designing, developing and manufacturing sustainable high-performance structured cabling and speciality cabling solutions. Network Solutions products are available worldwide in over 100 countries. Visit us online to learn more.