

# TracerLight™

## Connector Identification System



ADC's innovative TracerLight® Connector Identification System offers a quick and accurate method of identifying the termination point of optical patch cords. Each end of a TracerLight patch cord features a flashing light source allowing technicians to visually trace individual patch cords from one end to the other without pulling or affecting the patch cord.

The TracerLight power source is inserted into the TracerLight component on one end of the patch cord. This causes the LED on each end to begin flashing rapidly. As a result, the distant end of the patch cord can be quickly and easily identified without interruption of service.

The compact power source is composed of a lightweight, plastic flashlight body featuring two AA batteries and a printed circuit board (PCB). It provides approximately 80 hours of continuous service and features 1-hour auto-off. The end of battery life is indicated by a slowing of the blink rate.

### Features:

- Dramatically minimizes the risk of taking the wrong fiber out of service
- Improves system turn-up speed and accuracy
- TracerLight patch cords meet all optical performance criteria of standard ADC patch cords
- Ideally suited for Central Offices, Data Centers and cross-connect patching
- 72% reduction in jumper turn-up times and 13% reduction in accidental down-time. TracerLight pays for itself again and again
- Available in any standard length or connector style
- Same functions, features and stringent environmental standards as ADC's standard patch cords
- Installed in the same manner as ADC's standard patch cords
- Easily pulled through ADC's FiberGuide® fiber cable management system

SPEC SHEET



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# TracerLight®

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### Specifications

#### OPTICAL PERFORMANCE

Singlemode Ultra Polish Connectors (UPC)	SC	FC	LC
<b>Insertion Loss (1310 and 1550 nm)</b>	0.2 dB max. 0.09 dB typical	0.2 dB max. 0.09 dB typical	0.3 dB max. 0.1 dB typical
<b>Return Loss (1310 and 1550 nm)</b>	57 dB min.	57 dB min.	55 dB min.
<b>Fiber Recess</b>	± 50 nm	± 50 nm	-100 to +50 nm
<b>Apex Offset</b>	50 µm max.	50 µm max.	50 µm max.
<b>Radius of Curvature</b>	10-25 mm	10-25 mm	10-25 mm

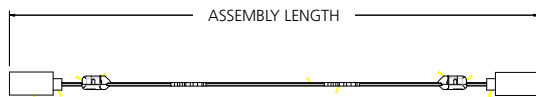
Singlemode Angled Polish Connectors (APC)	SC		LC
<b>Insertion Loss (1310 and 1550 nm)</b>	0.35 dB max. 0.15 dB typical		0.35 dB max. 0.15 dB typical
<b>Return Loss (1310 and 1550 nm)</b>	65 dB min.		65 dB
<b>Polished Endface Radius</b>	5 - 15 mm		5 - 12 mm
<b>Fiber Recess</b>	-100 to +50 nm		±50 nm
<b>Apex Offset</b>	50 µm		±50 µm
<b>Endface Angle</b>	8° ± 0.5		8°

Multimode Ultra Polish Connectors	SC		LC
<b>Insertion Loss (1310 nm)</b>	0.3 dB max.		0.3 dB max.
<b>Return Loss (1310 nm)</b>	20 dB min.		20 dB max.

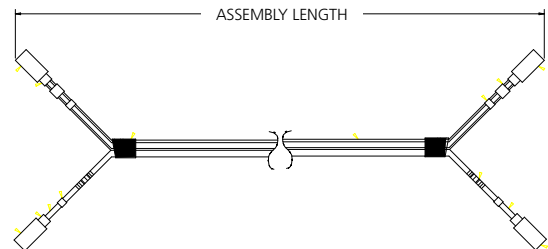
#### MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Every patch cord manufactured by ADC is designed to pass rigorous qualification testing that includes: EIA/TIA Industry Standards according to Fiber Optic Test Procedures (FOTP).

Item Specifications	EIA/TIA Test	Item Specifications	EIA/TIA Test
<b>Temperature shock</b>	FOTP-3	<b>Cable flex</b>	FOTP-1A
<b>Humidity</b>	FOTP-5	<b>Cable retention</b>	FOTP-6
<b>Temperature life</b>	FOTP-4	<b>Cable twist</b>	FOTP-36
<b>Mating durability</b>	FOTP-21	<b>Impact</b>	FOTP-2
<b>Vibration</b>	FOTP-11		



TracerLight Simplex Assembly



TracerLight Duplex Assembly

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### Singlemode or Multimode Patch Cords (Simplex and Duplex)

#### SIMPLEX

**Catalog Number**  
FTL- / - M

Connector Style (first end)	
<b>Singlemode</b>	
7	SC ultra polish
E	SC angled polish
2	FC ultra polish
C	LC ultra polish
M	LC angled polish
<b>Multimode</b>	
9	SC
P	LC

Connector Style (second end)	
<b>Singlemode</b>	
7	SC ultra polish
E	SC angled polish
2	FC ultra polish
C	LC ultra polish
M	LC angled polish
<b>Multimode</b>	
9	SC
P	LC

Assembly Length	
001-020	1-20 meters in 1 meter increments
025-065	25-65 meters in 5 meter increments
070-150	70-150 meters in 10 meter increments

Cable Type (1.7 mm)	
<b>Singlemode</b>	
D	Standard singlemode (yellow)
P	Reduced bend radius singlemode (blue)
<b>Multimode</b>	
A	50/125 μm multimode (orange)
J	50/125 μm laser optimized to 300 m multimode (aqua)
G	62.5/125 μm multimode (orange)

**Ordering Examples**  
*FTL-7/7-D003M*: Singlemode simplex patch cord with SC connectors on both ends, 3 meters in length.  
*FTL-9/9-A005M*: Multimode simplex patch cord with SC connectors on both ends using 50/125 μm fiber, 5 meters in length.

#### DUPLEX

**Catalog Number**  
FTL- M

Connector Style (first end)	
<b>Singlemode</b>	
7	SC ultra polish
E	SC angled polish
2	FC ultra polish
C	LC ultra polish
M	LC angled polish
<b>Multimode</b>	
9	SC
P	LC

Connector Style (second end)	
<b>Singlemode</b>	
7	SC ultra polish
E	SC angled polish
2	FC ultra polish
C	LC ultra polish
M	LC angled polish
<b>Multimode</b>	
9	SC
P	LC

Assembly Length	
001-020	1-20 meters in 1 meter increments
025-065	25-65 meters in 5 meter increments
070-150	70-150 meters in 10 meter increments

Cable Type (1.7 mm)	
<b>Singlemode</b>	
Z	Dual zip singlemode (yellow)
R	Reduced bend radius dual zip singlemode (blue)
<b>Multimode</b>	
E	50/125 μm dual zip multimode (orange)
K	50/125 μm laser optimized to 300 m multimode (aqua)
H	62.5/125 μm dual zip multimode (orange)

**Ordering Examples**  
*FTL-7CZ010M*: Singlemode dual zip patch cord with SC to LC connectors, 10 meters in length.  
*FTL-PPE010M*: Multimode dual zip patch cord with LC connectors on both ends using 50/125 μm fiber, 10 meters in length.

Other connector styles are available upon request. Please contact ADC Technical Assistance Center.

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TracerLight Power Source  
FTL-PS

### Ordering Information

Description	Catalog Number
TracerLight Power Source	FTL-PS
TracerLight Plus Launch Cable (for use with a tone generator)	FTL-TGLC

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#### Web Site: [www.adc.com](http://www.adc.com)

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