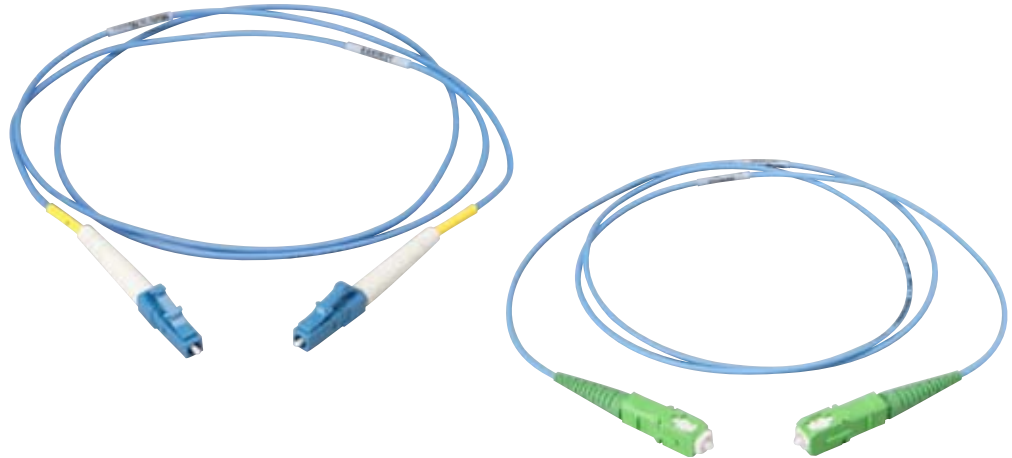


Singlemode Reduced Bend Radius

Optical Fiber Patch Cords



ADC's family of singlemode reduced bend radius optical fiber patch cords have a bend radius that is half that of standard singlemode patch cords without changing attenuation characteristics of the cable. Designed for uses that range from the central office to FTTX deployments to OEM applications, reduced bend radius cables are best suited for environments where there is increased handling and movement of cables or where space is tight. While these cables offer the benefit of tighter bends, a complete system of fiber cable management—defined routing paths, ample access to connectors and cable, complete physical protection, and bend radius protection against macrobends and microbends—is still required to maintain network reliability, ensure maximum throughput and control operating costs.

ADC's singlemode reduced bend radius patch cords have a bend radius of 15 mm, are stringently tested for insertion loss and return loss at the factory and are backwards compatible with standard singlemode fiber. ADC offers ultra physical contact (UPC) polish on the SC, FC, and LC connector styles or angled physical contact (APC) on the LC and SC connector styles. (APC should be used in applications that require better control of return loss) ADC maintains tight tolerances regarding the rotation of the ferrule to maintain low insertion loss values.

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Singlemode Reduced Bend Radius Patch Cords

TracerLight® Connector Identification System

SM Reduced Bend Radius Patch Cords
3/08 • 104642AE



TracerLight Connector Identification System

Power Source and Patch Cords

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 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 easily attached to 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 or disturbance of the optical signal path.

Available in any standard length or connector style, TracerLight patch cords have the same functions, optical performance and stringent environmental requirements as our standard patch cords. TracerLight patch cords are installed in the same manner as standard patch cords and can be pulled through ADC's FiberGuide® fiber cable management system with ease.

The compact power source is comprised 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.



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

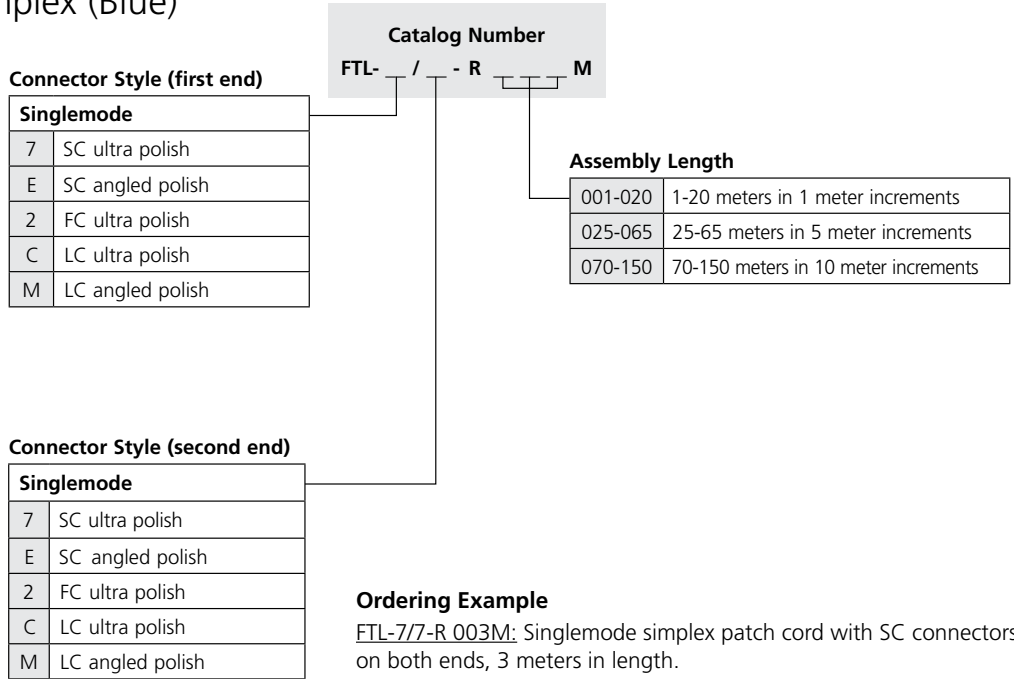


Singlemode Reduced Bend Radius Patch Cords

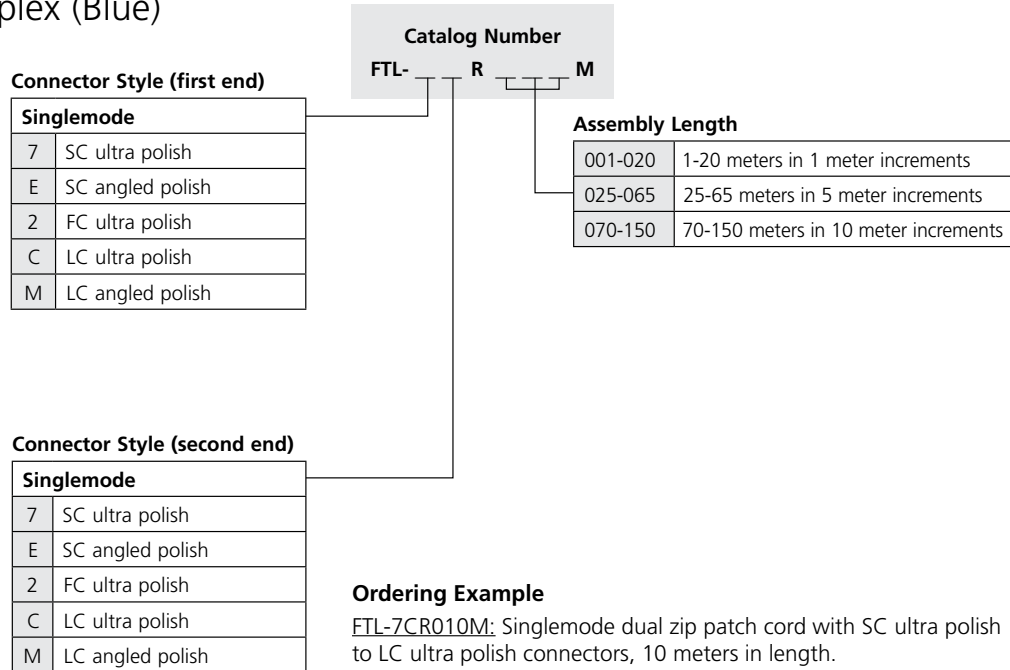
TracerLight® Connector Identification System

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Simplex (Blue)



Duplex (Blue)



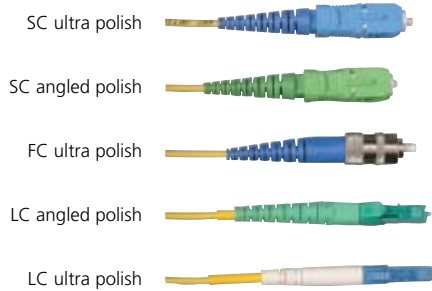
Other connector styles are available upon request. Please contact ADC Technical Assistance Center.



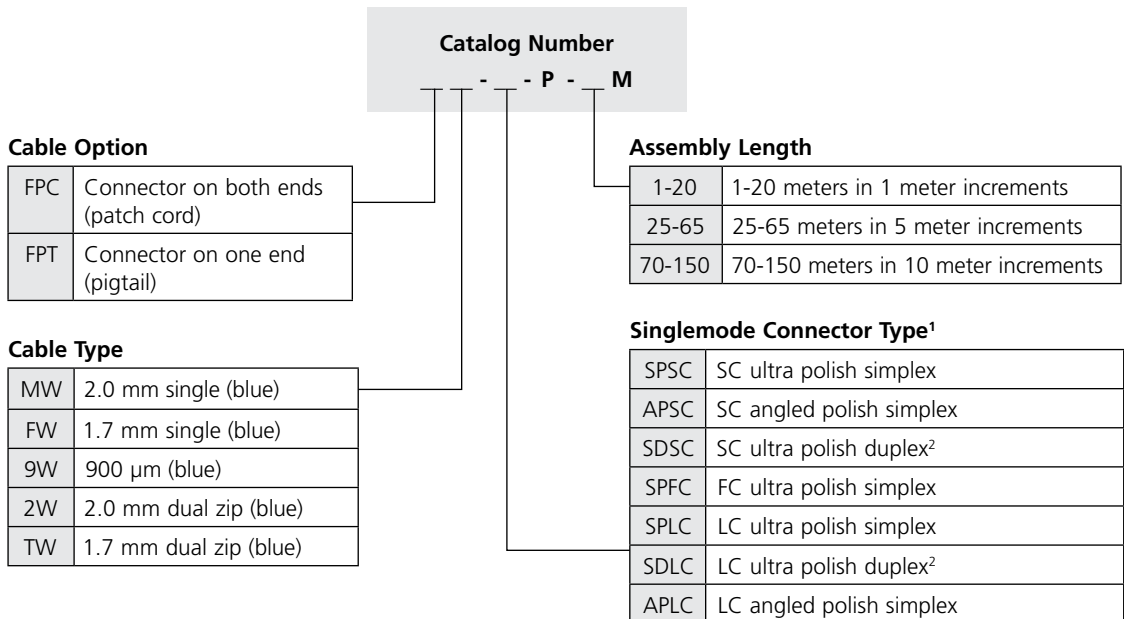
Singlemode Reduced Bend Radius Patch Cords

Standard Patch Cords (Simplex and Duplex)

SM Reduced Bend Radius Patch Cords



Connector Types



Ordering Examples

FPC2W-SPSC-P-10M: Singlemode 2.0 mm dual zip patch cord with SC ultra polish connectors on both ends, 10 meters in length with standard breakout length of 0.31 m (12") on both ends.

¹ **For hybrid patch cords**, enter both connector types in this field and separate them with a slash mark; remove 's' from the ultra polish option.

FPCFW-SPSC/PLC-P-10M: Singlemode 1.7 mm simplex patch cord with SC ultra polish connector on one end and LC ultra polish connector on the other end, 10 meters in length.

² One connector per end; requires dual zip cable

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

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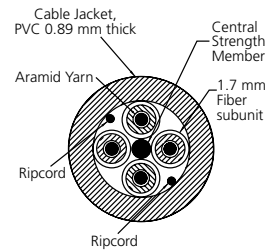


Singlemode Reduced Bend Radius Patch Cords

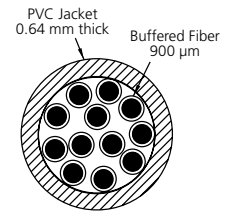
Standard Multifiber Patch Cords (4 to 24 fibers)

Singlemode multifiber patch cords are available with 4, 8, 12 or 24 tight buffered 1.7 mm fibers enclosed in a standard wall outer jacket. Each 1.7 mm fiber is coded for easy identification of individual fibers. Central strength member, and aramid yarn; PVC jacket thickness 0.89 mm.

Patch cords are also available with 4, 8, 12 or 24 tight buffered 900 μm fibers with a thin 2 mm softwall outer jacket. No central strength member or aramid yarn; PVC jacket thickness 0.64 mm.



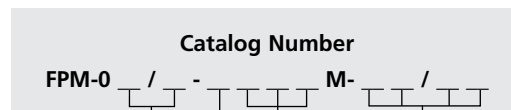
Standard Wall
(4-Fiber Shown)



Soft Wall
(12-Fiber Shown)

SM Reduced Bend Radius Patch Cords

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Connector Type (1st and 2nd end)

0	Stub (only on 2nd end)
7	SC ultra polish
E	SC angled polish
2	FC ultra polish
K	LC ultra polish
M	LC angled polish

Breakout Length

X Length in inches
Leave blank if both ends 0.31 m (12")

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

R	4-fiber reduced bend radius with 1.7 mm subunits (blue)
N	8-fiber reduced bend radius with 1.7 mm subunits (blue)
FP	12-fiber reduced bend radius with 1.7 mm subunits (blue)
GP	24-fiber reduced bend radius with 1.7 mm subunits (blue)

Ordering Example

FPM-07/0-R005M: Singlemode multifiber patch cord with SC ultra polish connectors on one end, no connectors on the other end (pigtail), 4-fiber, 5 meters long with standard breakout.

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



Singlemode Reduced Bend Radius Patch Cords

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Specifications

OPTICAL PERFORMANCE

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

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

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
Temperature shock	FOTP-3	Cable flex	FOTP-1A
Humidity	FOTP-5	Cable retention	FOTP-6
Temperature life	FOTP-4	Cable twist	FOTP-36
Mating durability	FOTP-21	Impact	FOTP-2
Vibration	FOTP-11		

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Fax: +1-952-917-3237 • For a listing of ADC's global sales office locations, please refer to our Web site.

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