What are the types of single-mode pigtail fibers from West Asia



Overview

What are the types of single-mode pigtail fibers from West AsiaIn addition to the above types of fiber pigtails, there are bundled pigtails and ribbon pigt.

Key Takeaways

Single-mode pigtail fibers in West Asia typically include OS1 and OS2 types with various connector, polish, and environmental options suitable for indoor, outdoor, and high-density applications.Fiber Type
• OS1: Indoor, tight-buffered, optimized for distances up to 2 km, commonly used in telecom rooms and FTTH networks. Jacket color is usually yellow.

• OS2: Outdoor or long-haul, loose-tube construction, optimized for distances of 10 km or more, suitable for carrier networks and long-distance links. Jacket color is yellow as well .
Connector Types

Single-mode pigtails are available with a wide range of connectors to match equipment interfaces:

• LC: Small form factor, duplex-friendly, widely used in data centers and FTTH.

• SC: Square push-pull connector, common in telecom and FTTH applications.

• FC: Screw-type, secure connection, often used in lab or testing environments.

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• ST: Bayonet-style, used in legacy networks.

• E2000, SN, CS, MDC: Specialized connectors for high-performance or industrial applications .
Polish Types
• UPC (Ultra Physical Contact): Low insertion loss, suitable for digital networks.

• APC (Angled Physical Contact): Reduces return loss by 10–20 dB, critical for analog video, CATV, DWDM, and GPON FTTH networks .
Buffer Diameter and Construction
• Tight-buffered: 0.9 mm, 2.0 mm, or 3.0 mm outer diameter, suitable for indoor splice trays and closures.

• Armored: Metal layer for protection against crushing or impact, ideal for industrial or outdoor-access panels.

• Waterproof: Stainless steel armored PE sheathing with waterproof connector housings for outdoor or harsh environments .
Environmental Variants
• Indoor pigtails: Lightweight, flexible, used in protected environments like ODF panels and splice trays.

• Armored pigtails: Extra protection for high-traffic or industrial areas.

• Waterproof pigtails: Designed for outdoor exposure, resistant to moisture and corrosion .
Summary

In West Asia, single-mode pigtail fibers are generally OS1 or OS2, with LC, SC, FC, ST, or E2000 connectors, UPC or APC polish, and various buffer diameters. They are available in indoor, armored, and waterproof variants, making them suitable for FTTH, telecom, data centers, and long-haul networks. Proper selection depends on the application, distance, and environmental conditions.

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