

Armored Patch cord SC UPC to SC UPC 3.00mm simplex SM

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Variants

3M 5M 2M 1M 10M

Details

Single Mode SC/UPC to SC/UPC Simplex Indoor Armored Fiber Optic Cable

Armored fiber optic cable with built-in metal armor can provide stronger protection from optical fibers than standard fiber optic cables. The rugged armored cables allow optical fiber to be installed in the most hazardous areas, including environments with slight dust, oil, gas, moisture, or even damage-causing rodents and pests.

Specifications

Connector Type	
SC to SC	
Polish Type	
UPC to UPC	
Fiber Mode	
OS2 9/125?m	
Fiber Count	
Simplex	

Fiber Grade

G.657.A1

Min. Bend Radius

10/5D (Dynamic/Static)

Cable Outside Diameter (OD)

3.0mm

Cable Jacket

PVC (OFCR)

Fiber Cords Structure

Single Armored, Stainless Steel Tube

Tensile Load

120/225N (Long/Short Term)

Insertion Loss

≤0.3dB

Return Loss

≥50dB

Operating Temperature

-25 to 70°C (-13 to 158°F)

Storage Temperature

-25 to 70°C (-13 to 158°F)

Product Description: Armored Patch Cord SC UPC to SC UPC 3.00mm Simplex SM

Introduction: The **Armored Patch Cord SC UPC to SC UPC 3.00mm Simplex SM** is a robust and high-performance fiber optic cable designed for secure and reliable single-mode (SM) data transmission. This patch cord features **SC UPC (Ultra Physical Contact)** connectors on both ends, ensuring minimal signal loss and excellent performance for high-speed networks. The **3.00mm armored jacket** provides additional protection against physical damage such as abrasion, impact, and rodent interference, making it ideal for use in harsh environments like outdoor installations or industrial applications. Its Simplex configuration is optimized for single-fiber transmission, providing an effective solution for high-performance fiber optic connectivity.

Technical Parameters:

Connector Type: SC UPC to SC UPC (Ultra Physical Contact)

Cable Type: Simplex

Cable Diameter: 3.00mm

Cable Length: Available in custom lengths (specifically designed for various needs)

Fiber Mode: Single-mode (SM)

Fiber Type: OS2 (Single-Mode Fiber)

Insertion Loss: 0.3 dB (typical)

Return Loss: >50 dB (typical for SC UPC connectors)

Operating Temperature: -40°C to +75°C

Storage Temperature: -40°C to +85°C

Compliance: RoHS Compliant, UL Listed

Attenuation: 0.4 dB/km (at 1310nm)

Key Features:

SC UPC Connectors: The **SC UPC connectors** provide excellent insertion loss performance and high return loss, ensuring minimal signal loss and better overall network performance.

Armored Protection: The **3.00mm armored jacket** provides superior physical protection against environmental factors, such as abrasion, cuts, and rodent damage, making the cable perfect for use in both outdoor and industrial applications.

Simplex Configuration: The **Simplex design** offers one-way fiber transmission, ideal for applications requiring single-fiber connectivity, such as patch panels or telecommunications systems.

Single-Mode OS2 Fiber: Designed for long-distance, high-speed transmission, the **OS2 single-mode fiber** ensures minimal signal attenuation, providing reliable performance over extended distances.

Durability and Flexibility: The armored construction provides durability, while the flexible design allows easy routing through tight spaces, without compromising on long-term reliability.

Product Advantages:

Enhanced Physical Protection: The **armored jacket** adds a layer of durability, making the patch cord resistant to external damages like sharp objects, impacts, or rodent bites, which is crucial for fiber optic cables used in high-risk or rugged environments.

Superior Performance: The **SC UPC connectors** ensure excellent signal transmission with low insertion loss, making the patch cord ideal for high-speed, high-bandwidth applications requiring reliable and efficient connectivity.

Versatile Usage: This patch cord is suitable for **data centers, telecommunications, fiber-to-the-home (FTTH)** installations, and **industrial environments** where enhanced protection is necessary.

Long-Distance Efficiency: The **single-mode OS2 fiber** ensures high-quality transmission over long distances, making this patch cord ideal for backbone network applications or other long-range data communication needs.

Cost-Effective Solution: The durable construction and high-performance features of this patch cord make it a cost-effective solution that reduces maintenance costs and downtime in the long term.

Easy Installation: Despite the armored construction, the **3.00mm cable diameter** maintains flexibility for installation in various environments, including tight or high-traffic areas.

The **Armored Patch Cord SC UPC to SC UPC 3.00mm Simplex SM** is an excellent choice for anyone seeking a reliable and high-performance fiber optic connection with added protection for use in harsh environments. Its robust design ensures durability, minimal signal loss, and efficient data transmission, making it ideal for demanding applications in telecommunications, data centers, and other fiber optic installations.