Price of internal structure of pigtail connector



Overview

A common procurement mistake is to compare pigtail unit prices without counting the full cost of installation and rework.

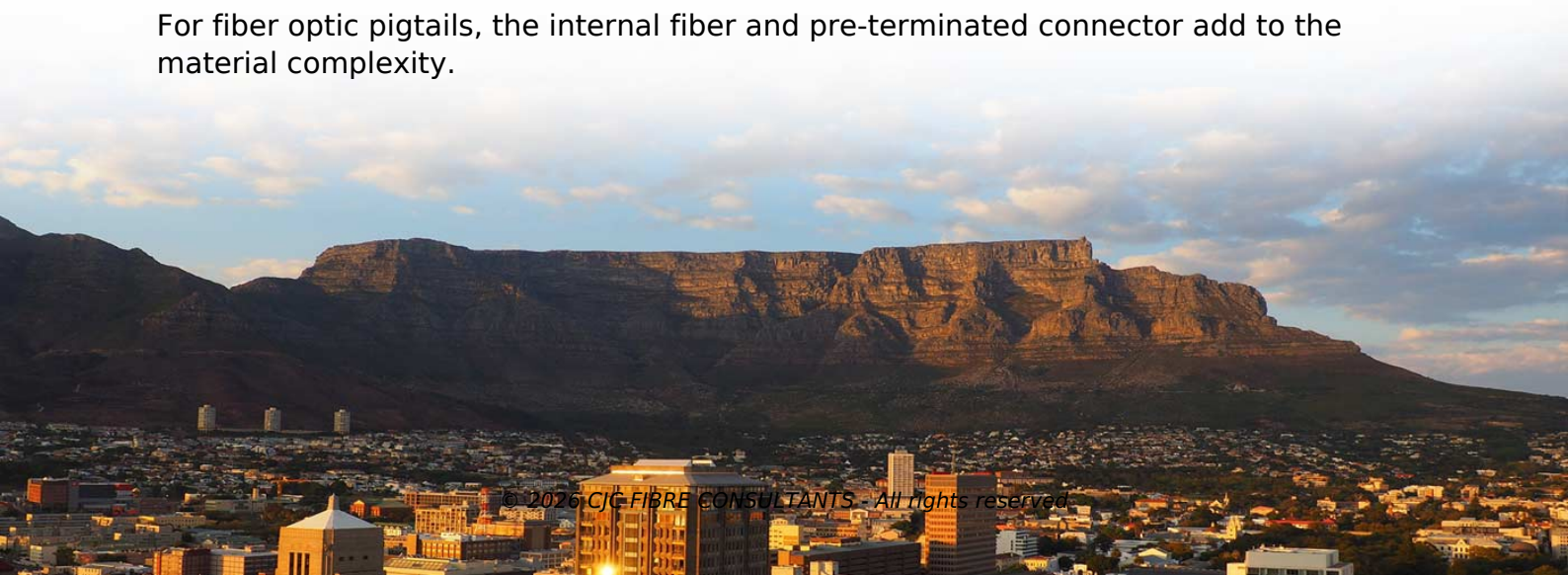
Key Takeaways

The internal structure of a pigtail connector primarily consists of high-grade copper conductors, insulation materials like PVC or thermoplastics, and protective housings, with costs varying based on material quality and application.

Internal Components and Materials

The core of a pigtail connector is typically high-grade copper, chosen for its excellent electrical conductivity and heat resistance, which ensures reliable signal or power transmission. Surrounding the conductor is insulation, often made from PVC, thermoplastic, or heat-shrink polyolefin, providing protection against moisture, abrasion, and temperature fluctuations. The housing is usually made from ABS or polycarbonate, offering mechanical protection, impact resistance, and environmental durability.

For fiber optic pigtails, the internal fiber and pre-terminated connector add to the material complexity.



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Cost Factors

The price of the internal structure depends on several factors: Conductor material: Copper is standard, but higher-purity or silver-plated copper increases cost. Insulation type: Polyolefin heat-shrink tubing or flame-retardant thermoplastics are more expensive than basic PVC. Housing material: Polycarbonate housings for rugged outdoor use cost more than ABS used in indoor applications.

Connector type and cores: Multi-core connectors (2, 4, 6 cores) or specialized optical pigtails are more expensive than single-core electrical connectors. Environmental rating: Waterproof or vibration-resistant designs add to the cost.

Market Pricing

While the internal structure alone is not typically sold separately, complete pigtail connectors provide a reference for cost: Standard electrical pigtail connectors can range from $0. 10 to $5 per unit depending on type, cores, and quality. High-performance or fiber optic pigtails may cost $5 to $20 or more per unit due to specialized materials and precision manufacturing.

Summary

The internal structure of a pigtail connector—copper conductors, insulation, and housing—forms the bulk of the material cost. While exact pricing for the internal components alone is not commonly available, the overall connector price reflects the quality and type of these materials. Selecting connectors with appropriate materials ensures reliable electrical performance, environmental resistance, and long-term durability.

Article Content

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