

Performance Comparison of ADSS 2-Core Optical Cable with Imported Brands



Article Overview

2-core ADSS cables offer comparable mechanical and optical performance to imported brands when designed with high-quality aramid yarn, FRP reinforcement, and proper sheath materials, but local variations in raw materials and manufacturing processes can affect long-term reliability.

Mechanical Performance

High-quality 2-core ADSS cables rely on aramid yarn as the primary tensile element and FRP (Fiberglass Reinforced Plastic) rods for structural stability. This ensures the cable can support its own weight over long spans and withstand additional loads from wind, ice, and snow, similar to imported brands. Local 2-core ADSS cables with adequate aramid content and proper sheath design can achieve tensile strength and sag-tension characteristics comparable to international products, provided that a minimum 15% safety margin is maintained for span lengths.

Optical Performance

Both local and imported 2-core ADSS cables typically use single-mode fibers (G.652D or G.657A1/A2), offering low attenuation and stable signal transmission over long distances. Proper loose-tube design with gel or dry-block water protection ensures minimal optical loss and reliable performance in high-humidity or wet conditions. Imported brands may offer slightly tighter manufacturing tolerances, but high-quality local cables can match optical performance if production standards are strictly controlled.

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SINGLE MODE OPTICAL FIBER CABLE SPECIFICATION(ADSS)

1. General 1.1 The specification covers the construction and properties of optical fiber cable. 1.2 The cable shall be used for aerial or

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Ficha_AR-1NSU-ADSS-PE-50M-xxF-G652D

SPECIFICATION 1. General This specification covers the design requirements and performance standard for the supply of optical

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OPTICAL FIBER CABLE SPECIFICATION (ADSS-Span= 100m)

1.2 The cable shall be used for aerial installation. (Span $\leq$ 60m, Initial sag: 0.5%, flat ground) 1.3 The cable generally meets any latest

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However, the quality of ADSS optical cables on the market varies greatly. Today, let's have a detailed discussion

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Technical Specifications

Technical Specifications For ADSS (All Dielectric Self Supporting) Optical Fiber Cable (ADSS-24 Cores,single sheath,ITU-T G.652.D

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