



General Description

PDR's SMPTE Cable Assemblies are engineered for HDTV broadcast infrastructure and other high-performance video applications. They provide a ruggedized, dirt-protected fiber optic connection system featuring all-metal connector housings, heavy-duty cable retention, and silicon gaskets for reliable dust and dirt protection. These assemblies are available in both single-mode and multimode fiber types, with full customization support for repairs, replacements, and system-specific designs.

Features

- Rugged all-metal connector housing for durability.
- Heavy-duty cable retention for secure long-term performance.
- Silicon gasket protection against dust and dirt.
- Available with a wide range of connector types: SC, LC, FC, ST, MU, MTRJ, SMA, E2000, etc.
- Supports **Single-mode (9/125 μm)** and **Multimode (50/125 μm , 62.5/125 μm , OM3)** fiber.
- Multiple jacket types (simplex, duplex, mini-zipcord, armored, FTTH).
- Customizable lengths from **0.5 m to 999 m**.
- Full support for repair, replacement, and custom configuration.

Main Characteristics

Parameter	Specification
Fiber Type	Single-mode (9/125 μm), Multimode (50/125 μm , 62.5/125 μm , OM3)
Connector Options	SC, LC, FC, ST, MU, MTRJ (w/wo pin), SMA, E2000
Insertion Loss	≤ 0.30 dB (typical), ≤ 0.50 dB (maximum)
Return Loss	≥ 50 dB UPC, ≥ 60 dB APC
Operating Temperature	-40 °C to $+75$ °C

Storage Temperature	-55 °C to +85 °C
Tensile Strength	100 N – 150 N (depending on cable type)
Durability (Matings)	≥ 500 cycles
Cable Jacket Options	Simplex, duplex, mini-zipcord, FTTH, armored
Length Options	0.5 m to 999 m (custom lengths available)
Dust/Dirt Protection	Silicon gasket integrated
Applications	HDTV broadcast, studio, outdoor field deployment, OB vans, system integration

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