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Fiber Optic Adapter and Coupler

Description

Fiber optic adapters (also known as couplers) are passive components that align and connect two fiber optic connectors, enabling precise and low-loss optical transmission. They are widely used in patch panels, termination boxes, and fiber management systems in FTTH, data centers, and telecom networks

Structural Features

- Adapter Types
 - SC, LC, FC, ST, MTP/MPO, MU, E2000
 - Simplex, Duplex, Quad, and Hybrid versions (e.g., SC-LC, LC-FC)
- Polishing Compatibility
 - UPC (Ultra Physical Contact)
 - APC (Angled Physical Contact)
- Material
 - Sleeve: Zirconia ceramic (for high precision), or phosphor bronze (optional for MM)
 - Housing: Plastic or metal, with optional flange
 - Color Coding:
 - Blue (SM UPC), Green (SM APC), Beige (MM), Aqua (OM3/OM4)
- Mounting Options
 - Snap-in, screw mount, or panel mount
 - Dust caps included for protection
- Durability
 - ≥1000 mating cycles
 - Operating temperature: -40°C to +85°C



Applications

- Fiber optic patch panels and ODFs
- FTTH and FTTx fiber termination boxes
- Data center cable management
- Optical distribution cabinets
- Optical test equipment and lab setups
- CATV and telecom network nodes



Advantages

- Low insertion loss and high return loss
- Supports all major connector types and polish styles
- Compact, lightweight, and easy to install
- Multiple configurations: simplex, duplex, quad, hybrid
- Durable materials for long service life
- Interchangeable and reusable
- Compatible with international standards (TIA/EIA, IEC, RoHS)

Specifications

Specification	Details
Type	Simplex / Duplex, Single-mode / Multi-mode
Fiber Type	Single-mode (SM), Multi-mode (MM, OM1/OM2/OM3/OM4)
Connector Compatibility	SC, LC, FC, ST, MU, E2000, MTRJ
Insertion Loss	≤0.3 dB (Single-mode), ≤0.5 dB (Multi-mode)
Return Loss	APC ≥ 60 dB, UPC ≥ 50 dB, PC ≥ 40 dB
Durability	≥1000 mating cycles
Housing Material	High-quality ceramic ferrule, PC/ABS body
Operating Temperature	-40°C to +85°C
Color Code	Blue (SM UPC), Green (SM APC), Beige (MM OM1/OM2), Aqua (MM
Compliance	IEC 61754, TIA/EIA-604, RoHS

Ordering Information

Model No.	Description	Remark
Fiber Optic Adapter and Coupler	<input type="checkbox"/> Fiber Type <input type="checkbox"/> Model Type <input type="checkbox"/> Quantity	Contact our sales or technical dept for more information: Sales: sales@honelinks.com Technical: tony@honelinks.com