Avago Series POF Patch Cord HFBR4501-4511

Variants

5M 3M

Details

Avago Series POF Patch Cord (HFBR4501 – HFBR4511)

The HFBR4501–4511 is a Plastic Optical Fiber (POF) patch cord designed for short-distance, noise-free signal transmission in industrial and control environments. It offers excellent flexibility, high EMI resistance, and simple plug-and-play connectivity.

Key Features

Feature	Description
Fiber Type	Plastic Optical Fiber (POF)
Connector Type	HFBR-4501 (Tx) to HFBR-4511 (Rx)
Fiber Core Diameter	1.0 mm (PMMA)
Cable Diameter	2.2 mm (Typical)
Transmission Distance	Up to 50 meters (typical application)
Operating Wavelength	650 nm
Attenuation	~0.2 dB/m (Typical)
Temperature Range	-40°C to +85°C
Cable Type	Simplex POF Cable

Advantages

Benefit	Details
EMI Immunity	Completely immune to electromagnetic interference
Flexible & Safe	Plastic fiber is flexible and safer than glass fiber
Easy Installation	No splicing required – plug and play connection
Durability	Resistant to vibration, bending, and harsh environments

Applications

Application	Usage
Industrial Automation	PLC, CNC machines, control systems
Power & Hydropower	SCADA, RTU, turbine control panels
Medical Equipment	MRI, diagnostic systems
Data Communication	Short-distance signal transmission, board-to-board links

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