

POF Patchcord-HFBR(standard)

Applications:

- Industrial data links for factory automation and plant control
- Intra-system links, Board-to-board, Rack-to-rack
- Telecommunications switching systems
- Computer-to-peripheral data links, PC bus extension
- Proprietary LANs
- Digitized Video
- Medical instruments
- Reduction of lightning and voltage transient susceptibility
- High voltage isolation



HFBR-4531

Features:

- Compatible with Agilent Versatile Link Family of Connectors and Fiber Optic Components
- 1mm Diameter Plastic Optical Fiber (POF) in Two Grades: Low Cost Standard POF with 0.22dB/m Typical Attenuation, or High Performance Extra Low Loss POF with 0.19dB/m Typical Attenuation



HFBR-4531-D

Description:

Four connector styles are available for termination of plastic optical fiber: simplex, simplex latching, duplex and duplex latching. All connectors provide a snap-in action when mated to versatile link components. Simplex connectors are color coded to facilitate identification of transmitter and receiver connections. Duplex connectors are keyed so that proper orientation is ensured during insertion. If the POF cable / connector will be used at extreme operating temperatures or experience frequent and wide temperature cycling effects, the cable/connector attachment can be strengthened with an RTV adhesive (see plastic connecting instructions for more detail).

Specifications:

Parameter	Value
Insertion Loss	$\leq 1.0\text{dB}$
Interchangeability	$\leq 0.5\text{dB}$
Typical Attenuation	0.20dB/m (Wavelength: 650nm)
Refractive Index	Step Index
Minimum Bend Radius	25mm
Angle of incidence	60°
Tensile Strength	$\leq 0.5\text{dB}$ (0~80N)
Vibration	$\leq 0.5\text{dB}$ 5~50Hz, 1.5mm Amplitude)
Numeral Aperture	0.50
Jacket Color	Black
Fiber Diameter	1mm
Outside Diameter	2.2mm
Fiber Material	PMMA
Operating Temperature	-40°C~+85°C
Storage Temperature	-40°C~+85°C

Drawing:

