



Industrial Control Plastic Optical Fiber Cable

Overview

Industrial Fiber Optics manufactures standard product lines of fiber optic patch cords with plastic optical fiber (POF) and Versatile Link (Versalink) terminations. These products provide ready-made solutions for quick installations in commercial or industrial networking/communications applications using Avago VersaLink fiber optic transmitters and receivers. Our premier quality patch cords are available in simplex and duplex cable with latching and non-latching connectors, heavy duty or UL-rated cable construction, and in many standard lengths.

This patch cord line utilizes high quality Eska Premier GHCP4001 fiber cable featuring a rugged polyethylene jacket. Patch cord terminations are authentic Avago Versalink connectors.

We offers a complete portfolio of fiber optic components for networking including: Ethernet, Fiber Channel, Infiniband, OBSAI/CPRI, Sonet/ATM, and proprietary communication links.

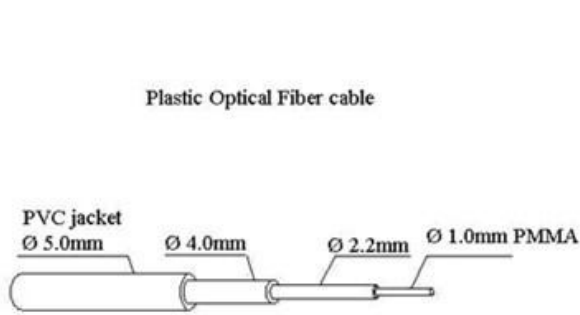
Specification

1. Simplex, duplex, latching and non-latching connector options
2. UL-rated fiber cable and connections
3. Crimped and epoxied connector terminations for maximum retention strength.
4. 1 μ m polish terminations ensure high optical coupling efficiency
5. Assembly processes exceed Avago recommended procedures
6. Standard fiber lengths for low-cost manufacturing and quick delivery

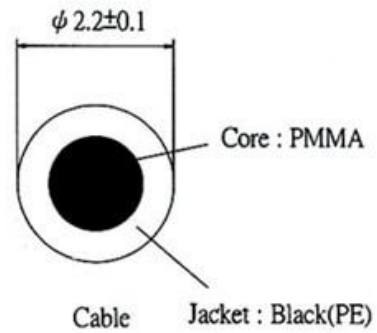
Application

1. Motor controller triggering
2. Data communications and local area network
3. Automotive communications and control networks
4. Noise immune communication in audio/video equipment
5. Error free signalling for industrial and manufacturing equipment
6. Power system

Core structure



Picture 1: Side view



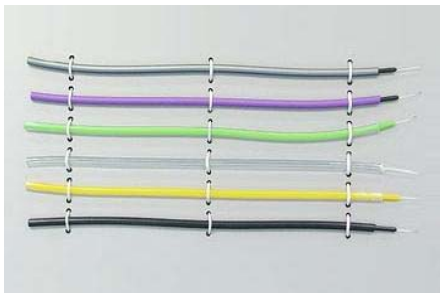
Picture 2: Front view



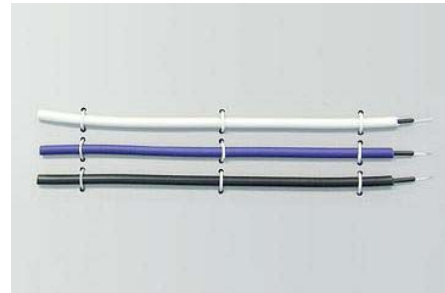
Picture 3: Optic fiber



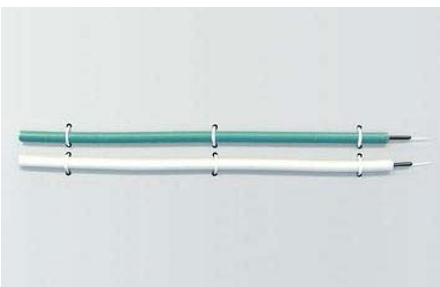
Picture 4: Optic fiber



Picture 5: \varnothing 2.2mm optic fiber cable



Picture 6: \varnothing 4.0mm optic fiber cable



Picture 7: \varnothing 5.0mm optic fiber cable



Picture 8: \varnothing 6.0mm optic fiber cable

Material: PMMA

Item	Unit	Data
Core Diameter	mm	Φ1.0mm, Φ0.5mm, Φ0.75mm
Outside Diameter	mm	Φ2.2~5.0mm±0.1mm
Fiber Material	--	PMMA
Wavelength	nm	650nm or 530nm
Typical Attenuation	dB/km	<190
Refractive Index	--	Step Index
Bend Radius	--	5 x core Diameter
Numerical Aperture	--	0.50
Angle of incidence	--	60°
Interchangeability	dB	<0.5
Tensile Strength	N	≧ 1.0dB(0~80N)
Vibration		≧ 1.0dB(5~50Hz)
Working Temperature	°C	-40°C- +70°C
Storage Temperature	°C	-40°C- +70°C
Quality standard	--	SONET. OC-48m, G.653, YD/T 1447-2006, ROHS

Matching products

Item no.	Connector 1	Connector 2	Core diameter	Core style	Cable color	Length
HFBR 4501Z-4511Z	HFBR-4501Z	HFBR-4511Z	POF 980/1000	simplex	black	1000 mm
HFBR 4503Z-4513Z	HFBR-4503Z	HFBR-4513Z	POF 980/1000	simplex	black	1000 mm
HFBR 4506Z-4516Z	HFBR-4506Z	HFBR-4516Z	POF 980/1000	duplex	black	1000 mm
HFBR 4531Z-4533Z	HFBR-4531Z	HFBR-4533Z	POF 980/1000	simplex	black	1000 mm
HFBR 4532Z-4532Z	HFBR-4532Z	HFBR-4531Z	POF 980/1000	simplex	black	1000 mm

HFBR 4501Z-4511Z



Structure



Overview

1. Original importer Avago connectors, more firm and integrated anti-drag
2. POF optic cable to guarantee high quality audio signal transmission
3. Fine polishing wearproof covers, PE&PVC sheath and colored cores
4. Immunity from electromagnetic interferences

Specification

End style: HFBR 4501Z-4511Z

Core diameter: $\Phi 1.0$ 、 $\Phi 0.50$ 、 $\Phi 0.75$

Core material: PMMA

Outside diameter: $\Phi 2.2$; $\Phi 2.2\text{mm}-10.0\text{mm}$

Cladding material: CPE、PE、PVC

Cladding color: Black or other color

Typical Attenuation: $<190\text{dB/km}$

Working Temperature: $-55^{\circ}\text{C}-+70^{\circ}\text{C}$

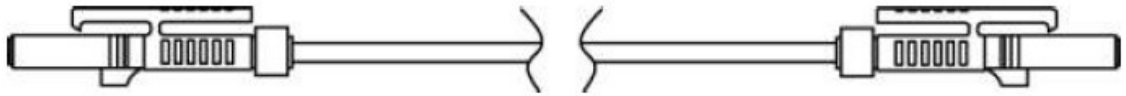
Length: 1000mm, (special length: 0-100m)

Quality Standard: ROHS、CE

HFBR 4503Z-4513Z



Structure



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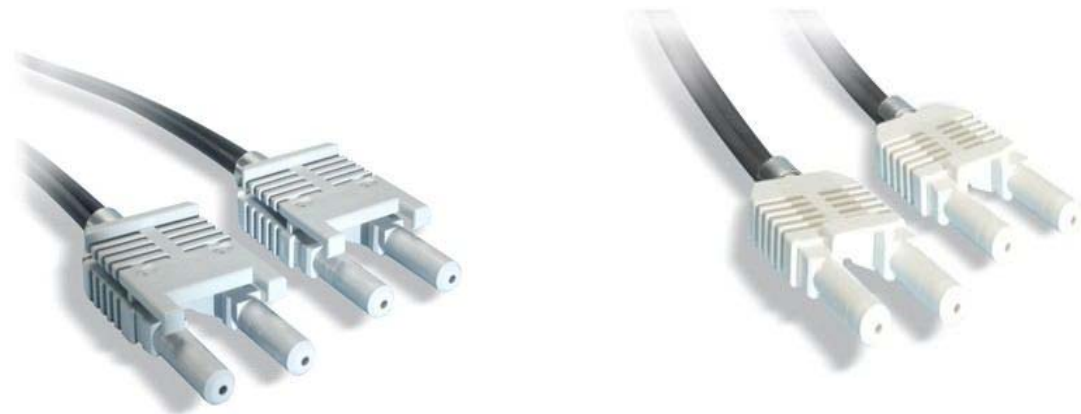
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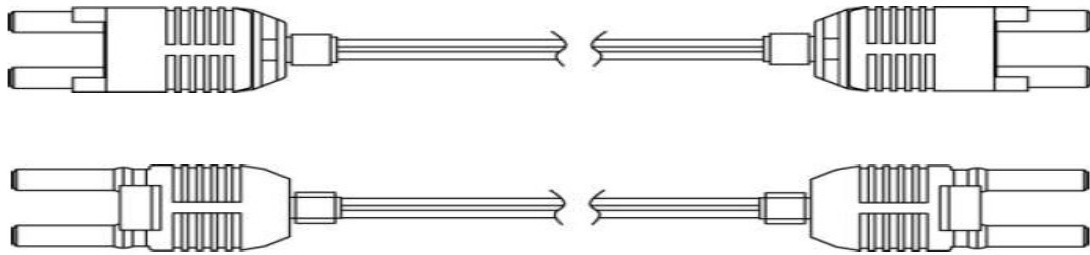
Length: 1000mm, (special length: 0-100m)

Quality Standard: ROHS、CE

HFBR 4506Z-4516Z



Structure



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Specification

End style: HFBR 4506Z-4516Z

Core diameter: $\Phi 1.0$ 、 $\Phi 0.50$ 、 $\Phi 0.75$

Core material: PMMA

Outside diameter: $\Phi 2.2$; $\Phi 2.2\text{mm}-10.0\text{mm}$

Cladding material: CPE、PE、PVC

Cladding color: Black or other color

Typical Attenuation: $<190\text{dB/km}$

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