

# Plastic Optical Fibers for IEEE1394

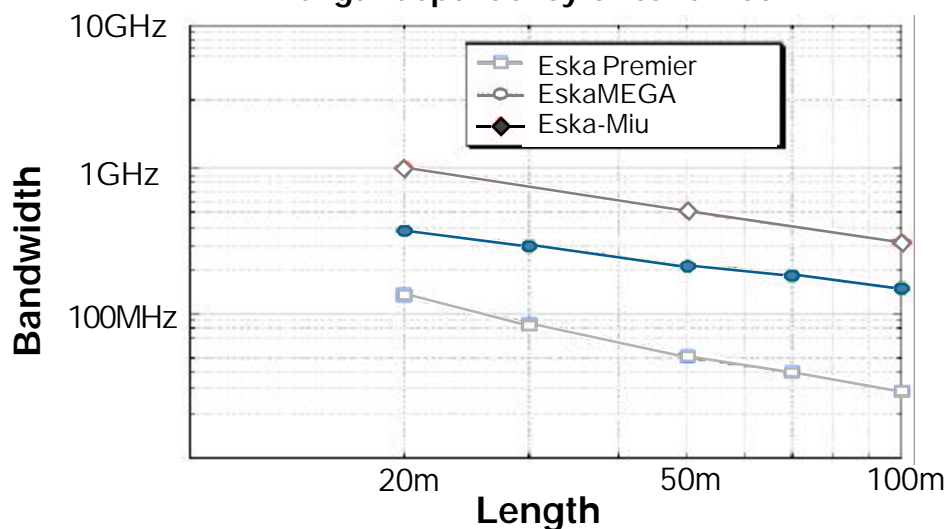
ESKAMEGA is P1394b compliant POF for S100/S200 distance extension up to 50 meters. ESKAMEGA is commercially available with mating connectors such as SMI and PN. In addition to ESKAMEGA, Mitsubishi Rayon provides Eska Premier, a highly reliable POF for in-car network use and Eska-Miu, a newly developed POF capable of 400Mbps (500Mbaud) data transmission over 50 meters.



## User Friendly Advantages of Plastic Optical Fiber

- Free from EMI
- Capable of High Data Rate
- Light Weight (vs. Metallic Wire)
- Easy to handle and terminate
- Flexible, difficult to break
- Low cost of connector due to large coupling tolerance

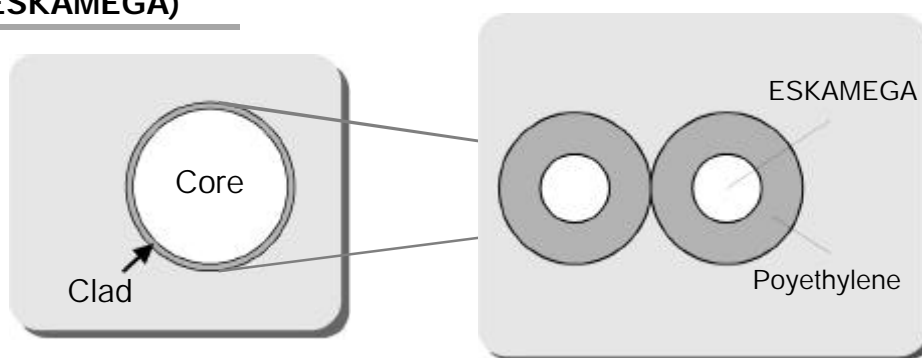
Mitsubishi Rayon POF "ESKA" series  
Length dependency of bandwidth



## ESKA Products information/data summary

	Eska Premier	EskaMEGA	Eska Miu
Product Code	GH4002	MH4002	(under development)
Core material	PMMA	PMMA	PMMA
Cladding material	Fluorinated Plastic	Fluorinated Plastic	Fluorinated Plastic
Refractive Index Profile	SI	SI	Multi Step Index
NA	0.5	0.3	-
Typical core diameter	0.98 mm	0.98 mm	0.70 mm
Typical fiber diameter	1.00 mm	1.00 mm	0.75 mm
Typical cable diameter	2.2 mm	2.2 mm	2.2 mm
Cable structure	Duplex	Duplex	Duplex
Typical attenuation	0.16 dB/m	0.16 dB/m	0.16 dB/m
Typical bandwidth (50m)	100 MHz	200 MHz	350 MHz
	S100/20m applicable, suitable for automotive application	p1394b S100/S200 compliant, ATM Forum PHY-POF155-0079 compliant	S400/50m applicable
Application	Automotive network	PC peripherals, Consumer electronics	Home-network back- bone

### Structure (ESKAMEGA)



Type : MH-4002

### Connected Cable

PN Connector



SMI Connector



Eska Premier	RFA4212G-***	RFA4412G-***
ESKAMEGA	RFA4212M-***	RFA4412M-***

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