

# **Specifications for Plastic Optical Fiber**

## **Multi-core POF**

**Flame-retardant Grade < UL VW-1, 80°C >**

## **HMCKU-1000PW**

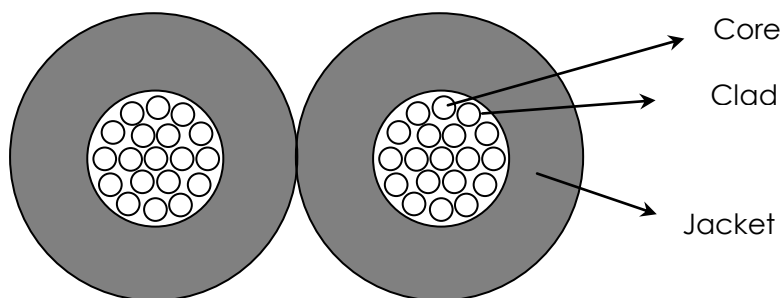
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## 1, STRUCTURE

ITEM	UNIT	Specifications
Core Material		PMMA
Clad Material		Fluorinated Polymer
Fiber Diameter	μm	1000 ± 60
Core number		19
NA		0.5
Jacket Material		Halogen-free Flame-retardant PE
Jacket Diameter	μm	2200 ± 100 / 4450 ± 200
Jacket Color		Black
Marking		[ RU AWM STYLE 5292 VW-1 80°C E116331 ASAHIKASEI E-MATERIALS CORPORATION ]
Marking color		white



## 2, PROPERTIES

ITEM	UNIT	Specifications	
Application Temperature Range	°C	-55 ~ 80	
Attenuation	dB/m	≤ 0.18	*1
Tensile Strength at Break Point	N	≥ 180	*2
Elongation at Break Point	%	≥ 90	*2
Minimum Bending Radius	mm	6	*3

## 3, RoHS certification

The product does not contain RoHS 2 hazardous substances, Cadmium, Lead, Mercury, ChromeⅥ, PBB, PBDE, HBCDD, DEHP, DBP and BBP intentionally.

### Sample conditions

Temperature: T = 23°C  
Humidity: RH = 50%  
Storage time: t = 200h

\*1 : Monochromatic light at 650nm, LNA = 0.15, 20-2m Cut-back Method

\*2 : Interval between grippers = 100 mm, Tensile Speed = 100mm/min

\*3 : L = 2m, 90 degree bending at the middle of fiber

Light Source : LED (Peak Wavelength = 657nm), Transmission Rate ≥ 90%