

Specifications for Plastic Optical Fiber

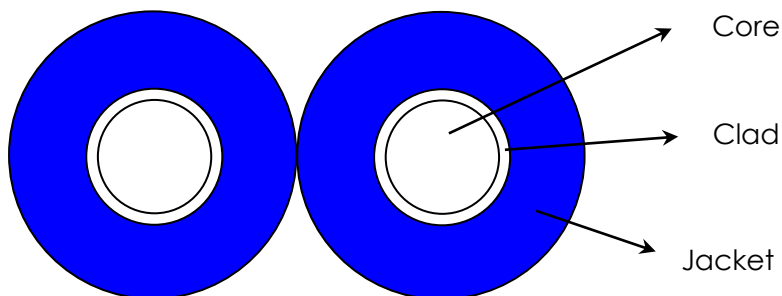
Flame-retardant Grade < UL VW-1, 80°C >
SCV-1000W(B)

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Issued by : Asahi Kasei Corporation
Plastic Optical Fiber
Marketing & Development Gr

1, STRUCTURE

ITEM	UNIT	Specifications
Core Material		PMMA
Clad Material		Fluorinated Polymer
Core reflective index		1.49
Reflective index Profile		Step index
Core Diameter	μm	970 ± 60
Fiber Diameter	μm	1000 ± 60
NA		0.6
Jacket Material		PVC
Jacket Diameter	μm	2200 ± 100 / 4350 ± 200
Jacket Color		Blue
Marking (One Channel)		[RU AWM STYLE 5291 VW-1 80°C E116331 ASAHIKASEI E-MATERIALS CORPORATION]
Marking Color		White
Approx. weight	g/m	10.0



2, PROPERTIES

ITEM	UNIT	Specifications	
Storage Temperature Range	°C	-55 ~ 80	
Application Temperature Range	°C	-55 ~ 80	
Attenuation (23 °C 50%)	dB/km	≤ 160	*1
Attenuation (Operating Temperature)	dB/km	≤ 190	*1
Tensile Strength at Break Point	N	≥ 180	*2
Elongation at Break Point	%	≥ 90	*2
Minimum Bending Radius	mm	20	*3

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%

3, RoHS certification

The product does not contain RoHS 2 hazardous substances, Cadmium, Lead, Mercury, Chromium (VI), PBB, PBDE, DIBP, DEHP, DBP and BBP intentionally.