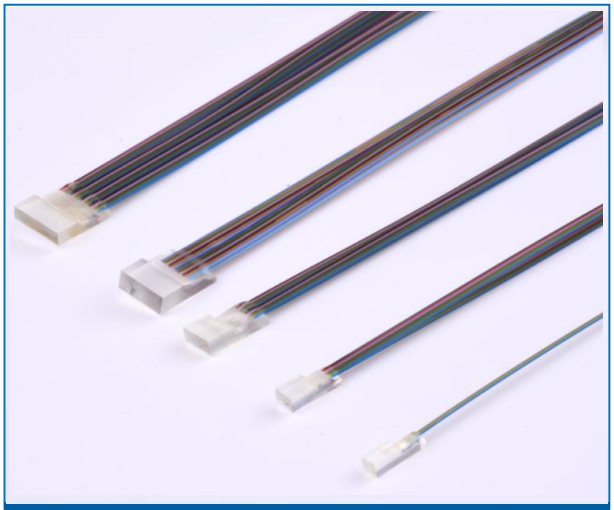
Fiber array

Description

HYC self-produced fiber array provides a variety of options, such as the channel number of fiber array, core spacing and grinding angle. It is widely used in planar optical waveguide (PLC), arrayed waveguide grating (AWG), Active array optical devices in different fields such as MEMS and so on ; the main material of HYC's high-quality fiber arrays is quartz glass with a small expansion coefficient and a unique production process, so that its products maintain high-quality working conditions in harsh environments.



Fiber array

Features

- Low expansion coefficient quartz glass V-groove
- Low insertion loss, high return loss
- Color ribbon fiber channel
- Multiple channels are available
- Compliant with RoHS, TelcordiaGR-1221 and GR-1209 standards

Application

- PLC
- AWG
- OXC
- MEMS

Specification

Parameter	Unit	Specification
Number of channels	CH	2、4、8、16、32、48、64 or customer specify
Fiber spacing	um	2CH 、4CH、8CH：250±0.5，8CH、16CH、32CH、48CH、64CH：127±0.5
Insertion loss	dB	≤0.15
Return loss	dB	≥55
Grinding angle	°	0、8、42.5、45
Angle control		±0.3
Operating temperature	℃	-40~+85
Fiber type		Corning G657A2 or customer specify

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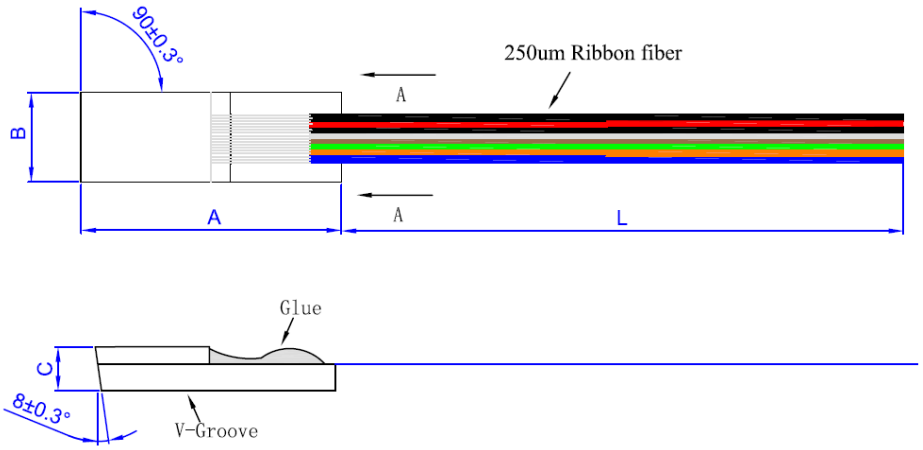

Channel	Fiber type	A(mm)	B(mm)	C(mm)	L(m)	Fiber color	Note
2CH(250um)	2 single core bare fibers	10±0.2	2.5±0.05	2.5±0.05	1.5 or 2.5	clear	customer specify
4CH(250um)	1 four core fiber	10±0.2	2.5±0.05	2.5±0.05	1.5 or 2.5	Blue, orange, green, brown	
8CH(127um)	2 four cores with fiber	10±0.2	2.5±0.05	2.5±0.05	1.5 or 2.5	Blue, orange, green, brown x2	
8CH(250um)	1 eight-core fiber	10±0.2	3.0±0.05	2.5±0.05	1.5 or 2.5	Blue, orange, green, brown, gray, white, red, black	
16CH(127um)	2 eight cores with fiber	12±0.2	3.5±0.05	2.5±0.05	1.5 or 2.5	Blue, orange, green, brown, gray, white, red, black x2	
32CH(127um)	4 eight cores with fiber	12±0.2	5.7±0.05	2.5±0.05	1.5 or 2.5	Blue, orange, green, brown, gray, white, red, black x4	
64CH(127um)	8 eight cores with fiber	12±0.2	9.8±0.1	2.5±0.05	1.5 or 2.5	Blue, orange, green, brown, gray, white, red, black x8	