PRODUCT INTRODUCTION

Power Transmission Fibre Patchcord

Using special cladding with large core diameter energy optical fibre, protected by high-quality stainless steel hoses. According to customer needs, match the core and cladding diameters, design and achieve high efficiency coupling and highpower stable transmission through precision polishing and efficient cleaning of the end face.

Features

- Fibre core - cladding matching、High laser damage threshold
- Stable clamping and high concentricity
- Excellent stainless steel hose protection
- Transmission efficiency ＞90% @ 1064nm, stable performance
- Organic-/inorganic-/non-adhesive process-are available
- D80/SMA905 connectors are available-, water cooling is available

Applications

- Output of pumped laser
- Silicon wafer/ceramic/glass cutting
- Precision drilling of substrates/thin films
- Laser marking
- Laser precision carving
- Spectral measurement/sensing

Parameters

Function	Reference Data	Notes
Fibre size	Single mode/Multimode、40/125~910/1000	Fibre optic specifications can be specified
NA	0.22±0.02 (Typical value)	Customizable
Fibre characteristics	SI/GI, high/low OH, acrylic resin coating/ETFE tight sleeve layer	Customizable
Connector type	D80、SMA905、FC、SC、LC、ST	Customizable
Length	0.1~25m	Customizable
Working wavelength	300~1200nm	Customizable
Power	500W (Taking SI600/750 fibre D80 jumper as an example)	Customizable
Transmission efficiency	>90%@1064nm (10m)	Customizable
Power stability	±1.5%@1064nm	Customizable
Power consistency	≥95%@1064nm	-
End face cleanliness	<2μm Dirty quantity≤10 (Taking SI600/750 fibre D80 jumper as an example)	-
Fibre damage threshold	36.2J/cm^2@1064nm (10.4ns,1Hz)	-