

Bend Radius Jumper



Multimode - Single Mode OPJULCPCSP50D0010RCX

When a fiber cable is bent excessively, the optical signal within the cable may refract and escape through the fiber cladding. Bending can also damage the fiber by causing micro cracks, especially during installation, when pulling forces are to be expected. As a result, there comes a loss of signal strength that may have an effect on data transmission.

The Optronics Bend Radius Jumper offers an ultra-flexible cable, allowing major bend radius before damaging the fiber (The minimum radius of curvature for standard jumpers specifies 10 times the cable's outside diameter). The Bend Radius Jumper is capable to double its bend radius over its own outside diameter.

The Optronics Bend Radius Jumper is ideal to FTTx applications; its fiber cable assembly is used when a smaller bend radius is required due to space limitations. It is also abrasive resistant, meeting the G625D standards.

SPECIFICATIONS

Norms and Standards	Telcordia GR-326, IEEE 802.3u/802.3x/802.3z/802.3j, IEC 60794, TIA/EIA-568.B.3			
Fiber Jacket	Color	Multimode: Orange		Single mode: yellow
	Diameter	3mm ± 0.05mm	2mm ± 0.05mm	1.6mm ± 0.05mm
	Thickness	0.80mm ± 0.80mm	0.60mm ± 0.50mm	0.6mm ± 0.50mm
	Temperature	-20°C up to 85°C		
Fiber optic	Core diameter	Fiber: 9/125µm, 50/125µm, 62.5/125µm		Value: ± 0.70mm
	Cladding diameter	125.0 ± 2.0µm		
	Core concentricity	≤1.5µm		
	Cladding concentricity	≤1.0%		
	Wavelength	Multimode: 850 nm - 1300 nm	Single mode: 1310 nm -1150 nm	
	Maximum value	dB/Km	≤0.03	≤0.02
	Recommended Light source	Multimode: LED o VCSEL		Single mode: Laser

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Features

- IEEE 802.3u, IEC 60794, TIA/EIA-568.B.3 compliant. Telcordia GR-326 and IEEE 802.3u/802.3x/802.3z/802.3j standards tested.
- 50/125µm Multi Mode, 9/125µm Single Mode.
- 1.6mm and 2mm Simplex / Duplex.
- Fibers offers low insertion loss once joined to connector. Easy installation, designed construction to support tough usage for high performance.
- Different type of terminations SC to ST, LC to FC, etc.
- Up to 32,81ft length (larger length custom cable available upon request).
- Temperature range -20°C up to +85°C.

CONNECTORS	FC	ST	SC	LC	MU	MTRJ
Fastening	Threaded coupling	Bayonet fitting	Push-pull	Plug-in	Push-pull	Plug-in
Body	Metallic	Metallic	Plastic	Plastic	Plastic	Plastic
Ferrule	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Plastic
Ferrule diameter	2.5mm	2.5mm	2.5mm	1.5mm	1.5mm	Plastic
Polish	PC/UPC/APC	PC/UPC	PC/UPC/APC	PC/UPC	PC/UPC	PC/PC
Ferrule tolerance	125.0± 1µm SM 126.0±1µm MM	125.0± 1µm SM 126.0±1µm MM	125.0± 1µm SM 126.0±1µm MM	125.0± 1µm SM 126.0±1µm MM	125.0± 1µm SM 126.0±1µm MM	
Insertion loss	≤0.20 dB PC ≤0.30 dB UPC ≤0.45 dB APC	≤0.20 dB PC ≤0.30 dB UPC	≤0.20 dB PC ≤0.30 dB UPC ≤0.45 dB APC	≤0.20 dB PC ≤0.30 dB UPC	≤0.20 dB PC	≤0.20 dB PC
Return loss	≤0.45 dB UPC ≤0.50 dB APC	≤0.45 dB UPC	≤0.45 dB UPC ≤0.50 dB APC	≤0.45 dB UPC	≤0.45 dB UPC	≤0.45 dB UPC
Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Durability	± 1db 500 Insertions	± 1db 500 Insertions	± 1db 500 Insertions	± 1db 500 Insertions	± 1db 500 Insertions	± 1db 500 Insertions
Boot color	Black PC Aqua 10G Blue UPC Green APC	Black PC Aqua 10G Yellow UPC	Beige PC Aqua 10G Blue UPC Green APC	White PC Aqua 10G White UPC	Black PC Blue UPC	Black PC