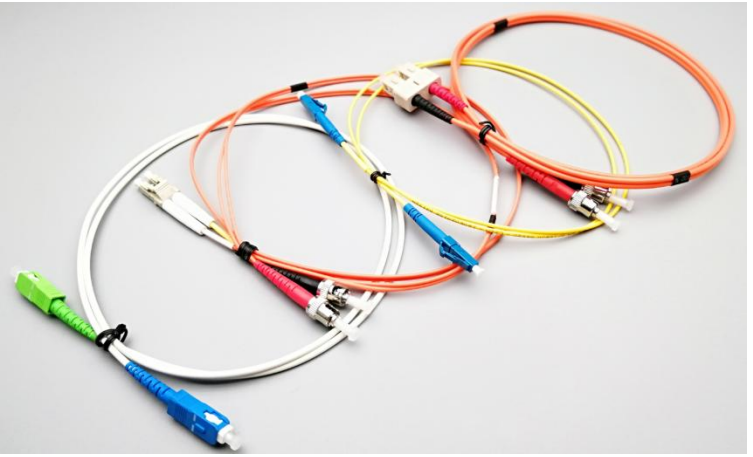
EVOLUX

Optical Fiber Patch Cord

Description

The Fast Connector also is called "Field Assembly Connector" or "Field terminated fiber connector" or "quickly assembly Fiber connector". It is designed for simple and fast field termination of single fibers, without polishing or epoxy. The unique design is a pre-polished ferrule and a mechanical splice inside the connector body.



Product Features

- High quality zirconium ferrules.
- Good repeatability and interchange.
- Flame-retardant, rugged and durable jacket.
- Printing helps clarify and recognize different cables.
- Factory terminated and tested for insertion loss, return loss and end face.
- Standard connectors LC, SC, ST, FC, LSH, MTRJ, MU are available.
- Single mode (OS2) and multimode (OM1, OM2, OM3, OM4, OM5) are available.

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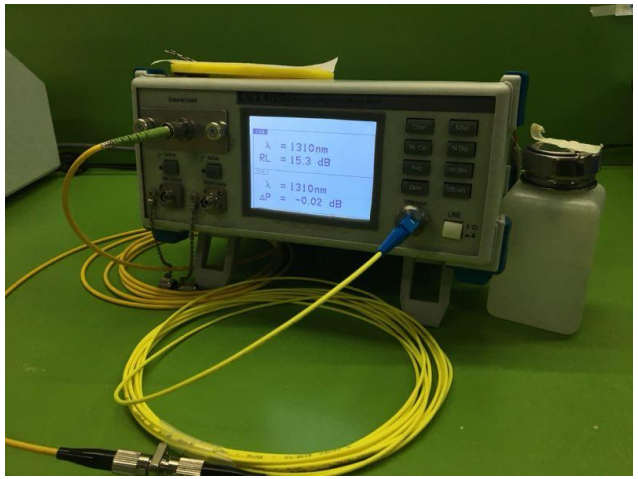

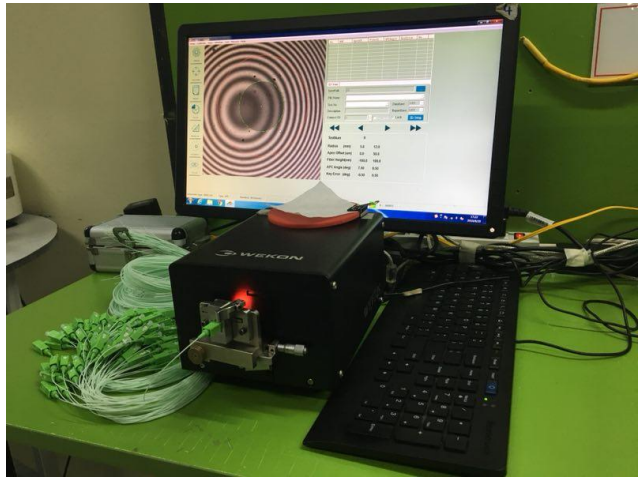

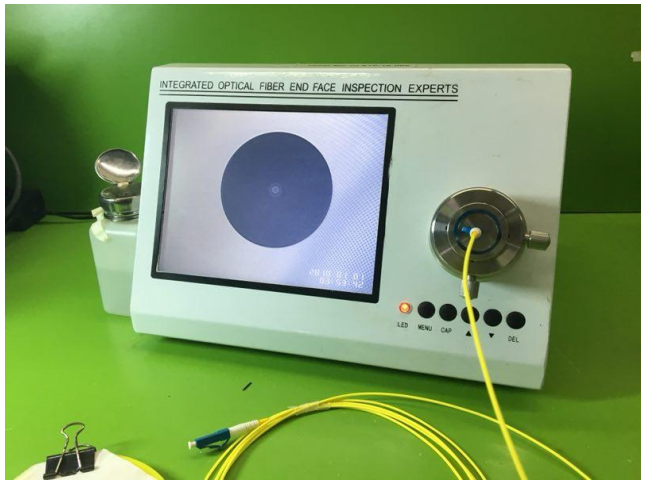

Application

- Data Center
- Enterprise
- Fiber to the X (FTTX)
- Local Area Network and Wide Area Network (LAN and WAN)
- Community Antenna Television Network (CATV Network)
- Telecommunications Network

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Specifications

Physical Parameters

Connector Types End A	LC/SC/ST/FC/LSH/MTRJ/MU
Connector Types End B	LC/SC/ST/FC/LSH/MTRJ/MU
Polish Type	SMF: UPC-UPC; UPC-APC; APC-UPC; APC-APC; MMF: UPC-UPC
Connector Ferrule	Zirconia Ceramic
Cable Outside Diameter	0.9mm/2.0mm/3.0mm
Interchangeability	≤0.2dB
Vibration	≤0.2dB
Minimum Bend Radius	30mm

Mechanical Characteristics

Fiber Type	OS2/OM5/OM4/OM3/OM2/OM1
Fiber Count	Simplex/Duplex
Cable Jacket	PVC(Riser/OFNR)/LSZH/Plenum(OFNP)
Jacket Color	OM1/OM2: Orange; OM3/OM4: Aqua; OM5: Lime Green; OS2: Yellow
Fiber Grade	SMF: G.652.D; MMF: G.651

Optical Characteristics

Connector Insertion Loss	SMF: LC/SC/ST/FC/MU/LSH≤0.3dB; MMF: LC/SC/ST/FC/MU≤0.3dB; LSH≤0.4dB
Connector Return Loss	SMF: UPC≥50dB; APC≥60dB; MMF: ≥20dB
Attenuation at 1310nm	0.36dB/km
Attenuation at 1550nm	0.22dB/km
Attenuation at 850nm	3.0dB/km
Attenuation at 1300nm	1.0dB/km

Environmental Characteristics

Operating Temperature	OS2/OM4/OM3/OM2/OM1: -40~75℃; OM5: -60~85℃
Storage Temperature	OS2/OM5/OM4/OM3/OM2/OM1: -45~85℃

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Transmission Distance Comparison

Data Rate	Interface Type	Fiber Mode	Wavelength	Maximum Distance
1G	1000BASE-LX	OM5	850nm	550m
		OM4	1300nm	550m
		OM3	1300nm	550m
		OM2	1300nm	550m
		OM1	1300nm	550m
		SMF	1310nm	10km
	1000BASE-SX	OM4	850nm	550m
		OM3	850nm	550m
		OM2	850nm	550m
		OM1	850nm	275m
10G	10GBASE-SR	OM4	850nm	400m
		OM3	850nm	300m
		OM2	850nm	82m
		OM1	850nm	33m
	10GBASE-LRM	OM5	850nm	220m
		OM3	1300nm	220m
		OM2	1300nm	220m
		OM1	1300nm	220m
	10GBASE-LR	SMF	1310nm	10km
	10GBASE-ER	SMF	1550nm	30-40km
	10GBASE-ZR	SMF	1550nm	80-100km

Data Rate	Interface Type	Fiber Mode	Wavelength	Maximum Distance
40G	40G-BIDI	OM5	850nm	200m
		OM4	850nm	150m
		OM3	850nm	100m
	40GBASE-SR4	OM5	850nm	150m
		OM4	850nm	150m
		OM3	850nm	100m
	40G-SWDM4	OM5	850nm	440m
		OM4	850nm	350m
		OM3	850nm	240m
	40GBASE-LR4	SMF	1310nm	10km
100G	100GBASE-SR4	OM5	850nm	100m
		OM4	850nm	100m
		OM3	850nm	70m
	100G-SWDM4	OM5	850nm	150m
		OM4	850nm	100m
		OM3	850nm	75m
	100GBASE-SR10	OM4	850nm	125m
		OM3	850nm	100m
	100GBASE-LR4	SMF	1310nm	10km
	100GBASE-ER4	SMF	1310nm	40km