a SANWA company

fiberon

TECHNOLOGIES

Product Catalog

Fiberon Technologies

287 Turnpike Road Westborough, MA 01581, USA

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Fiberon at a Glance

Since 1995 as Fiberon and Since 1998 as Fiberon Technologies, Fiberon has been designing, developing, and delivering leading edge fiber optic components. Founded by Sam Lee; a highly respected and well-known fiber optic design engineer with a long and distinguished career in the fiber optics industry, Fiberon started as an OEM supplier to many large Interconnect distributers in the US.

At Fiberon Technologies we have become experts in supplying and manufacturing top of the line fiber optics solutions whether that be for basic connectors and adapters to the more intricate advanced passive solutions.

Core Goals

- Knowing local customer needs and requirements
- Extensive sales/executive management and business development experience with telecommunications industry
- Proven records of success and accomplishments selling to world's largest service providers and telecom industry leaders
- Strong understanding of a broad range of fiber optic technologies
- Strong international sales presence

Vision

Our vision is to be a leading supplier of fiber optic solutions worldwide through innovative products and enhancement of customer productivity with systems and service solutions.

Fiberon, Extended Bandwidth and More

Fiberon is a full-service technology company to the highest quality craftsmanship and complete customer satisfaction. We have created a successful business model by focusing our efforts on being the “the company behind the company”. We team with our clients and partner companies throughout the world to improve business through technology. Fiberon meets your complex business requirements by providing industry compliant cabling solutions, on time delivery and support for network infrastructure, telephony, and communications cabling.

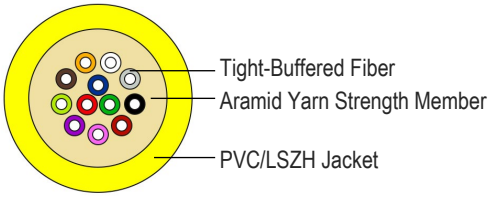
Fiberon follows all industry standards.

- Fiberon Technologies is ISO 9001:2015 certified at each of its facilities
- Fiberon Technologies is AS9100D Aerospace Quality Standard System certified on its line of active and passive fiber optic products
- Primary adapter manufacturing is certified to ISO 9001:2015
- Primary connector manufacturing is certified to ISO 9001:2015 and GR-326 certified to the Verizon TPR standard
- Primary assembly partners (CM’s) are certified to ISO 9001:2015 TL 9000, ISO 13485:2003 and ISO 14001:2014. They are also GR-326 certified to the verizon TPR standard
- Device manufacturing is certified to ISO 9001:2008 and ISO 14001:2004 PLC coupler/splitter production is also GR-1209/1221 certified to the verizon TPR standard

Tight-Buffered Distribution Cables

Features & Benefits

- 2-48 Fiber Count (Other fiber counts are available)
- 900µm Tight Buffered Construction
- LSZH, PVC, Plenum OFNP, Riser OFNR Jacket Options
- RoHS Compliant



Applications

FTTX Networks
Riser/Backbone/Data Center Cabling

Standards

ITU.T G.652.D, G.657.A, G.657.B, G.651.1
ANSI/TIA-568-C.3, ISO/IEC 11801
IEC 60793, IEC 60794
IEC 60332-1-2, IEC 60754-1,2 & IEC 61034-2

Environmental Characteristics

Installation	-10° to +50°C
Operation	-20° to +60°C
Transport and Storage	-20° to +60°C

Mechanical Specifications

Cable Bending Radius	**Min. Bend Radius (Dynamic)**	20D
	Min. Bend Radius (Static)	10D
Crush Resistance	**Long Term**	300
	Short Term	100

Fiber Characteristics

Cable Type	Singlemode (G.652.D)		OM1		OM2		OM3		OM4	
Wavelength (nm)	1310	1550	850	1300	850	1300	850	1300	850	1300
Attenuation (dB/km)	≤0.4	≤0.3	≤3.0	≤1.0	≤3.0	≤1.0	≤3.0	≤1.0	≤3.0	≤1.0

Physical Specifications

Fiber Count	**Weight (Kg/km)**	**Tensile Strength (N)**		**Overall Diameter (mm)**
		Long Term	**Short Term**	
2	15	200	400	4.0
4	18	200	400	4.9
6	23	300	600	5.2
8	27	300	600	5.5
12	36	300	600	6.2
24	65	300	600	8.5
48	110	400	800	10.5

Ordering Information

FTM – XX – XX – TB – I / O

No. of Fibers

04	4 Fibers
12	12 Fibers
24	24 Fibers

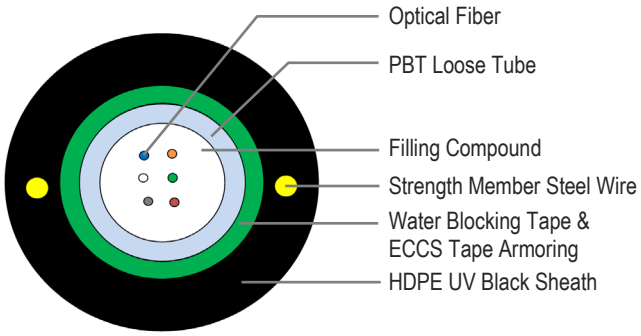
Fiber Type

SM	Singlemode G.652.D
M3	Multimode OM3
M4	Multimode OM4

Example

Part No.	**Description**
FTM-48-SM-TB-I/O	Fiber optic tight-buffered distribution cable, 48 fibers, singlemode G.652.D, aramid yarn strength members, LSZH, yellow

* Other cable designs and specifications are available upon request.



Cable Specifications

No of Fibers/Tube	Up to 12F
Type of Loose Tube	PBT Loose Tube Filled with Thixotropic Gel
No. of Loose Tubes	1 Central Tube
Tube Identification/Color	Natural
Water Blocking Tape	Applied Over Tube for Moisture Resistance
Strength Member	Steel Wire 1.0 ± 0.1 mm X 2 No's
Armoring	Corrugated ECCS Tape
Outer Jacket	HDPE Black Color - 1.8 mm

Cable Mechanical & Physical Characteristics

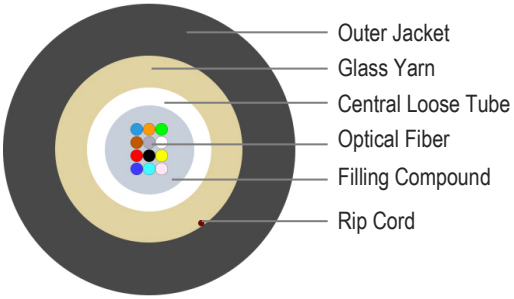
Cable Mechanical Characteristics	Max. Tensile Strength	1500 N
	Crush Resistance	2000 N/10 CM
	Impact Resistance	50 Nm
	Min. Bending Radius (Long Term)	20D (D= Cable Dia. mm)
Cable Physical Characteristics	Cable Diameter	8.5 ± 0.5 mm
	Nominal Cable Weight	75 Kgs
	Packing Length	2 KM ± 5% & SLG > 500 Meter
Mechanical & Operating Characteristics	Operating Temperature	-20° C to +70° C
	Fiber Proof Test	1%
	Strip ability Force	1.3 < F < 8.9 N
	Fiber Curl	4 meter radius of curvature

Ordering Information

Part No.	Description
FTM-OFC-6F-CT-ARM-SJ	Fiber optic central loose tube cable, 6 fibers, singlemode G.652.D, steel tape armor, gel-filled tube, single armor, single jacket (SASJ), 2 steel wires, HDPE, black
FTM-OFC-12F-CT-ARM-SJ	Fiber optic central loose tube cable, 12 fibers, singlemode G.652.D, steel tape armor, gel-filled tube, single armor, single jacket (SASJ), 2 steel wires, HDPE, black
FTM-OFC-12F-M3-ARM-SJ	Fiber optic central loose tube cable, 12 fibers, multimode OM3, steel tape armor, gel-filled tube, single armor, single jacket (SASJ), 2 steel wires, HDPE, black
FTM-OFC-12F-M4-ARM-SJ	Fiber optic central loose tube cable, 12 fibers, multimode OM4, steel tape armor, gel-filled tube, single armor, single jacket (SASJ), 2 steel wires, HDPE, black

* Other cable designs and specifications are available upon request.

Central Loose Tube Non-Armored Cables



Cable Specifications

Fiber	Singlemode		G.652.D, 9/125 µm	
	Maximum Fiber Attenuation (dB/Km)		@1310 nm: ≤ 0.4	@1550 nm: ≤ 0.3
Loose Tube	Water Blocking Compound		Thixotropic gel to prevent water ingress in loose tube	
	Tube		Thermoplastic material (PBT), 4.0 mm nominal OD	
Cable	Peripheral Strength Member		Glass yarn for rodent resistant and to meet tensile strength	
	Rip Cord		Polyester based yarns	
	Outer Sheathing		UV proof black LSZH, 1.0 mm minimum	
Mechanical	Max. Tensile strength		1600N	
	Minimum Bend Radius	During Installation	20D	
		After Installation	10D	
	Crush Resistance		3000N/10cm	
	Impact strength		25Nm	
	Torsion		± 180°	
Environmental	Temp. Performance	Installation	-10°C to +60°C	
		Service	-10°C to +70°C	
		Storage	-10°C to +70°C	
		Drip Test	30 cm, 70°C, 24 hr	

* All tests shall be carried out as per IEC standards. Change in attenuation shall be < 0.05 dB

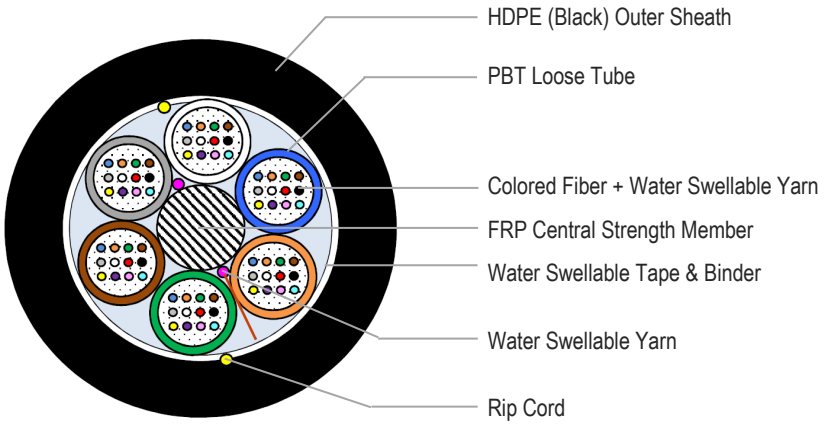
Cable Construction

Fiber Count	Tubes	Bundle/ Binder	Color of Loose Tubes	Fiber Color	Diameter of Cable (+ 0.5) (mm)	Weight of Cable (+/-10%) (kg/km)
8	1	NA	White	Blue, Orange, Green, Brown, Slate, White, Red, Black.	7.4	65
12	1	NA	White	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua	7.4	65

Ordering Information

Part No.	Description
FTM-OFC-12-LT-I/O	Indoor/outdoor fiber optic cable, central loose tube, singlemode G.652.D, 12 fibers, non-armored, glass yarn rodent protection, gel-filled tube, LSZH, black
FTM-OFC-8-OM3-I/O	Indoor/outdoor fiber optic cable, central loose tube, multimode OM3, 8 fibers, non-armored, glass yarn rodent protection, gel-filled tube, LSZH, black
FTM-OFC-12-OM3-I/O	Indoor/outdoor fiber optic cable, central loose tube, multimode OM3, 12 fibers, non-armored, glass yarn rodent protection, gel-filled tube, LSZH, black

* Other cable designs and specifications are available upon request.



Cable Specifications

No of Fibers Per Tube	12 Fibers
Type of Fiber	Singlemode G.652.D, Multimode OM3, Multimode OM4
Tube Color	Blue, Orange, Green, Brown, Slate, White
Fiber Identification	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink & Aqua
Loose Tube Type	PBT Loose Tube with Fibers & Water Swellable Yarn (Outer Dia.: 2.5 mm Nominal)
No of Loose Tubes & Fillers	6 Loose Tubes (For 72F Fiber Optic Cable)
Central Strength Member	Fiber Reinforced Plastic – FRP (Non-Metallic)
Moisture Barrier	Water Swellable Tape & Water Swellable Yarn
Core Wrapping	Water Swellable Tape with Binder
Rip Cord	Two Rip Cords applied below the Outer Sheath
Outer Sheath	High Density Polyethylene (HDPE), UV Resistance, Black Color

Mechanical & Environmental Properties

Properties	Standards	Specified Values / Applicable Parameters
Max. Tensile Strength, Short-Term	IEC 60794-1-2-E1	2700 N
Max. Tensile Strength, long-Term	IEC 60794-1-2-E1	890 N
Min. Bend Radius Installation	IEC 60794-1-2-E11	158 mm
Min. Bend Radius Operation	IEC 60794-1-2-E11	105 mm
Operating Temperature	IEC 60794-1-2-F1	-40° C to +70° C
Installation Temperature	IEC 60794-1-2-F1	-30° C to +70° C
Storage Temperature	IEC 60794-1-2-F1	-40° C to +70° C

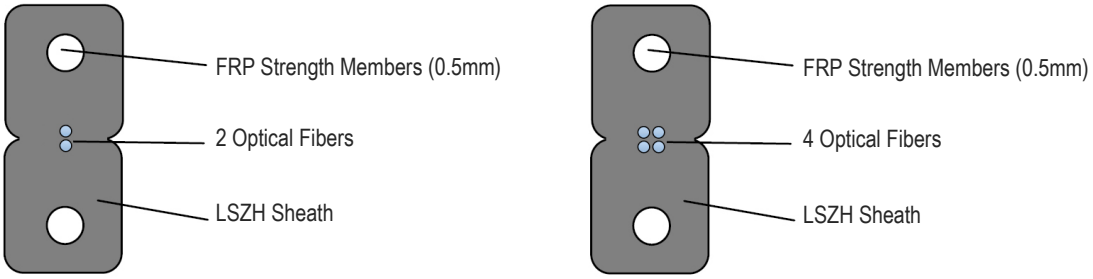
Physical Characteristics

Cable Outer Diameter	10.2 mm Nominal
Cable Weight	73.0 Kg/Km Nominal
Cable Length Per Drum	2.0 / 4.0 Km ± 10%

Ordering Information

Part No.	Description
FTM-72F-LT-SMUA	Outdoor fiber optic cable, multi-loose tube, singlemode G.652.D, 72 fibers, non-armored, gel-free construction, HDPE, black

* Other cable designs and specifications are available upon request.



Fiber Specifications

Characteristics		Unit	Value
Attenuation	@ 1310 nm	dB/km	≤ 0.35
	@ 1383 nm		≤ 0.33
	@ 1550 nm		≤ 0.21
Chromatic Dispersion	1285 - 1330 nm	ps/nm.km	≤ 3.5
	1550 nm		≤ 18.0
Zero Dispersion Wavelength		nm	1300 to 1324
Zero Dispersion Slope		ps/nm2.km	≤ 0.092
Polarization Mode Dispersion		ps/√km	≤ 0.20
Cable Cut Off Wavelength		nm	≤ 1260
Mode Field Diameter at 1310 nm		µm	8.6 ± 0.4
Core-Clad Concentricity Error		µm	≤ 0.5
Cladding Non-Circularity		%	≤ 1.0
Cladding Diameter		µm	125 ± 0.7
Coating Diameter		µm	245 ± 5
Fiber Identification	2 Fibers	N/A	Blue, Orange
	4 Fibers		Blue, Orange, Green, Brown

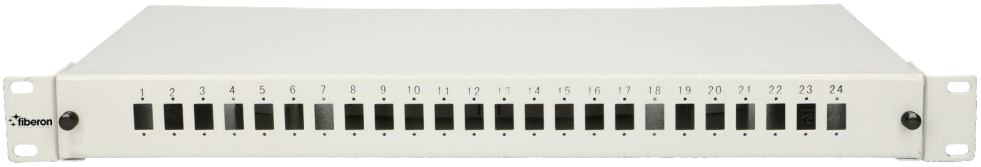
Mechanical Specifications

Characteristics		Unit	Value
Tensile Strength		N	660
Crush Resistance	Short Term	N/100mm	2200
	Long Term		1000
Cable Dimensions	Height	mm	2.0 ± 0.1
	Width		3.1 ± 0.2
Weight		kg/km	9.5 ± 1.0
Operating Temperature		°C	-40 to +70

Ordering Information

Part No.	Description
FTM-02-CA2-DC-A1	Fiber optic FTTH drop cable, 2 fibers, singlemode G.657.A1, LSZH, white, 1000m reel
FTM-04-CA2-DC-A1	Fiber optic FTTH drop cable, 4 fibers, singlemode G.657.A1, LSZH, white, 1000m reel
FTM-02-CA2-DC-A2	Fiber optic FTTH drop cable, 2 fibers, singlemode G.657.A2, LSZH, white, 1000m reel
FTM-04-CA2-DC-A2	Fiber optic FTTH drop cable, 4 fibers, singlemode G.657.A2, LSZH, white, 1000m reel

* Other cable designs and specifications are available upon request.



Features

- Standard simplex SC footprint front plate ports
- High quality laser cut and powder paint
- Sliding design for easy front access and maintenance
- Compact depth for convenient installation in wall-mounted cabinets
- Complete with splice trays and splice protection sleeves
- Unloaded design accepts SC simplex & LC duplex adapters
- RoHS Compliant

Applications

Fiber Optic Backbone for Campus and LAN Cabling
FTTH/FTTX/PON Networks

Technical Specifications

Number & Type of Ports	24 Simplex SC Ports
Compatible Adapters	Simplex SC, Duplex LC, Any Simplex SC Footprint Adapters
Maximum Fusion Splice Capacity	48
Splice Trays	2 x 24-Fiber Splice Trays
Splice Protection Sleeves	24 x 60mm Heat-Shrink Splice Protection Sleeves
Rear Cable Entries	4
Material	Sheet Steel
Color	Light Gray RAL7035, Powder Coated (Black Color Available Upon Request)
Gross Weight (kgs)	2.4 (Without Connectivity)
Dimensions	19” Width, 1U Height, 202mm Depth

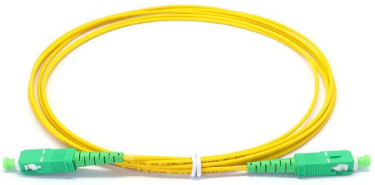
Ordering Information

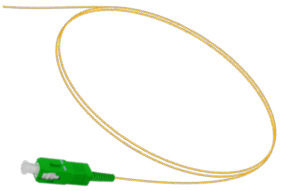
Part No.	Description
FTM-ODR-1IX-24-MH-XA-XX	19” Sliding fiber optic patch panel, 24 simplex SC footprint ports, splice trays for up to 48 fusion splices, 24 heat-shrink splice protection sleeves, unloaded, 1U

* Other panel capacities are available upon request.

Features

- Telcordia, EIA/TIA, IEC and JIS compliance
- TIA/EIA-604-3
- Free floating ceramic ferrule
- Injection molded UL rated housing
- Precision anti-rotation key and corrosion resistant body
- RoHS Compliant





Applications

CATV, FTTH, and Telecommunication Networks
LAN, MAN, and WAN Networks

Product Specifications

Connector Color	**SM APC**		Green
	SM UPC		Blue
	MM OM1		Beige
	MM OM2		Beige
	MM OM3		Aqua
	MM OM4		Aqua or Violet (Based on customer preferences)
Ferrule Material			Zirconia Ceramic
Connector Insertion Loss Max.			0.3dB
Return Loss	**APC (8° Angle)**		≥ 60dB
	UPC		≥ 50dB
	PC		≥ 45dB
Cable Type	**Patch Cord**	**Simplex**	2mm Round
			3mm Round
		Duplex	1.6mm Zipcord
			2.0mm Zipcord
			3.0mm Zipcord
	Pigtail	**Simplex**	900µm Semi Tight Buffer
			900µm Tight Buffer

Ordering Information

Code		Fiber Type		Assembly Side A				Assembly Side B				Cable Type		Cable Jacket		Cable Color		Length		Length Unit	
				Connector		Polishing		Connector		Polishing											
SJ	Simplex	**62**	OM1	**A**	SC	**P**	PC	**A**	SC	**P**	PC	**2MZ**	2.0mm zipcord	**A**	Riser	**B**	Blue	**001**	1	**M**	Meter
DJ	Duplex	**50**	OM2	**B**	LC	**U**	UPC	**B**	LC	**U**	UPC	**3MZ**	3.0mm zipcord	**B**	Plenum	**O**	Orange	**1.5**	1.5		
SP	Pigtail	**10**	OM3			**A**	APC	**X**	None	**A**	APC	**16Z**	1.6mm zipcord	**C**	PVC	**A**	Aqua	**002**	2		
		M4	OM4						(Pigtail)	**X**	None	**2MR**	2mm round	**D**	LSZH	**Y**	Yellow	**003**	3		
		08	G.652.D								(Pigtail)	**3MR**	3mm round					**005**	5		
		57	G.657.A1									**9TB**	900µm tight buffer								
		A2	G.657.A2									**9ST**	900µm semi tight buffer								

Examples

Part No.	Description
SJ-08-AA-AA-2MR-DY-001M	SC/APC to SC/APC simplex patch cord, singlemode G.652.D, 2mm round cable, LSZH, yellow, 1 meter
SJ-08-BA-AA-2MR-DY-001M	LC/APC to SC/APC simplex patch cord, singlemode G.652.D, 2mm round cable, LSZH, yellow, 1 meter
SP-08-AA-XX-9ST-DY-1.5M	SC/APC simplex pigtail, singlemode G.652.D, 900µm semi tight buffer, LSZH, yellow, 1.5 meter
SP-08-BA-XX-9ST-DY-1.5M	LC/APC simplex pigtail, singlemode G.652.D, 900µm semi tight buffer, LSZH, yellow, 1.5 meter

Features

- Quick and easy field installation in less than 2 minutes
- No epoxy, polishing, or special tools required
- Time and power saving; no need for hot melting
- High performance mechanical splicing for fiber termination
- Available in singlemode or multimode
- RoHS Compliant

Applications

FTTH outlets
Fiber terminal boxes
Optical distribution frames
Maintenance or emergency restoration of fiber optic networks
Industrial and military environments

Technical Specifications

Compatible Fiber Optic Cable	3.0 x 2.0 mm Drop Cable					
Optical Fiber Diameter	**Singlemode**	9/125 µm		**Multimode**	50/125, 62.5/125 µm	
Installation Time	Less Than 2 Minutes					
Insertion Loss	**Average Value**	≤ 0.3dB		**Max Value**	≤ 0.5dB	
Return Loss	**SM APC**	≥ 55dB	**SM UPC**	≥ 45dB	**MM PC**	≥ 30dB
Fastening Strength of Fiber	> 5N					
Tensile Strength	> 20N					
Operating Temperature	-40 to +75 °C					
On-line Tensile Strength (20 N)	**Δ IL**	≤ 0.2dB		**Δ RL**	≤ 5dB	
Mechanical Durability (500 Times)	**Δ IL**	≤ 0.2dB		**Δ RL**	≤ 5dB	
Drop-off Test	**Δ IL**	≤ 0.2dB		**Δ RL**	≤ 5dB	

Ordering Information

Part No.	Description
FTM-SC-SX-31	SC/APC fast connector, simplex, singlemode, for 3.0 x 2.0 mm drop cable, green
FTM-SC-SX-21	SC/UPC fast connector, simplex, singlemode, for 3.0 x 2.0 mm drop cable, blue
FTM-SC-SX-13	SC/PC fast connector, simplex, multimode OM3, for 3.0 x 2.0 mm drop cable, aqua
FTM-SC-SX-14	SC/PC fast connector, simplex, multimode OM4, for 3.0 x 2.0 mm drop cable, aqua

Features

- Quick and easy field installation in less than 2 minutes
- No epoxy, polishing, or special tools required
- Time and power saving; no need for hot melting
- High performance mechanical splicing for fiber termination
- Available in singlemode or multimode
- RoHS Compliant

Applications

FTTH outlets
Fiber terminal boxes
Optical distribution frames
Maintenance or emergency restoration of fiber optic networks
Industrial and military environments

Technical Specifications

Compatible Fiber	0.9mm Tight-Buffered Fiber					
Optical Fiber Diameter	**Singlemode**	9/125 µm		**Multimode**	50/125, 62.5/125 µm	
Installation Time	Less Than 2 Minutes					
Insertion Loss	**Average Value**	≤ 0.3dB		**Max Value**	≤ 0.5dB	
Return Loss	**SM APC**	≥ 55dB	**SM UPC**	≥ 45dB	**MM PC**	≥ 30dB
Fastening Strength of Fiber	> 5N					
Fastening Strength of Fiber Holder	> 10N					
Tensile Strength	> 50N					
Operating Temperature	-40 to +75 °C					
On-line Tensile Strength (20 N)	**△ IL**	≤ 0.5dB		**△ RL**	≤ 5dB	
Mechanical Durability (500 Times)	**△ IL**	≤ 0.5dB		**△ RL**	≤ 5dB	
Drop-off Test	**△ IL**	≤ 0.5dB		**△ RL**	≤ 5dB	

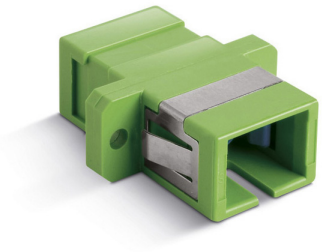
Ordering Information

Part No.	Description
FTM-LC-SX-31	LC/APC fast connector, simplex, singlemode, for 0.9mm tight-buffered fiber, green
FTM-LC-SX-21	LC/UPC fast connector, simplex, singlemode, for 0.9mm tight-buffered fiber, blue
FTM-LC-SX-13	LC/PC fast connector, simplex, multimode OM3, for 0.9mm tight-buffered fiber, aqua
FTM-LC-SX-14	LC/PC fast connector, simplex, multimode OM4, for 0.9mm tight-buffered fiber, aqua

SC Adapters

Features

- Telcordia, EIA/TIA, IEC and JIS compliance
- High precision alignment
- Outstanding optical performance and high reliability
- With or without flange options for flexible installation
- RoHS compliant



Ordering Information

Code	Type		Color		Sleeve Type		Flange	
AD-SC	SX	Simplex	1	Blue	1	Zirconia Ceramic	FL	With Flange
	DX	Duplex	2	Black	2	Phosphor Bronze	NF	No Flange
			3	Green				
			4	Beige				
			5	Aqua				

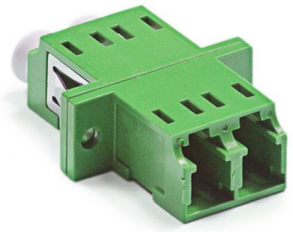
Example

Part No.	Description
AD-SC-SX-31-FL	SC simplex adapter, SC simplex footprint, green, zirconia ceramic sleeve, flanged type

LC Adapters

Features

- Telcordia, EIA/TIA, IEC and JIS compliance
- High precision alignment
- Outstanding optical performance and high reliability
- With or without flange options for flexible installation
- RoHS compliant



Ordering Information

Code	Type		Color		Sleeve Type		Flange	
AD-LC	DXSJ	Duplex	1	Blue	1	Zirconia Ceramic	FL	With Flange
	QDSJ	Quad	2	Black	2	Phosphor Bronze	NF	No Flange
			3	Green				
			4	Beige				
			5	Aqua				

Example

Part No.	Description
AD-LC-DXSJ-31-FL	LC duplex adapter, SC simplex footprint, green, zirconia ceramic sleeve, flanged type

FTM-OWMO-01-02-XX-XX-XX

FTM-WMO-02-MH-5A-1A

FTM-OWMO-03-04-XX-XX-XX

Features

- Ergonomic, small, and compact design
- Removable self-clipped cover for quick access
- Fast and easy installation
- RoHS Compliant

Applications

FTTH Micro ODF
GPON Customer Premises Outlet
Field installable connector termination

Technical Specifications

Parameters	FTM-OWMO-01-02-XX-XX-XX	FTM-WMO-02-MH-5A-1A	FTM-OWMO-03-04-XX-XX-XX
Maximum Fiber Capacity	2	2	4
No. of Ports & Type	2 Simplex SC Footprint Ports	2 Simplex SC Footprint Ports	4 Simplex SC Footprint Ports
Material	PC/ABS	PS 454 C (UL94 HB)	PC/ABS
Color	RAL 9003 (Signal White)		
Operating Temperature Range (°C)	-20 to +50		
Relative Humidity (%)	5 to 95		
Dimensions Width x Height x Depth (mm)	86 x 86 x 23	120 x 100 x 24	150 x 110 x 30

Ordering Information

Part No.	Description
FTM-OWMO-01-02-XX-XX-XX	Indoor fiber termination box/micro ODF, 2 simplex SC footprint ports, 86 x 86 mm, signal white, empty
FTM-WMO-02-MH-5A-1A	Indoor fiber termination box/micro ODF, 2 simplex SC footprint ports, 120 x 100 mm, signal white, empty
FTM-OWMO-03-04-XX-XX-XX	Indoor fiber termination box/micro ODF, 4 simplex SC footprint ports, 150 x 110 mm, signal white, empty
FTM-OWMO-03-04-SH-5A-1A	Indoor fiber termination box/micro ODF, 4 simplex SC footprint ports, 150 x 110 mm, signal white, complete with 4 SC simplex green adapters, 4 SC/APC singlemode pigtails, and 4 splice protection sleeves

Features

- IP66 for outdoor installations
- Made of high impact plastic
- Can accommodate 1 x 4 PLC splitter (to be ordered separately)
- Ultraviolet resistant and rainfall resistant
- Up to 4 FTTH drop cables
- Wall/pole mounting options for both indoor & outdoor locations
- RoHS Compliant

Applications

FTTH Access Networks
Telecommunication Networks
CATV Networks
Passive Optical Networks

Technical Specifications

Maximum Fiber Capacity	4	
No. of Ports & Type	4 SC Simplex Footprint Ports	
Material	PC + ABS	
Degree of Protection	IP66	
Color	White	
Operating Temperature Range (ºC)	-40 to +85	
Relative Humidity (%)	≤ 85% (+30°C)	
Incoming Cable Diameter (mm)	Φ7 ~ Φ10	
Outgoing Cable Diameter (mm)	Drop Cables: 2 x 3	Patch Cords: 2 ~ 3
Dimensions: Width x Height x Depth (mm)	116 x 186 x 41	

Ordering Information

Part No.	Description
FTM-FTB-01-04-XX-XX-IP66	Outdoor fiber termination box/micro ODF, 4 SC simplex footprint ports, 4 splice protection sleeves, 186 x 116 mm, white, empty

FTM-OTB-XXX-AP-5A-1A

FTM-OTB-72F-AP-5A-1A

Features

- Ten round cable entries for outgoing drop cables and one oval cable entry for incoming distribution cable
- Suitable for mid-span splicing of backbone fiber optic cables
- Standard compliance with YD/T1313-2008

Applications

Splicing/Patching of Fiber Optic Distribution Cable to Drop Cables
Wall-Mounted FTTH Mini Optical Distribution Frame (ODF)/Access Point

Technical Specifications

Parameters	FTM-OTB-XXX-AP-5A-1A	FTM-OTB-72F-AP-5A-1A
Integrated Patch Panel Port No. & Type	36 Simplex SC Footprint Ports	
Maximum Fusion Splicing Capacity	72	
SC/APC Simplex Pigtails & Adapters	Unloaded	36
Splice Trays	3 x 24–Fiber Splice Trays	
Splice Protection Sleeves	72 x 60-mm Splice Protection Sleeves	
Material	High Quality Cold Rolled Steel Plate with Surface Electrostatic Painting	
Color	RAL 9003	
Operating Temperature Range (ºC)	-40 to +60	
Relative Humidity	≤ 85%	
Atmospheric Pressure (kPa)	70 to 106	
Degree of Protection	IP55	
Dimensions: Height x Width x Depth (mm)	420 x 280 x 120	420 x 250 x 120

Ordering Information

Part No.	Description
FTM-OTB-XXX-AP-5A-1A	Indoor/outdoor fiber optic distribution enclosure/mini ODF/access point, 36 simplex SC ports, unloaded, up to 72 fiber splicing capacity, 3 x 24-fiber splice trays, 72 x 60-mm splice protection sleeves, IP55
FTM-OTB-72F-AP-5A-1A	Indoor/outdoor fiber optic distribution enclosure/mini ODF/access point, 36 simplex SC ports, loaded with 36 SC/APC pigtails & 36 SC green adapters, up to 72 fiber splicing capacity, 3 x 24-fiber splice trays, 72 x 60-mm splice protection sleeves, IP55

* Other capacities and configurations are available upon request.

19” 1U Fiber Optic PLC Splitter Panels

Features

- Low insertion loss
- Excellent splitting uniformity
- Low Polarization Dependent Loss (PDL)
- High broadband operating wavelength (1260 to 1650nm)
- Compact design
- RoHS Compliant

Applications

FTTH/PON Networks

Technical Specifications

Splitter	Operating Wavelength (nm)		1260 to 1650
	Insertion Loss (dB)	@ 1310 - 1550nm	≤ 17.5
		@ 1260 - 1650nm	≤ 17.9
	Loss Uniformity (dB)		≤ 1.5
	PDL (dB)		≤ 0.3
	Directivity (dB)		≥ 55
	Wavelength Dependent Loss (dB)		0.3
	Return Loss (dB)		≥ 55
	Storage Temperature Range (°C)		-40 to +85
	Operating Temperature Range (°C)		-40 to +85
	Dimensions W x D x H (mm)		435 x 200 x 44 (±1.0)
	Fiber Type (In and Out)		ITU-T G.652.D, IEC 60793-2-50, B1.3 (Optional G.657.A1)
	Fan-Out (In and Out)		900µm Transparent Tube, L = 1.2m
	Connectivity		SC/APC, SC/UPC, LC/APC, or LC/UPC
Adapter	Material	Housing	PBT
		Hook	PES or PPS
		Dust Cap	PP
		Sleeve	Zirconia Ceramic
	Color	APC Connectivity	Green
		UPC Connectivity	Blue
	Insertion Loss (dB)		≤ 0.2 (Typical)
	Withdrawal Force (N)		2.0 to 5.9
	Durability (dB)		< 0.1 Typical Change, 500 Mating Cycles (Meets GR-326 Requirements)
	Mounting Dimension (mm)	Cut Out	13.2 x 9.7
		Thickness	1.6

* Value of parameters are at room temperature, 1310 & 1550nm, and without connectors

Ordering Information

Part No.	Description
F4M-PLCB-1X2X32-01-B-B	19” fiber optic PLC splitter panel, 2 x 32 splitting ratio, SC/APC adapters, black, 1U
F4M-PLCB-1X2X32-01-A-B	19” fiber optic PLC splitter panel, 2 x 32 splitting ratio, LC/APC adapters, black, 1U

* Other PLC splitter panel capacities and colors are available upon request.

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576F FDH

Features

- Robust SMC structure for durable service
- Factory loaded with all splicing and termination modules for faster deployment
- High density and compact size design
- Available parking adaptors for unused PLC splitter connectors
- Suitable for outdoor/indoor environments
- Separate routing for backbone and distribution cables for convenient management and maintenance
- Supports ABS box type and module type optical splitters

Applications

Splicing/patching of fiber optic feeder cable to distribution cables
FTTX/PON deployments

Physical Performance

- Repeated mating durability more than 500 times
- Perfect optical route design to ensure bend radius of fibers greater than 30 mm
- Inflammability compliance with GB5169.7 Experiment A

Technical Specifications

Cabinet Dimensions	1400 x 764 x 620 mm					
Port Density	576 Fibers					
Cabinet Access	Front and back					
Mounting Options	Floor Mounting					
Direct Splicing Capacity	**Front**	144F		**Back**	144	
Parking Tray Capacity	**Front**	288		**Back**	288	
Splitter Module Slot Capacity	**Front**	26		**Back**	26	
Splitter Types	ABS Box 2:32					
Connector Types	SC/APC					
Color	Gray					
Material	Sheet Molding Compound (SMC)					
IP Rating	IP65					
Insertion Loss	≤ 0.3dB					
Return Loss	**PC**	≥ 40dB	**UPC**	≥ 50dB	**APC**	≥ 60dB
Insulation Resistance	≥ 1000 MΩ/500V (DC)					
Dielectric Strength	≥ 3000V (DC)/1min, No breakdown and no flying arc at a voltage					

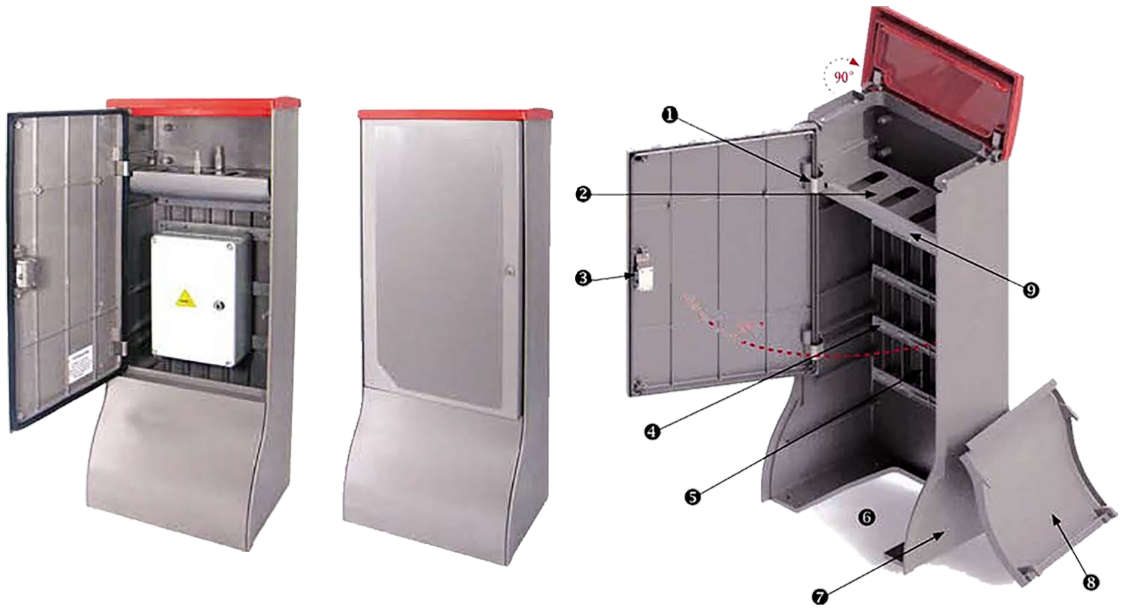
Environmental Data

Operating Temperature	-40 to +60 °C
Relative Humidity	≤ 85% (+30 °C)
Atmospheric Pressure	70~106 KPa

Ordering Information

Part No.	Description
FTM-FDH-576-MH-5A-1A	Outdoor fiber distribution hub (FDH), 576 fibers, SC/APC connectors, complete with splicing/patching modules, PLC splitters, all related accessories, gray, IP65

* Other capacities and configurations are available upon request.



Distribution Post is a termination point or sectioning point of the telephone networks (either copper or fiber) to the customers. Generally, it is installed in proximity of the end user. The distribution post is designed to be installed for copper networks, fiber optic networks, or in a hybrid combination. Internally, you can accommodate IDC modules for copper cable termination and boxes for splicing and termination of fiber optic cables.

Fiber optics cables (access network or end user) are terminated through the splicing of connectorized patch-cords within appropriate cassettes with a maximum capacity up to 48 fibers.

The distribution post can be fixed to ground using a galvanized iron frame or with a basement of composite material (VTR/SMC).

Features & Benefits

- IP rated for outdoor installations
- Suitable for copper and fiber optic cable distribution

Components

No.	Description
1	Stainless steel hinges
2	Plate to install IDC modules
3	Mini lock type
4	Supports cable lock (3)
5	Guides for cable entry
6	Cable entry
7	Pedestal Body
8	Safety blocked door
9	Cover

Ordering Information

Part No.	Description
FTM-DP-90-5A-1A	Outdoor network distribution post for copper/fiber optic cables, 900 (H) x 350 (W) x 260 (D)

* Other capacities and configurations are available upon request.

FOSC with Mechanical/Heat Shrinkable Sealing Ports

FOSC with Mechanical Sealing Ports

FOSC with Heat Shrinkable Sealing Ports

The closure is widely used to connect and branch fiber optic cables in aerial, underground, and direct buried applications. The closure ports adopt fully mechanical sealing methods. The ambient temperature ranges from -40°C to 70°C.

Fiber optic splice closure is single-ended and environmentally sealed to provide the functions of splicing and passive component integration in outside plant (OSP) applications.

It is equipped for all cable termination and sealing requirements. The base and dome are sealed with a clamp and an O-ring system. One or two oval entry ports for looped (uncut) cable and six, eight or eighteen round ports for drop cables are provided in the base. Uncut loose buffer tube storage space is available between the two stacks. Depending on the installation conditions, suitable cable sealing kits are available.

Mechanical Specifications

Parameter	Heat Shrinkable Sealing Types	Mechanical Sealing Types
Dimensions (Height x Diameter)	540 × 205 mm	420 x 235 mm
Weight	3000g~3600g	2350g ~ 3500g
Number of Ports	4 (Other port counts available)	6 (Other port counts available)
Diameter of Fiber Cable	Ø8mm～ Ø36mm	Ø 8mm～Ø 20 mm
Splicing Capacity	Bunchy:24~96 (cores), Ribbon: up to 288 (cores)	Bunchy: 24~144 Cores, Ribbon: up to 432 Cores
IP Rating	IP68	

Ordering Information

Part No.	Description
FTM-FOSC-24FM	Fiber optic splice closure with mechanical sealing ports, up to 24 fibers splicing capacity, IP68
FTM-FOSC-48FM	Fiber optic splice closure with mechanical sealing ports, up to 48 fibers splicing capacity, IP68
FTM-FOSC-144FM	Fiber optic splice closure with mechanical sealing ports, up to 144 fibers splicing capacity, IP68
FTM-FOSC-24FH	Fiber optic splice closure with heat shrinkable sealing ports, up to 24 fibers splicing capacity, IP68
FTM-FOSC-48FH	Fiber optic splice closure with heat shrinkable sealing ports, up to 48 fibers splicing capacity, IP68
FTM-FOSC-144FH	Fiber optic splice closure with heat shrinkable sealing ports, up to 144 fibers splicing capacity, IP68

* Other capacities and configurations are available upon request

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