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FIBER OPTIC TECHNOLOGY

Fiber Optic Solutions

FOSTEC
www.fostec.co.kr

FOSTEC Inc. is a fiber optic components, cables and equipment manufacturer in South Korea.

Being founded in 2001, FOSTEC could expand its market to more than 30 countries and keeps capturing customer's satisfaction by its high quality products, affordable prices and professional service.

FOSTEC has several distributors in U.A.E, Qatar, Mexico and Kazakhstan etc. The company had won several big tenders over the years in Middle East, CIS, Asia, and Europe.

FOSTEC always strives for excellence and keep developing its production and service.

With numerous export awards and loyal customers FOSTEC's vision is to become number one choice for customers in fiber optic industry!



Company History

- 2017** 11 FOBEX Acquired Certificate of word class product
- 2017** 07 Has been designated as a Promising export firm
- 2016** 08 Company expansion and relocation(Ansan-Si)
- 2015** 05 Supply agreement with Ministry of National Defense for C4I ATCIS project.
- 2014** 11 Supply agreement with Korean Army for Tactical Information Communication Network(TICN) project
- 2012** 11 "Venture Business Award" by Ministry of Knowledge Economy of Korea
- 2011** 10 "Best Corporation" Award from Siheung city government
- 2010** 10 Recognized for being an eco-friendly company
- 2009** 10 Selected as Innovative Small & Medium Enterprise (MAIN-BIZ title)
- 2008** 11 Founded R&D center
- 2007** 03 Choice INNO-BIZ by Small-Medium Business Administration
- 2006** 11 Fiber Optic Mike & FOREX registration for a utility model by The Korea Industrial Property Office
- 2005** 12 Venture Company of choice SMBA(Kyonggi Do)
- 2004** 08 Acquired ISO9001, ISO14001 Certificate (No. AR010348)
- 2003** 03 Completed development of Digital Home System (HDTV, IP STB, DVD, Digital Monitor, 5.1 CH Sound)
- 2002** 06 Providing digital TV broadcasting system to OO region
- 2001** 02 Established corporation & Opening of the manufacturing factory
- 1998** 02 Started Fostec (private business)

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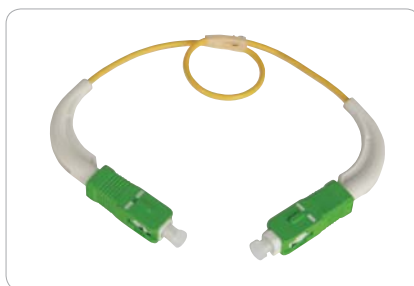
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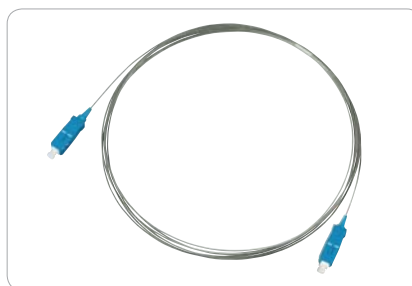
Optical Fiber Patch Cord



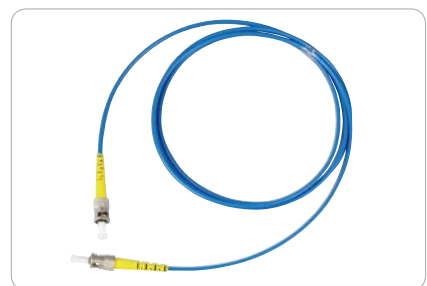
Fiber Optic Patch Cord



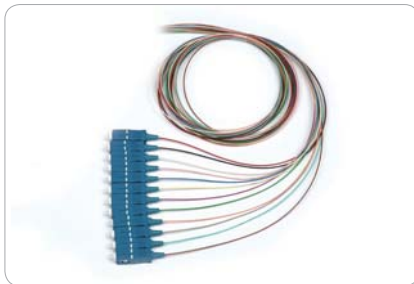
SC Angleboot



ø0.9 Armored Cord



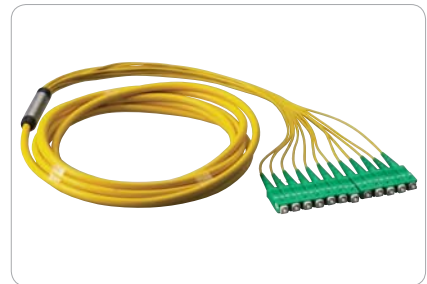
ø3.0 Armored Cord



Pigtails



Multi Patch Cord



Multi Patch Cord



ESCON-MTRJ



Breakout Cord



LC Uniboot



ODC



Outdoor



Outdoor(Armored)

Optical Fiber Patch Cord

Applications

- Telecommunication networks
- Local Area Networks
- CATV networks
- Active device termination
- Data system networks

Features & Benefits

- Compliant with: IEC, JIS, Telcordia
- Customer length
- Standard length of SC, FC and ST assemblies in stock
- Minimum loss

Specification

Parameter	Condition	Value [dB]		
		Min	Typical	Max
Insertion Loss			< 0.15	< 0.30
Return Loss	SPC	> 40	> 45	
	UPC	> 50	> 55	
	APC	> 60	> 65	
Mating Durability	500 times			< 0.20
Temperature Cycling	-40°C ~ + 85°C			< 0.20
Humidity Cycling	75°C, RH 95%			< 0.20
Vibration	10~55Hz [3 Axis]			< 0.20
Impact	1.5m drop, 8 times			< 0.20

Ordering Information

OPC

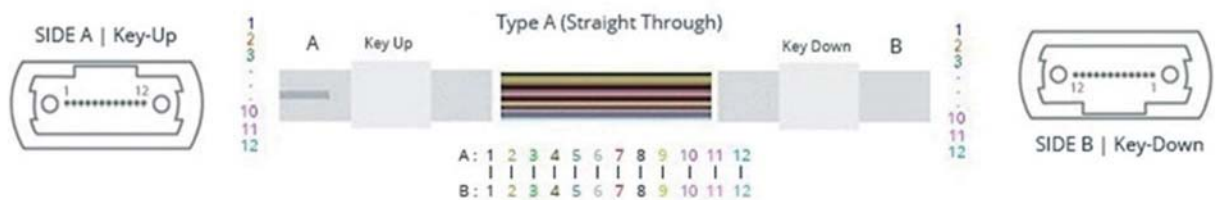
Optical Patch Cord	Fiber Type	Connector Type	Polishing Type	Connector Type	Polishing Type	Cable Length [m]	Cable Type	Cable Diameter
	G.652 [9/125]	SC, FC, ST	SPC	SC, FC, ST	SPC	1~999	SP: Simplex	ø0.9
	G.657 G.655 [9/125]	LC, MU	UPC	LC, MU	UPC		DP: Duplex Zip cord	ø2.0
	OM1 [62.5/125]	MTRJ, MPO	APC	MTRJ, MPO	APC		R: Duplex Round cord	ø2.4
	OM2 [50/125]	E2000, LX,5	PC	E2000, LX,5	PC		Other	ø3.0
	OM3 OM4 [50/125]	ESCON, SMA		ESCON, SMA				ø5.5
	PM [Polarization Maintaining]	OTHER		OTHER				Other

Optical Fiber Patch Cord (MPO/MTP Patch Cord)

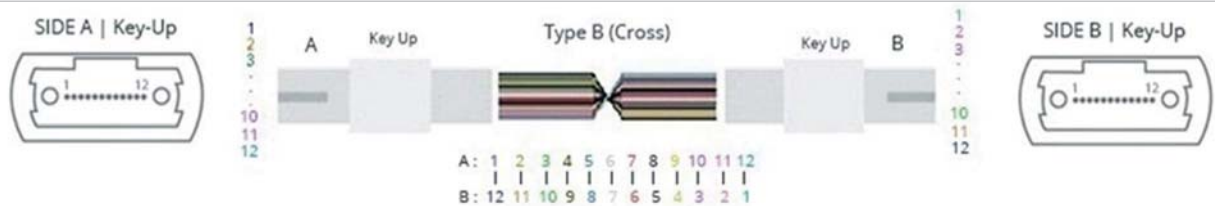


MPO communication Marks Division

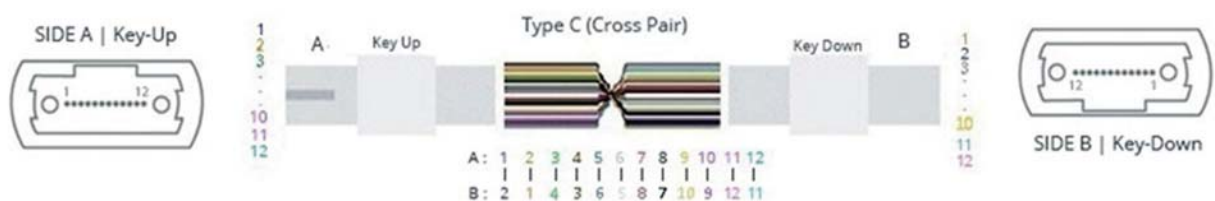
Polarity A : Straight Through



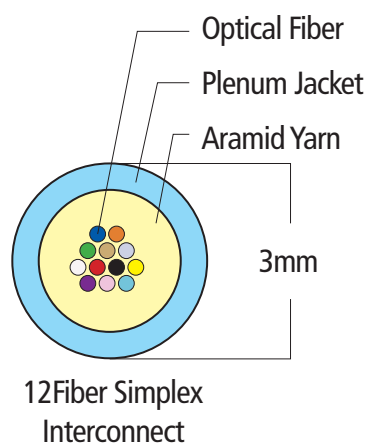
Polarity B : Cross



Polarity C : Cross Pair



Optical Fiber Patch Cord (MPO/MTP Solutions)



Applications

- SAN(Storage area Network)data center LAN
- LAN/SAN switch equipment distribution area(EDA)
- Emerging 40G and 100G protocol

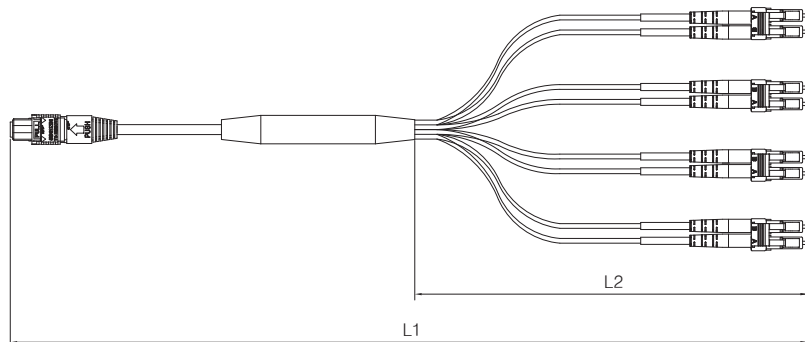
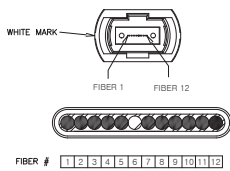
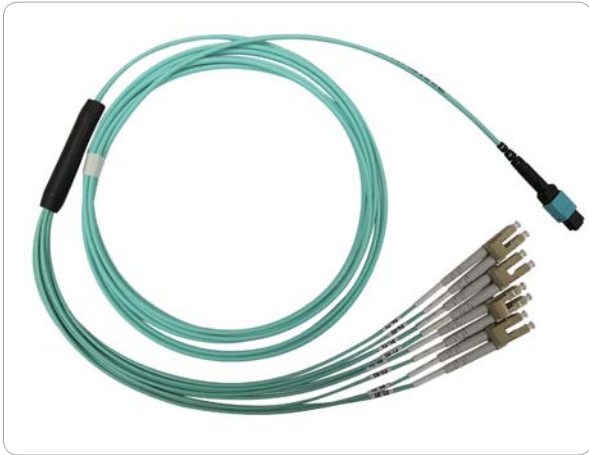
Features & Benefits

- MPO Connector complied with IEC-61754-7
- A quick-to- deploy
- Scalable solution
- High compatibility ,flexibility & system performance
- Lower installation cost

Specification

	Multi mode		Single mode	
	MM MT Elite Multi mode MT Ferrule	Standard Multi mode MT Ferrule	SM MT Elite Single-mode MT Ferrule	Standard Single-mode MT Ferrule
Insertion Loss	0.10dB Typical 0.35dB Maximum	0.20dB Typical 0.60dB Maximum	0.10dB Typical 0.35dB Maximum	0.25dB Typical 0.75dB Maximum
Optical Return Loss	> 20 dB	> 20 dB	> 60 dB(8° Angle Polish)	> 60 dB(8° Angle Polish)
Durability	< 0.20 dB typical change, 1000 matings			
Repeatability	< 0.20 dB typical change			
Tensile strength	>10kg			
Operating Temperature	-40°C to + 85°C			

Optical Fiber Patch Cord (MPO/MTP Solutions)



LC/PC Fiber Layout	
1	B
12	A
2	B
11	A
3	B
10	A
4	B
9	A

Ordering Information

OPC

Optical Patch Cord

Fiber Type

Fiber Count

Cable Type

Connector Type Side A

Polishing Type

Housing color

Connector Type Side B

Polishing Type

2=SM(G652D)
7=SM(G657A)
A=MM(62.5/125)
B=MM(50/125)
C=OM3(50/125)
D=OM4(50/125)

8=8C
A=12C
B=24C
C=36C
D=48C

X=Ribbon-Jacket
Y=Bare Ribbon
Z=Round

1=MPO(Male)
2=MPO(Female)

1=PC
2=APC

1=BLUE
2=Green
3=Gray
H=Aqua

1=MPO(Male)
2=MPO(Female)
3=LC
4=SC

1=PC
2=APC

Cable length (m)

Fan out length (m)

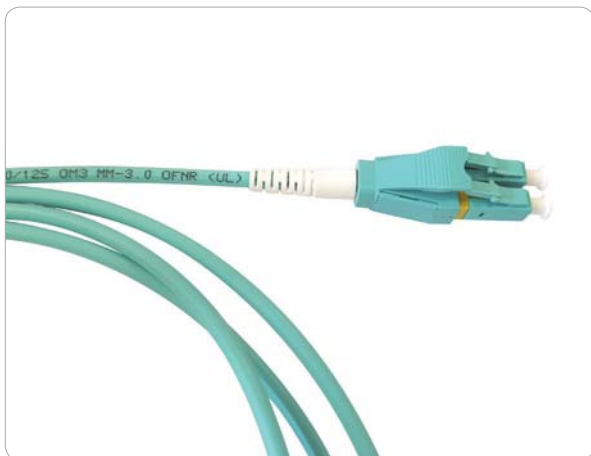
Polarity

1=1m
2=2m
-
-
2A=2.1m
2B=2.2m

0A=0.1m
0B=0.2m
0C=0.3m
-
-
-
-
1=1m
2=2m

A=Polarity A
B=Polarity B
C=Polarity C

Optical Fiber Patch Cord (LC Uniboot Patch Cord)



Applications

- SAN(Storage Area Network) data center LAN
- Have two dismount gap, easy to dismount
- Streamline design, good aesthetic
- Uniboot connector cable management
- Switchable Connector to change polarity
- MINI Boot & Flex angle boot available
- Right Angle Clip well for panel management

Features & Benefits

- Gigabit Ethernet
- Video
- Multimedia
- Active device termination
- Premise installations
- Telecommunication networks

Specification

Parameter	Condition	Value [dB]		
		Min	Typical	Max
Insertion Loss			< 0.15	< 0.30
Return Loss	SPC	> 40	> 45	
	UPC	> 50	> 55	
	APC	> 60	> 65	
Mating Durability	500 times			< 0.20
Temperature Cycling	-40°C ~ + 85°C			< 0.20
Humidity Cycling	75°C, RH 95%			< 0.20
Vibration	10~55Hz [3 Axis]			< 0.20
Impact	1.5m drop, 8 times			< 0.20

Optical Fiber Patch Cord (Outdoor)



PT/LC



FIP/LC



FODVA



ODC

Applications

- Outdoor Networks System
- FTTA System
- 3G, 4G, WIMAX, CDMA, LTE
- Industrial Connections
- Broadcasting
- Navy Shipboard

Features & Benefits

- Metal housing provides improved EMI protection
- Easy to install
- Robust and safe
- High density

Specification

Parameter	SM	MM
Insertion Loss	0.5dB	0.5dB
Return Loss	≥ 50dB	
Temperature Cycling	-40°C~+85°C	
Cable Retention	200N	
Ingress Protection Class	IP67	

TEST IEC61300

Outdoor Connectors



PT/LC Adaptor



PT/LC In-Line

Features

- Complies to applicable sections of MIL-C-26482 (Bayonet version)
- Available in single mode and multimode versions
- Waterproof
- Metal jam nut receptacle accepts standard LC connectors



MT-38999

Features & Benefits

- High fiber density in a relatively small circular connector package with all the advantages of the MIL-DTL-38999 Series III connector
- Three levels of alignment provide for precision fiber to fiber interface
- Shell-to-shell with keying to allow for alternate positions
- Insert plug to insert receptacle
- MT contact guide pins



LC-38999

Features & Benefits

- High fiber density in a relatively small circular connector package with all the advantages of the MIL-DTL-38999 Series III connector
- Three levels of alignment provide for precision fiber to fiber interface
- Shell-to-shell with keying to allow for alternate positions
- Insert plug to insert receptacle
- LC connector

Hybrid Optical fiber Cable & Connector



Cable Assembly



Hybrid Optical Fiber Receptacle Cable



Connectors



Receptacles

Applications

- HDTV
- CATV networks
- Data system networks
- Telecommunication network
- Local area network
- Broadcasting
- Transportation
- Special environments

Features & Benefits

- Push-pull self-latching system
- Very low optical loss
- Reliable design for outdoor application
- In-line connectors for chaining of cables
- World-wide product support
- Compact design
- (2 fibers, 2 power contacts and 2 signal contacts)
- Tested to the requirements of IEC 874-1
- UL 498 recognition
- Pre-terminated cables available
- Connecting wall terminal panels splice enclosures, etc
- All cable lines are protected by a spiral tube
- SC connectors SPC polish ($RL \geq 45\text{dB}$)
- Electrical lines come with nylon connectors, which are easily connected
- Optical Fiber cables are single-mode ($\lambda = 1.3\mu\text{m}$) with transmission loss of 0.5dB

Hybrid Optical Fiber Cable & Connector

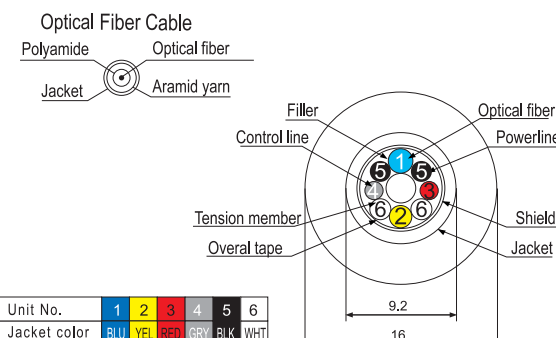
Specification

	Parameter	Power	Signal
Electrical Characteristics	Number of contacts	2	2
	Contact type for plugs	male	female
	Conductor AWG min	1.3mm	0.9mm
	Conductor AWG max	14mm	20mm
	Operating voltage max	≤600 V rms	≤42 V rms
	Contact resistance	< 3.6mΩ	< 4.8mΩ
Optical Characteristics	Number of fibers	2	
	Type of contact	F2	
	Fiber type	SM	
	Insertion loss	0.33 dB (1)	
	Return loss	> 45 dB (2)	

(1) Tested at 1310nm in accordance with IEC 874-1 method 7

(2) Super PC machine polishing

Type	Model	Nom O.D	Weight	Overall shield coverage	Tension tolerance	Bend radius tolerance	Temperature range
		mm	kg / 100m	%	N		
 LF-2SM9R Jacket color for LF-2SM9R, LF-2SM16: Black	LF-2SM9R	9.2	11.0	91.8	700 [71kgf]	Over 6 times cable outer diameter	-40°C ~ +80°C
	LF-2SM9						
	LF-2SM16	16.0	28.0				

Cross-Sectional View	Configuration	
 Unit No. 1 2 3 4 5 6 Jacket color BLU YEL RED GRN BLK WHT	Optical fiber cable	2 single-mode fibers (blue, yellow) Core outer diameter 0.9mm, jacket outer diameter 1.7mm Transmission loss 0.5dB/km or less (λ =1.3μm) 0.2dB or less when less than L >0.2km
	Power line	4×0.52mm ² (20 AWG, black, white) 21/0.18TA, conductor resistance 37.5Ω/km or less Insulation resistance 10000Ω or more · km Withstand voltage 1750V AC 1mm
	Control line	2×0.18mm ² (25 AWG, red, gray) 7/0.18TA, conductor resistance 113Ω/km or less Insulation resistance 10000Ω or more · km Withstand voltage 1750V AC 1mm

* Hybrid Optical Fiber Cable & Connector can be Customized for Special Orders (Color, Core, etc...)

Optical Fiber Adaptor



SC



LC



FC



ST



MU



E2000



MTRJ, MPO

Hybrid Adapter



SC-FC



SC-ST



ST-FC



LC-FC



LC-ST



SC-FC-DP



SC-LC



SC-LC

Specification

Parameter	Condition	Value [dB]
Insertion Loss		< 0.30
Mating Durability	500 times	< 0.20
Temperature Cycling	-40°C ~ + 85°C (42 cycles)	< 0.20
Humidity Cycling	75°C , RH 95% / 336 hrs	< 0.20
Vibration	10 ~ 55Hz (3Axis)	< 0.20
Impact	1.5m drop, 8 times	< 0.20

Optical Fiber Attenuator | Variable Optical Fiber Attenuator



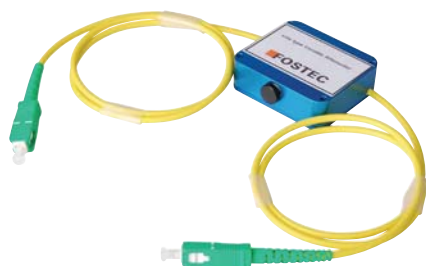
Plug Type Fixed Attenuators



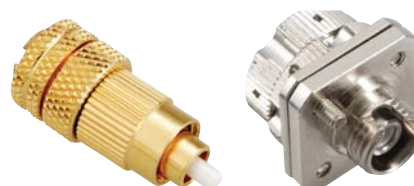
Line Type Fixed Attenuator

Specification

Parameter	Condition	Value [dB]		
		Min	Typical	Max
Attenuation			1 ~ 10	
			15, 20	
Return Loss	SPC	> 40	> 45	
	UPC	> 50	> 55	
	APC	> 60	> 65	
Attenuation Accuracy	1 ~ 10		±0.5	
	15 ~ 20		±1.0	
Operating Wavelength [nm]		1310 and 1550		
Operating Temperature		-40°C ~ +85°C		
Humidity		75°C, RH 95%		



Line Type Variable Attenuator

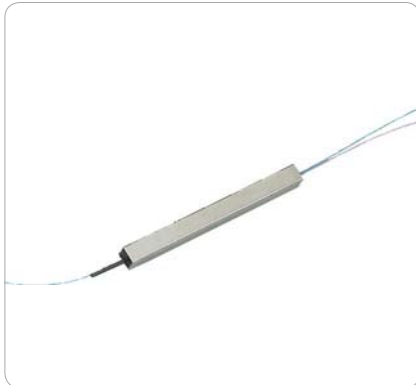


Plug & Bulkhead Variable Attenuator

Specification

Parameter	Plug Type	Bulkhead Type	Line Type
Connector Type	FC	FC	SC, FC, ST, LC, MU
Attenuation Variable Range [dB]	0~30		
Minimum Attenuation Value [dB]	1.0		
Return loss [dB]	> 50		
Resolution [dB]	1.0		
Operation Temperature	-40°C - +85°C		

PLC Splitter



1x N Bare fiber PLC splitter



1x N 0.9mm PLC splitter



1x N 2.0mm PLC splitter



LGX Rack mount



1x N cassette(LGX) PLC splitter



1x N Rack mount PLC splitter

Applications

- FTTx
- LAN, WAN and Metro networks
- Analog / Digital Passive Optical Networks
- CATV Networks
- Other applications in fiber optic systems

Features & Benefits

- Compact design
- Low insertion loss and low PDL
- High reliability
- High channel counts
- Wide wavelength range
- Wide operating temperature range
- Customized packaging and configuration

PLC Splitter

Specification

Parameter	N x 4	N x 8	N x 16	N x 32
Fiber	SMF			
Operating Wavelength [nm]	1260 ~ 1620			
Insertion Loss [dB]	≤ 7.4	≤10.7	≤13.9	≤17.5
Uniformity [dB]	≤0.5	≤0.8	≤1.3	≤1.5
Polarization Dependent Loss [dB]	0.2	0.2	0.3	0.3
Return Loss [dB]	> 50			
Directivity [dB]	> 55			
Operating Temperature	-40°C ~ +85°C			
Storage Temperature	-40°C ~ +85°C			
Dimensions [L x W x H] [mm]	40 x 4 x 4		55 x 7 x 4	

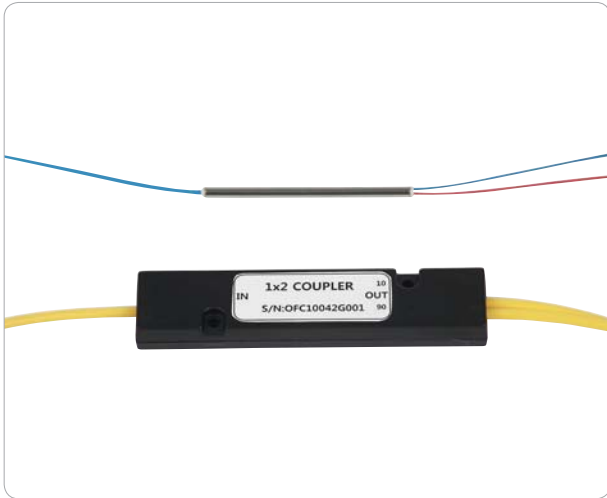
* Note : All measurement were tested at room temperature without connectors.

Ordering Information

PLCS

PLC Splitter	Configuration	Input Fiber Type	Input Connector Type	Output Fiber Type	Output Connector Type	Packaging Type	Cable Length in/Out [m]
	Nx2	B: 250μm Bare Fiber	0 : None	B : Ribbon Fiber	0 : None	S: Sus	N / N
	Nx4	L: 900μm Loose Tube	1: SC / UPC	L : 900μm Loose Tube	1: SC / UPC	F: Fanout	
	Nx8	Other	2: FC / UPC	Other	2: FC / UPC	C: Case	
	Nx16		3: LC / UPC		3: LC / UPC	R: Rack	
	Nx32		4: SC / APC		4: SC / APC	T: CASSETTE	
	Nx64		5: FC / APC		5: FC / APC		
			Other		Other		

Optical Fiber Coupler



Specification

Parameter(N=1.2)	N X 2		N X 4		N X 8		N X 16		N=32	
Operating Wavelength [nm]	1310 / 1490 or 1550									
Operating bandwidth [nm]	±40 or ±20									
Grade	P	A	P	A	P	A	P	A	P	A
Insertion Loss [dB]	≤3.4	≤3.7	≤7.4	≤7.6	≤10.8	≤11.4	≤14.4	≤15.2	≤18.0	≤19.0
Directivity [dB]	> 55									
Operating Temperature	-40°C - +85°C									
Dimensions [L x W x H] [mm]	85 x 17.5 x 10		100 x 80 x 10				141 x 115 x 18			

* Note : All measurement were tested at room temperature without connectors.

Ordering Information

OCM

Optic Coupler Mouldle	Configuration	Input Fiber Type	Input Connector Type	Output Fiber Type	Output Connector Type	Packaging Type	Cable Length in/Out [m]
	Nx2	B: 250μm Bare Fiber	0 : None	B: 250μm Bare Fiber	0 : None	S: Sus	N / N
	Nx4	Ø 0.9	1: SC / UPC	Ø 0.9	1: SC / UPC	C: Case	
	Nx8	Ø 2.0	2: FC / UPC	Ø 2.0	2: FC / UPC	R: Rack	
	Nx16	Ø 3.0	3: LC / UPC	Ø 3.0	3: LC / UPC	T: CASSETTE	
		Other	4: SC / APC	Other	4: SC / APC		
			5: FC / APC		5: FC / APC		
			Other		Other		

CWDM



Specification

Parameter		4 Channel		8 Channel		16 Channel	
		Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength (nm)		1270~1610/1271~1611					
Center wavelength Accuracy (nm)		±0.5					
Channel Spacing (nm)		20					
Channel Passband (@-0.5dB bandwidth (nm)		+/-7.5/+/-6.5					
Insertion Loss (dB)		≤1.7		≤2.5		≤3.5	
Channel Uniformity (dB)		≤0.6		≤1.0		≤1.5	
Channel Ripple (dB)		0.3					
Isolation (dB)	Adjacent	>30					
	Non-adjacent	>40					
Isolation (dB)	Express with filter	>30					
	Express without filter	>12					
Insertion Loss Temperature Sensitivity (dB/°C)		<0.005					
Wavelength Temperature Shifting (nm/°C)		<0.002					
Polarization Dependent Loss (dB)		<0.1					
Polarization Mode Dispersion		<0.1					
Directivity (dB)		>50					
Return Loss(dB)		>45					
Maximum Power Handling (mW)		300					
Operating Temperature (°C)		-40~+85					
Storage Temperature (°C)		-40~+85					

Ordering Information

CWDM							
Optical Fiber CWDM	Channel	Wavelength [nm]	Configuration	Cable Type	Cable Length [m]	In/Out Connector Type	
	4 : 4 Channel	1310	M : Mux	B : 250 μ m Bare Fiber	N	0 : None	
	8 : 8 Channel	1470	D: Demux	L : 900 μ m loose Tube		1 : SC/UPC	
	12 : 12 Channel	1490		Ø 2.0		2 : FC/UPC	
	16 : 16 Channel	1550		Ø 3.0		3 : LC/UPC	
	N : N Channel	1620				4 : SC/APC	
		Other				5 : FC/APC	
						Other	

DWDM

Specification

Parameter		4 Channel		8 Channel		16 Channel	
		Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength (nm)		ITU 100GHz Grid or ITU 200GHz Grad					
Center wavelength Accuracy (nm)		±0.1					
Channel Spacing (nm)		100 or 200					
Channel Passband (@-0.5dB bandwidth (nm)		>0.25					
Insertion Loss (dB)		≤1.8		≤3.0		≤6. 0	
Channel Ripple (dB)		0.3					
Channel Ripple (dB)		N/A	>30	N/A	>30	N/A	>30
Isolation (dB)	Adjacent	N/A	>40	N/A	>40	N/A	>40
	Non-adjacent	<0.005					
Insertion Loss Temperature Sensitivity (dB/°C)		<0.002					
Wavelength Temperature Shifting (nm/°C)		<0.1		<0.1		<0.15	
Polarization Dependent Loss (dB)		<0.1					
Polarization Mode Dispersion		<0.1					
Directivity (dB)		>50					
Return Loss (dB)		>45					
Maximum Power Handling (mW)		300					
Operating Temperature (°C)		-5~+75					
Storage Temperature (°C)		-40~85					
Package dimension [Lx W x H](mm)		100 x 80 x 10				140 x 115 x 18	

Ordering Information

DWDM								
DWDM	Channel spacing	Number of channels	Configuration	1 st channel	Fiber Type	Fiber Length	IN/OUT Connector	
	1=100GHz	04=4 Channel	M=Mux	21=Ch21	1=Bare fiber	1=1m	0=None	
	2=200GHz	08=8 Channel	D=Demux	34=Ch34	2=900um loose tube	2=2m	1=FC/APC	
		16=16 Channel		50=Ch50	3=2mm Cable	S=Specify	2=FC/PC	
					4=3mm Cable		3=SC/APC	
							4=SC/PC	
							5=ST	
							6=LC	
							S=Specify	

Optical Fiber Patch Cord (HDMI)



Applications

- Home Theater
- Conference Room
- Auditorium
- Blue-ray, 3D video, Projector, Set-top box, DVR, Game Consoles and Computer
- Panel Information Displays for Airports, Stadiums and Outdoor Advertising
- Security Systems
- LED Sign Boards
- Medical Imaging Equipment Display

Features

- Up to 150m Maximum Cable Length
- HDMI Maximum 3.4Gbps/channel
- Plug and Play
- Hybrid optical cable with fiber and copper wire
- Ultra-small Bending Radius

Specification

Item	Description
HDCP Compliance DDC Communication	HDCP 1.1 fully support bi-directional EDID and HDCP communication
HDMI Level	HDMI high speed, Not Ethernet
Supported Resolution & Distance	PC: WUXGA 1920 x 1200 up to 150 meters HDTV : 480p, 720p, 1080i and 1080p deep color, 4K2K, 3D Full HD 1920 x 1080 up to 150 meters
Optical Converter	4 channel 850 nm VCSEL and PIN-PD array
Connector Type	HDMI type A
Cable Type	Hybrid type with optical fiber and copper wire Optical fiber : 50/125 μ m 4C ribbon multi-mode glass fiber (OM2 grade) Copper wire : AWG 28 * 6C + AWG 24 * 1C
Cable Diameter	5.7 * 3.6 mm $\pm$ 0.3 mm
Cable Type	PVC(CL3)
Minimum Cable Bending Radius	57 mm
Tensile Strength	200 N
Cable Length	15~150m (with 0~+100cm tolerance), custom length available upon request

Expanded Beam connectors



D38999 Bulkhead D Hole Mount



D38999 Plug



D38999 Plug & Receptacle



Expanded Senior



Expanded Junior



Expanded Mini

Applications

- Navy shipboard, surface craft and submarines
- Mission critical combat and communications systems
- Mobile tactical shelters electronic battlefield networks
- Mobile Emergency Telecommunications (MET) stations
- Deployable outdoors in harsh environments

Features & Benefits

- Precision machined to MIL-PRF-28876, Rev. E specification
- Available in 5 shell sizes: 11(4ch), 13 (4 ch), 15 (6, 8 ch), 17(2,4,8,12,16ch), 23 (18, 31 ch)
- Six keying options (plus universal keying for COTS product) for both plugs and receptacles
- Inserts are interchangeable from plug to receptacle. Either can be operated with pins or socket terminal
- Fully intermediate with all qualified M28876 connectors
- Operates with all qualified single mode or multimode M29504/14 and /15 terminal
- Complete line of straight, 45 degree and 90 degree back shells COTS version available

Expanded Beam connectors

Specification

D38999 Expanded Beam Connector

Insertion Loss	9/125 Fiber at 1310nm / 1550nm: 1 to 4 channels: -1.5dB max / 6 to 16 channels: -2.0dB max*						
	50/125 Fiber at 850nm / 1300nm: 1 to 4 channels: -1.0dB max / 6 to 16 channels: -1.5dB max*						
Return Loss	>32dB (typical 40dB) singlemode / >20dB multimode*						
Durability	1000 Matings minimum						
Operating Temperature	-40°C to +85°C						
Storage Temperature	-55°C to +85°C						
Water Immersion	IP67						
Free Fall Resistance	350 Falls from 1.2m height						
Vibration	10-500Hz, 3 directions, 0.75mm amplitude @ 10g acceleration						
Bump	4000 bumps @ 40g acceleration						
Corrosion Resistance	350 Hours Salt Spray						
Cable Retention	1000N (Cable Dependant)						
Weight (approx)		Aluminum		Stainless Steel		Nickel Aluminum Bronze	
		Size 11	Size 15	Size 11	Size 15	Size 11	Size 15
	Plug:	50g	90g	95g	170g	95g	170g
	Bulkhead	45g	85g	85g	155g	85g	155g
Connector Shell Material / Color	Aluminum Alloy (Zinc Cobalt, Olive Drab), Aluminum Alloy (electroless Nickel plated), nickel Aluminum Bronze (shot blast, non-reflective) or Stainless Steel (passivated)						

MIL-DTL-83526 Expanded Beam Connector

Insertion Loss	Singlemode	-2.5dB (typical -1.5dB)*
	Multimode	-2.0dB (typical 1.0dB)*
Return Loss	≥ 35dB (typical 40dB) singlemode	
Durability	3000 Matings minimum	
Operating Temperature	-46°C to +71°C	
Storage Temperature	-57°C to +85°C	
Water Immersion	15m for 24 hours (Plug & Bulkhead; mated & open-face)	
Free Fall Resistance	500 Falls from 1.2m height	
Vibration / Shock	As per MIL-DTL-83526/20/21	
Crush Resistance	6.7kN	
Corrosion Resistance	500 Hours Salt Spray	
Cable Retention	1800N (Cable Dependant)	
Weight (approx)	Plug: 120g Bulkhead: 110g	
Connector Shell Material / Color	Aluminum, Plug: black anodised Bulkhead: zinc cobalt Grip & boot: black	

*Performance is dependent on assembly & termination; figures relate to CCS terminated harnesses.

Expanded Beam connectors

Ordering Information

FOBEX EB-A-B-C-D-E-F-G-H-I-J

A : END A-Connector family

- 311 - 38999 Shell size 11
- 313 - 38999 Shell size 13
- 315 - 38999 Shell size 15
- 317 - 38999 Shell size 17
- 325 - 38999 Shell size 25
- S – Senior (D83526)
- J – Junior (D83526)
- M – Mini (D83526)

B : END A Connector Type

- P - Plug (straight backshell)
- P90 - Plug (90 degree backshell)
- PS - Plug SQ-Flange
- BS - Bulkhead SQ-Flange Mount (straight backshell)
- BD - Bulkhead D Hole Mount (straight backshell)
- BD90 - Bulkhead D-Hole Mount (90 degree backshell)
- BI - Bulkhead In-Line

C :END A Connector Shell Material

- A - Aluminium, Zinc Cobalt, Olive Drab
- S - Stainless Steel, Passivated
- W Olive drab cadmium over electroless

D : Number of Fiber

- 1 - 1 Optical Channel (Shell size 11, 13, 15)
- 2 - 2 Optical Channel (Shell size 11, 13, 15)
- 4 - 4 Optical Channel (Shell size 11, 13, 15)
- 6 - 6 Optical Channel (Shell size 11, 13, 15)
- 8 - 8 Optical Channel (Shell size 15)
- 12-12 Optical Channel(Shell size 15)

E : Number of Electrical contacts

- 0 - No electrical contacts
- 2 - 2 Electrical contacts
- 4 - 4 Electrical contacts

F : Fiber Type

- 09 – Single mode(9/125_
- 50 – Multi mode(50/125)
- 60 – Multi mode(62.5/125)
- OM3 - Multi mode(50/125)

G : Wavelength of Operation

- A – 850/1300nm
- B – 1310/1550nm
- C – 1310nm Only
- D - 1550nm Only

H : Cable Type

- MT – MIL-TAC
- SZ – Standard Zipcord(2x2.8)(up to 4ch)
- MZ- Mini Zipcord(2x1.8)(6ch,8ch,12ch)

I : END B- Connector Type

- A – Same as End A
- SC – SC Type connector
- ST – ST Type connector
- LC - LC Type connector

J : Length (meter)

- Example: 250=250m / 2M5 = 2.5m

Expanded Beam connectors



FOBEX- P(Receptacle)



FOBEX-P(Plug)

Expanded Beam connectors

FOBEX-P is a single expanded beam terminus that enables upgrades from optical physical contact technology to optical contactless technology. FOBEXP fiber optic terminus is expanded-beam optical transmission system. It delivers outstanding performance in challenging environments and eliminates maintenance cycles. The low insertion loss FOBEX-P offers comparable performance to standard butt joint terminus in a package that's built to withstand rugged use and frequent mating/de-mating in field conditions.

Features

- Expanded Beam technology
- Highly resistant to dirt and debris
- No degradation of the optical face
- Simple cleaning
- Low maintenance
- Compatibility: Cavity #16
 - MIL-DTL-38999series III
- Easy installation with standard tools
 - Possibility to mix with Electrical contact for Hybrid solution



Expanded Beam Connector to LC

Features

- Adapter for converting Expanded Beam connector to LC type
- Expanded Beam Type : 38999
- Shell Size : 17 Size
- Available in single mode and multimode versions



Expanded Beam Optical + Electrical

Features

- Expanded Beam Type : 38999
- Shell Size : 25 Size
- Available in single mode and multimode versions
- Fiber Optic : 4 ch
- Electric : 8AWG 3 ch
- Waterproof

Military & Aerospace (MIL-DTL-38999)



Applications

- Military/Aerospace
- Train
- Automotive
- Computer/Consumer
- Industrial/Instrumentation
- Oil Fields
- Telecom/Handset
- Transportation

MIL-DTL-38999 Part Number Development Series III

Mil. Prefix D38999 20

Shell Type (Specification Sheet Number)

20 = Wall mount receptacle, 24 = Jam nut receptacle
26 = Self-locking, RFI grounding plug

Class (Material & Finish)

F = Aluminum shell, electroless nickel finish
W = Aluminum shell, olive drab cadmium over electroless nickel base

Shell Size

A=9, B=11, C=13, D=15, E=17, F=19, G=21, H=23, J=25

Insert Arrangement

1~ N

Contact Style

P = Pin, S = Socket, A = Pin connector less pins (with intent to use non-std pin contacts)
B = Socket connector less sockets (with intent to use non-std socket contacts)

Polarization (Keying)

N = Normal (Included in part number), A, B, C, D, or E

Fiber Optic Terminus(Standard : MIL-PRF-29504/4D)



Size 16 Fiber Optic Pin Terminus



Size 16 Fiber Optic Socket Terminus

Part Number	Fiber Size Core / Cladding*	A Dia(μm)	Reference
F1000-513SMPI	9/125 (Single Mode)	125	M29504/4-4207
F1000-517SMPI		125.5	M29504/4-4208

Part Number	Fiber Size Core / Cladding*	A Dia(μm)	Reference
F1000-513SMSO	9/125 (Single Mode)	125	M29504/5-4236
F1000-517SMSO		125.5	M29504/5-4237

Military & Aerospace (Military Optical Fiber Cable Rewinder)



MOFC-R

Applications

- Rewind or withdraw of cable in the field
- Essential equipment to quickly rewind to a circle when using cables

Specification

Product Name	Height	Depth	Width	Weight	Material
Military field cable reel winder	700mm	Max 750mm	Max 550mm	<15kg	steel

Length	Unused		Used	
	Time	Required Person	Time	Required Person
100m	30 minutes	2	7 minutes	1
200m	60 minutes		15 minutes	
300m	90 minutes		20 minutes	

Military & Aerospace (Military Optical Field Splicer)



MOFS-1(only fiber optic)

Applications

- Renovation
- Telecommunication networks

Specification

Operating Temperature	-40°C to +85°C
Water resistance	IP68
Tensile load	1000 N
Bending Radius	75mm
Size	Max 300mm length
Splicing Capacity	4C

Test & Equipment

Expanded Beam Measurement (FOBEX-M)



Description

The FOBEX-M ruggedized optical test set is designed for testing of optical networks terminated with 38999 military connectors operating in harsh environment. It combines both light source and optical power meter in one common box. The test set is designed to meet the tactical military, and broadcast industry demand. The ruggedized aluminium case makes the unit ideal for field operation.

Applications

- 38999 type Expanded Beam connector testing
- Optical network measurement Fiber continuity testing

Features

- Expanded Beam and ferrule technology harsh environmental connectors
- Ruggedized aluminium case
- Multimode (MM) or singlemode (SM) applications
- Simultaneous testing of all 2/4 fibers
- Displayed units: dBm, dB
- High dynamic range
- Built-in charger, battery status indicator

Specification

Dimensions	(120mm W) x (230mm H) x (70mm D)
Weight	2.8 lb./1.3 kg.
Laser Source Output Power Stability	LD 1310, 1550nm or 850, 1300nm - 8dBm ± 0.05dB
Optical Power meter Optical Insertion Loss meter Dynamic Range Accuracy	+5dBm ~ - 50dBm ± 0.5dB @ - 23dBm
Power Source	DC 5V, Micro USB Port
Working Time	Continuous Working Time > 20hrs
Charging Time	14hrs

Test & Equipment (Power Meter)



Multi-functional fiber optic power meter designed for the installation, construction and maintenance of fiber optic networks. Ideal For Use In Fiber Optic Telecommunications and Data Networks. Capable of accurately measuring power in wavelengths of 850, 1300, 1310, 1490, 1550 & 1625nm

Part No: FOPM001

Applications

- Telecom Maintenance
- CATV Maintenance
- Fiber Optic lab testing
- Other Fiber Optic Measurements

Features & Benefits

- Wide dynamic measurement range (up to 80dB)
- Reference power level storage(Ref Setting)
- User self-calibration function
- Comfortable LCD display and backlight LCD display supports night operation.
- Power measurements in dBm or mw and insertion loss in dB
- 10 minutes Auto-off function can be activated or deactivated.
- AA alkaline batteries can last more than 140 hours, AC adaptor also available
- Low battery indication

Specification

Wavelength(nm)	800~1700nm
Detector Type	InGaAs
Detector Size	Ø 1.0mm
Measurement Range(dBm)	-70 ~ +10
Uncertainty	± 5%
Calibrated Wavelength(nm)	850, 1300, 1310, 1490, 1550, 1625
Resolution(dB)	0.01
Optical Connector	FC(interchangeable SC, ST) / as well as 2.5mm universal
Power Supply	Alkaline Battery(3 AA 1.5V batteries); AC Adaptor(9V)
Battery Operating Time	140 h with 1.5V Battery(3pcs)
Operating Temperature(°C)	-10 ~ +60
Storage Temperature(°C)	-25 ~ +70
Relative Humidity	0 to 95% (non-condensing)
Dimension(mm)	190x100x50
Weight(g)	370

Test & Equipment (Light Source)



Provides 1~6 wavelengths output which can be optional according to customers' needs

1310/1550nm wavelengths for single mode fiber or the 850/1300nm wavelengths for multimode fiber.

Features an ultra-bright backlight LCD, Universal Adaptors, High visibility rugged case, protective belt pouch and handy carry strap

Perfect for any fiber optic test environment.

Part No: FOLS001

Applications

- Telecom Maintenance
- CATV Maintenance
- Fiber Optic lab testing
- Other Fiber Optic Measurements

Features & Benefits

- Provides 1~6 wavelengths output which can be optional according to customers' needs
- CW 2Hz modulation output at 650nm, and CW, 270Hz, 1KHz, 2KHz modulation output at other wavelengths.
- High stability of the output power
- Stable output wavelength
- Backlight LCD display supports night operation
- Low battery power indication

Specification

Wavelength(nm)	Provides 1~6 Wavelengths according to needs.
Emitter Type	FP-LD, LED
Typical Output Power (dBm)	0@650nm / -7@1310nm, 1550nm, -20dBm for LED
Spectral Width(nm)	≤10
Output Stability	± 0.05dB / 15 mins; ± 0.1dB / 8hours
Modulation Frequencies	CW, 2Hz / CW, 270Hz, 1KHz, 2KHz
Optical Connector	FC/PC (Other type adaptors can be required)
Power Supply	Alkaline Battery (3 AA 1.5V batteries); AC Adaptor (9V)
Battery Operating Time (hour)	45
Operating Temperature (°C)	-10 ~ +60
Storage Temperature (°C)	-25 ~ +70
Dimension (mm)	190x100x50
Weight (g)	370

Test & Equipment

Optical Time-domain Reflectometer (OTDR)



OT5000 OTDR



OT5000-MCI Test Handle

Applications

- Optical network installation and troubleshooting
- Backbone optical network
- WAN, access network and LAN fiber test

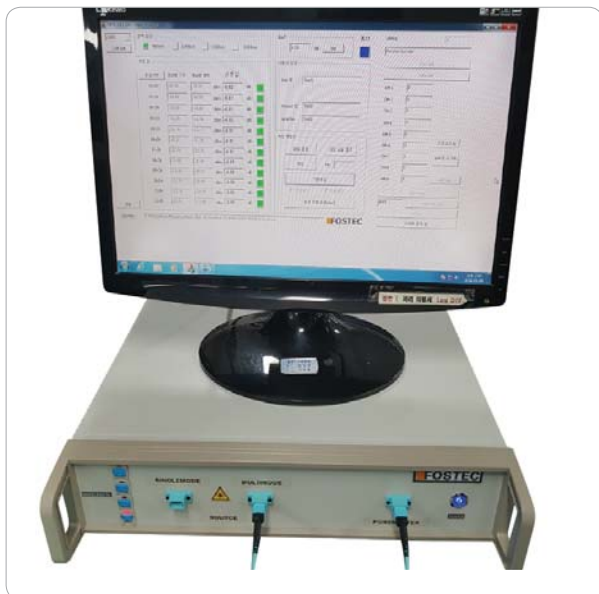
Features & Benefits

- Quick startup
- FTTX in-service testing (Up to 1:64 splitter)
- Built-in PON power meter for Triple-play testing
- High configuration series include optical light source, optical power meter, visual fault locator (VFL) and Optical Connector Inspector (MCI) modules
- USB data interface (PC software for batch data processing and report output)
- Dustproof and shockproof (2-meter drop test)
- Light weight, small size, rugged design and simple operation
- Visual link image software (Optional)

Specification

Parameter	Specification			
General Configuration	Wavelength (±20nm)	Dynamic Range (dB)	Event Dead Zone (m)	Attenuation Dead Zone (m)
OT5000-MA	850/1300	21/24	1.5	5
OT5000-S2A	1310/1550	32/30	1.8	5
OT5000-S2C	1310/1550	40/38	0.8	4.5

Test & Equipment (Multichannel IL measurement System_MPO/MTP)



Applications

- Multi-Fiber optical Connector (MPO/MTP)
- Optical Module (AWG, VOA, Splitter, Fiber array, Etc)
- Optical System
- Single-Fiber Optical Connector (FC/SC/LC)

Features & Benefits

- FMMS-012 is Insertion Loss test system for optical module
- Quick measurement time (MPO connector (12ch) is less than 2sec.)
- SM. MM test Available (1550nm, 1310nm, 1300nm, 850nm)
- Simple software for user
 - ✓ Real time data monitoring
 - ✓ Automatic test and data save

Specification

Operating Wavelength	1550nm, 1310nm, 1300nm, 850nm
Fiber Type	9/125um SM Fiber (1550/1310nm) 50/125MM Fiber(1300/8580nm)
Optical connector type	MPO/MTP
Typical Output Power(dBm)	-7@1550nm, 1310nm, -22dBm for LED
Detector type	InGaAs
Measure Mode	GUI
Resolution(dB)	0.1
Calibrated Wavelength[nm]	850, 1300, 1310, 1550
Power Supply	AC 220V
Operating Temperature(°C)	-10 ~ +60
Storage Temperature(°C)	-25 ~ +70
Dimension(mm)	435X88.1X360
Weight(Kg)	5

Fusion splicer



Part No: FS-17S

Features

- Precise fiber core alignment, ultra-low fiber fusion splicing consumption
- 7s fast fusion splicing, 18s highly efficient heating
- 320 times image magnification, 5mm fusion splicing for fibers of ultra-short cutting length
- 300 groups of fusion splicing modes, 100 groups of heating modes
- 10000 groups of fusion records, 64 images storage
- Ceramic presser foot, ceramic V-block, all-in-one fixture
- Dual-direction splicing, automatic splicing, intelligent pyrocondensation
- USB and SD card interfaces, U-disk automatic software upgrade
- Built-in modular lithium battery, supports 220 times of splicing and heating cycles.

Small and Light:

- Small in size and light in weight, the splicer is easy to carry and can be lift by one hand.

Water-resistant, dust-resistant and shock-resistant in design:

- Water-resistant and dust-resistant can meet IP52 requirements.
The all-in-one fixture meet fusion splicing demands of multiple fibers, jumpers and rubber-insulated wires with a cladding diameter of 80-150um.

Graphical interfaces and touch screen:

- FS-17S uses entirely new GUI graphical interfaces and touch screen in design.
Operators can set up the splicer and get to know relevant information of it simply and directly by graphical interfaces.

Specification

Model	FS-17S
Alignment method	Precise core alignment and cladding alignment
Applicable fibers	Any common optical fibers, rubber-insulated fibers and jumpers that meet requirements of ITU-TG. 651 -653, ITU-TG. 655 and ITU-TG. 657.
Optical fiber diameter	Cladding : 80-150um. Coating layer : 0.1-3mm
Cutting length	5-16mm (coated optical fiber diameter ≤250um) : 10mm (coated optical fiber diameter : 0.25-3mm)
Fusion splicing consumption(typical value)	0.02dB(SMF) : 0.01dB(MMF): 0.04dB(DSF)
Return loss	(NZDSF) Better than 60dB
Fusion splicing time(typical value)	7s
Heating time (typical value)	18s
Pulling force test	1.96-2.25N
Thermal shrinkage tube	60mm : 40mm and a series of thermal shrinkage tubes
Graphical display	High-performance 4.3inch LCD
External power	AC: AC 100-240V, 60Hz. 0-1.5A: DC: DC 10-15V
Dimensions Weight	120mm(W) x 130mm(H) x 154mm(D) (without rubber anti-vibration pad) 1.59KG(host engine) 0.37KG(battery)

OTDR Launch Box

Designed to aid in the testing of fiber optic cable when using an OTDR. The OTDR Launch box is used with Optical Time Domain Reflectometers (OTDR's) to help minimize the effects of the OTDR's launch pulse on measurement uncertainty. Available in many different configurations and fiber lengths.



Applications

- Pulse Suppressor, Launch Box, Delay Line, Installation/Testing, Training, Calibration
- Nonmetal construction will not dent, corrode, or conduct electricity
- Water and dust prove allowing the unit to be taken into almost any environment
- Case can house up to 2,000 meters of fiber
- Auto Purge Valve for changes in altitude and temperature

Specification

Length x Width x Height (cm)	23.80 x 14.12 x 6.65
Material	SR Polypropylene
Color	Black / Yellow
Weight	0.75kg(without fi)
Operating temperature	-40 to +55°C
Typical Loss	<1dB@ 1310nm for 1000 meters

Inspection Micro Scope Tool Kit



This product is a portable, video microscope used to inspect all kinds of fiber optic terminations, especially for the female ones. It eliminates the need to access the backside of patch panels or disassemble hardware devices prior to inspection. 3.5" TFT 220k Pixels LCD, 250 magnification, USB output, data stored.

Specification

Length x Width x Height (cm)	29.40 x 4.32 x 17.78
Weight	0.3 lb./0.14 kg
Camera Type	0.33inch CCD
Video Output	PAL/NTSC USB2.0
Light Source	Blue LED, 100,000+ hrs life

LCD Display

Dimensions	(3.7" ± W) x (4.17" ± H) x (1.37" ± D)
Weight	0.92 lb./0.42 kg.
Video Display	3.5" ±TFT Active Matri x 2.2 million pixels
Power Source	Input AC, Output 110-240 V DC, 12.6V
Working Time	Continuous Working Time >8 hrs
Charging Time	4hrs

Fiber Optic Tool Kit (MOFC-T)



Test Equipment and Options

- Pocket Fault Locator
- Power Meters
- Light Sources
- Mini OTDR
- Fiber Cleaver

PARTS LIST

Item No.	Part Description	Quantity
* 1	Flexible Cable Splice Protector	1
2	Crimp Tool	1
3	Task wipers	1
4	Kevlar Scissor	1
5	Jacket Stripper	1
6	Fiber Stripper	1
7	Alcohol Dispenser	1
8	Pen	1
9	Side Cutting Pliers	1

* The FOSTEC Flexible Cable Splice Protector is an ideal solution for protecting fiber optic splices in challenging field conditions. This rugged, easy-to-install splice protector accommodates up to 4 splices with mini or micro protection sleeves, protecting them from moisture, vibration, shock and other adverse environmental conditions.

Fiber OpticTool



LASER FAULT LOCATOR



LASER FAULT LOCATOR



FIBER CLEAVER (SN : FOC-002)



FIBER CLEAVER (HIGH PRECISION)



FIBER STRIPPER (SN : CFS-2)



FIBER STRIPPER (SN : FJS001, FJS002)



THERMAL STRIPPER(SN:FTS001)



(P/N : LC = 1TL01PE-12-002 / SC = 1TL01PE-25-002)/Mil=1TL01PE-16-001

PEN CLEANER(ONE-CLICK CLEANER)

Media Converter



Features & Benefits

- Link loss carry forward (LLCF) & link loss return (LLR)
- MDI to MDIX auto negotiation (A/N)
- Easy system configuration by DIP
- A/N or manual 10/100M and HDX/FDX selection
- F/O segment extension up to 2Km (MM) and 120Km (SM)
- Easy installation and maintenance
- Status monitoring by front LED display
- STP/UTP cabling support
- Far-end-fault detection

Specification

Parameter	Value
Standard	IEEE 802.3ab 1000Base-TX
	IEEE 802.3z 1000Base-SX/LX
Connector	UTP/STP: RJ-45
	OPTIC: SC type (ST/LC/MT-RJ → Optional)
Transmission Distance	UTP/STP: 100meters (Cat. 5)
	OPTIC: Multi mode: up to ~ 2km, Single mode: up to ~ 120km
Auto-negotiation	MDI/MDIX (Media Dependant Interface /Cross)
	10/100Mbps, Half/Full Duplex
Transmission Speed	100Mbps & 1000Mbps
Duplex Mode	Full / Half-Duplex
Display	FEF. SPD. FXL. TXL. FDX, PWR
Input Power	AC110/220V(50/60Hz), DC 24V/-48V(Optional)
Environmental Characteristic	Operating Temperature: 0°C ~ 70°C, Operating Humidity: 10% to 80% RH
Dimension (mm)	H×W×D (105×81×26.2)

Media Converter (Industrial Fiber Media Converter)



Features & Benefits

- Wide dynamic measurement range (up to 80dB)
- Reference power level storage(Ref Setting)
- User self-calibration function
- Comfortable LCD display and backlight LCD display supports night operation.
- Power measurements in dBm or mw and insertion loss in dB
- 10 minutes Auto-off function can be activated or deactivated.
- AA alkaline batteries can last more than 140 hours, AC adaptor also available
- Low battery indication



Specification

Physical Characteristics

Housing: Aluminum Alloy material with IP40 Protection

Dimension: 138mm(L) X 112mm(W) X 60mm(H)

Weight: 670g

Installation: Din-Rail mounting, Wall mounting

Interfaces

4 RJ45 Ports: 10/100Base-T(X) auto negotiation

2 100Base-FX port (SC/ST/FC connectors optional)

Power

Input Voltage: 24V DC(18-36VDC) Redundant dual inputs

Input Current: <0.5A @24VDC

Overload Current Protection: Present

Reverse Polarity Protection: Present

Redundant Protection: Present

Environmental Limits

Operating Temperature: -40°C-85°C

Storage Temperature: -40°C-85°C

Ambient Relative Humidity: 5%-95% (non-condensing)

ODFs (Mini)



MOFD-4



MOFD-8



MODP-4



MODP-8

Applications

- Telecommunication networks
- Local Area Networks
- FTTH
- CATV networks
- Active device termination

Features & Benefits

- Low excess loss & high performance
- Retractable splicing trays
- Convenience and ease of handling
- Ideal for small spaces
- Light weight

Specification

Parameter		Unit	MOFD		MODP		
Fiber Capacity		Core	4	8	4	8	12
Dimension	Height	mm	38	40	30	35	35
	Width	mm	95	145	110	140	140
	Depth	mm	120	175	135	190	190
Material			ABS	ABS	Steel	Steel	Steel

Ordering Information

M

Mini
Optical Fiber
Distribution

Type

OFD

ODP

BOX-2

BOX-4

BOX-DP

Core

1 ~ 12

Adapter
Type

SC, FC, ST, LC

Other

Sleeve Type

Zr:
Zirconia
CeramicPB: Phosphorous
Bronze

ODFs (Rack mount)

OFD (Optical Fiber Distribution)



OFD-1 [12 / 24Core]



OFD-2 [12 / 24Core]



OFD-3 [12 / 24Core]



OFD-4 [48Core]



OFD-5 [144Core]



OFD-6 [288Core]

Applications

- Telecommunication networks
- Local Area Networks
- Data system networks
- CATV networks
- Active device termination

Features & Benefits

- Low excess loss & high performance
- Retractable splicing tray
- Convenience and ease of handling
- Compliant with rack system

Specification

[1U=44.45mm]

Parameter		Unit	OFD-1	OFD-2	OFD-3	OFD-4	OFD-5	OFD-6
Fiber Capacity		Core	≤24	≤24	≤24	≤48	≤144	≤288
Number of Tray		PCS	1	1	1 or 2	2	5	12
Dimension	Height		1U	1U	3U	5U	5U	9U
	Width	mm	482	482	482	482	482	482
	Depth	mm	305	305	305	305	305	305
Remark			Round	Draw	Round	Panel	Panel	Panel

ODFs

Ordering Information

OFD

Optical Fiber
Distribution

Fiber Type

SM
[Single-Mode]
MM
(Multi-Mode)

Core

1 ~288

Adapter Type

SC, FC, ST

LC, MU

Other

Sleeve Type

Zr:
Zirconia
Ceramic

PB: Phosphorous
Bronze

ODFs (Rack mount & Wall mount)

FDF [Fiber Distribution Frame]



FDF-1U [12 / 24Core]



FDF-2U [48Core]



FDF-3U [72Core]



FDF-Wall [24 / 48 / 72Core]

Specification

[1U=44.45mm]

Parameter		Unit	FDF-1U	FDF-2U	FDF-3U	FDF-4U	FDF-WALL
Fiber Capacity		Core	≤24	≤48	≤72	≤96	≤24 [max 72]
Number of Tray		PCS	1	2	3	4	2
Dimension	Height		1U	2U	3U	4U	305 mm
	Width	mm	482	482	482	482	305
	Depth	mm	305	305	305	305	95
Remark			Rack Mount				Wall Mount

Ordering Information

FDF

Fiber
Distribution
Frame

Type

R: Rack Mount

W: Wall Mount

Core

1 ~ 72

Adapter
Type

SC, FC, ST

LC, MTRJ

Other

Sleeve Type

Zr: Zirconia
CeramicPB: Phosphorous
Bronze

Optical Splice Closure (Line Type FOSC-F)



Applications

- Telecommunication networks
- Local Area Networks
- Data system networks
- CATV networks
- Active device termination

Features & Benefits

- Reliable moisture-tight housing with hot-melt type sealing
- Ribbed body structure protects against impact and compression
- Efficient fiber management by splice tray holding structure
- Ease of use for closure assembly
- Easy clamping of tension member and grounding
- Easy installation without bolt
- Aerial and underground use

Specification

Size (L x W x H)	435 x 205 x 113
Weight(kg)	2.8kg
Inlet Port	4
Cable Dia.	Ø3 ~ Ø20
No. of Splice Tray	4
Tray Capacity	24C (Max. 48C)
Splice Capacity	96C (Max. 192C)
Splice Method	Fusion, Mechanical, Connector
Splice Protector	Heat shrinkable sleeve, Mechanical Splice
Tention Member	Galvanized steel wire, FRP

Test Certification

Parameter	Test Condition	Requirement
Water resistance	• Put the closure into a 20ft depth- water tank for 7days	No evidence of water intrusion. Compliance with IP68 in accordance with Telcordia International standard
Temperature and Humidity	• Temp. cycle -40~65°C, RH 95% • 120Cycle (1cycle is 6 hours)	No mechanical impairment
UV Resistance	• Prepare 10 test bar • Expose UV lamp: 8 hours 65°C	No reduction tensile strength Greater than 20%
Chemical resistance	• Inner pressure: 6PSI • solution : pH2 HCL, NaOH, 10% IGEPAL • Submerge for 120hours into the solution.	No mechanical corrosion

Optical Splice Closure (Dome Type)



(FOSC-A)



(FOSC-V)

Specification

Parameter	Value	
	FOSC-A	FOSC-V
Size[mm]	530 x 160 x 180	577 x 211 x 174
Weight [Kg]	4.0	2.5
Inlet Port	8 [Oval.1]	6 [Oval.2]
Cable Dia. [mm]	Ø 4 ~ Ø 10	Ø 8 ~ Ø 24
No. of Tray	4	4
Tray Capacity	24C [Max. 48C]	24C [Max. 48C]
Splicing Capacity	96C [Max. 192C]	96C [Max. 192C]
Splicing Method	Fusion, Mechanical	Fusion, Mechanical
Splice Protector	Heat Shrinkable Sleeve, Mechanical Splice	Heat Shrinkable Sleeve, Mechanical Splice
Tension Member	Galvanized Steel wire, FRP wire	Galvanized Steel wire, FRP wire

Ordering Information

FOSC

Fiber Optical
Splice Closure

Closure Type

F : LINE

A : DOME

V : DOME

Size

S: Small

M: Middle

L: Large

Fiber

L: Loose
Tube FiberR: Ribbon
Fiber

S: Splitter

Fiber Count

12 ~288

Distribution Tap (Outdoor Waterproof Terminal Box)



Applications

- Widely used in FTTH Network.
- Telecommunication Networks
- CATV Networks
- Data communications Networks
- Local Area Networks

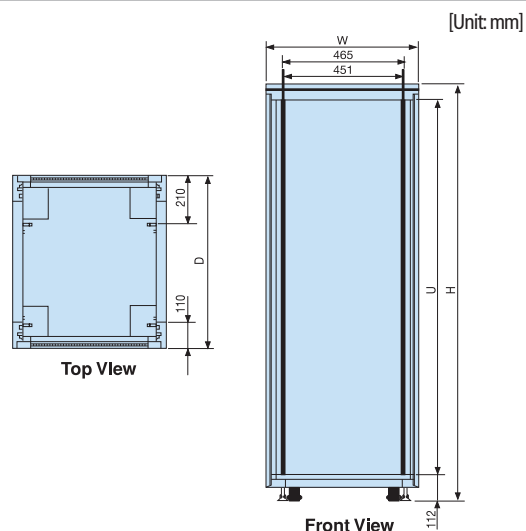
Features & Benefits

- Standard user interface, be made of high impact plastic
- Easy operation and maintenance
- Can accommodate 1×16, 1×8, 1×4 PLC splitter
- Anti-UV, Ultra Violet resistant and rainfall resistant
- Wall and pole mountable.
- 6 inlet ports, 16 outlet ports for ordinary cable or drop cable

Specification

Inlet port	Main 6 / Subscriber 16		
Cable Dia.[mm]	Ø3~Ø12		
Splice tray	2		
Tray capacity	12 (Max.24)		
Splice capacity	24 (48)		
No. of adapter	0	8	16
Splice method	Fusion / Mechanical		
Splice protector	Heat-shrinkable sleeve		
IP Grade	IP 67		

Rack System (Indoor)



Applications

- HDTV
- CATV networks
- Data system networks
- Telecommunication network
- Local area network

Features & Benefits

- Simple structure
- Strong and light weight
- Wide maintenance space
- Designed fitted with international standard (IEC 297-1.2.3)
- Material of front door is iron sheet, aluminium, tempered glass or etc

Specification

[1U=44.45mm]

Model	Height [mm]	Width	Depth [mm]
FOSTEC-2200	2,200 / 45(U)	600mm / 19" 650mm / 21" 700mm / 23"	750/900/1000
FOSTEC-2000	2,000 / 41(U)		
FOSTEC-1800	1,800 / 36(U)		
FOSTEC-1600	1,600 / 31(U)		
FOSTEC-1400	1,400 / 27(U)		
FOSTEC-1200	1,200 / 22(U)		
FOSTEC-1000	1,000 / 18(U)		
FOSTEC-750	750 / 12(U)		
FOSTEC-500	500 / 10(U)	550mm	500

Rack System (Outdoor)



Applications

- HDTV
- CATV networks
- Data system networks
- Telecommunication network
- Local area network

Features & Benefits

- Simple structure strong and light weight
- Protects the inside from the dust, temperature and humidity.
- Convenient in local environment

Specification

[1U=44.45mm]

Model	Standard Height [mm]	Width [mm]	Depth [mm]	Remark
FOSTEC-1800	1800	770	840	35U 19"-Width 600
FOSTEC-1600	1600	600	640	23U
FOSTEC-1200	1200	600	640	14U

Dimensions

[Unit: mm]

