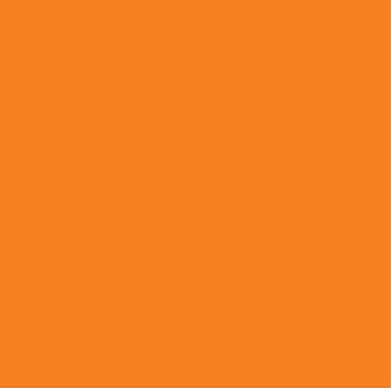




 **fibicon**
POLSKA
 **FOSTEC**



HARSH ENVIRONMENT SOLUTION

Unlimited possibilities to connect with light, opening up a new future

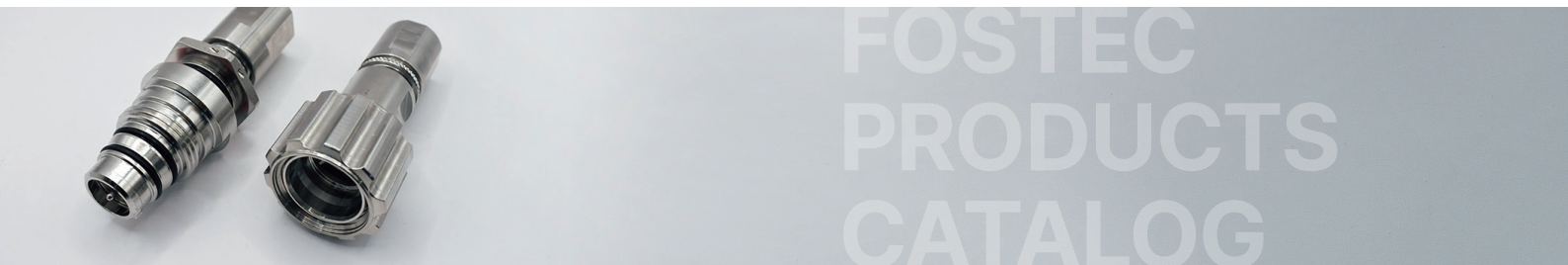
Company Overview

FOSTEC is an advanced optical connectivity technology company providing high-performance optical solutions to global industries. Since its establishment in 2001, the company has specialized in the design and manufacturing of optical components, connectors, and cable assemblies used in mission-critical environments such as defense, aerospace, and other demanding industrial sectors.

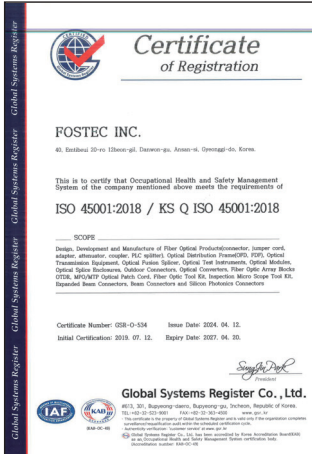
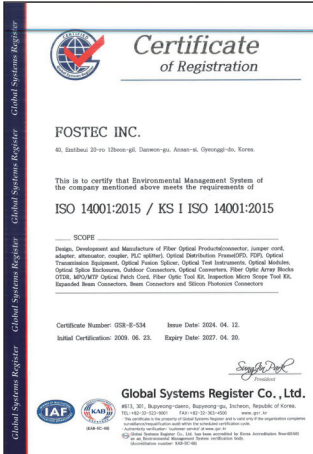
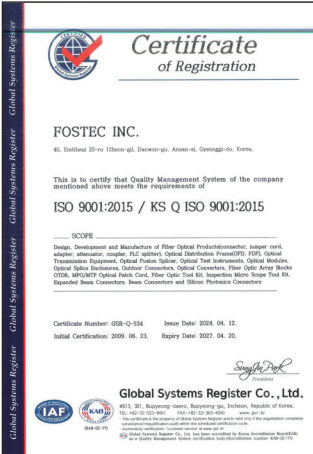
FOSTEC's core expertise includes expanded beam optical connectors and customized optical cable assemblies designed to perform reliably in harsh environments. Through continuous innovation and strict quality management, the company has obtained internationally recognized certifications including ISO 9001, AS9100, ISO 14001, and ISO 45001, ensuring high standards of product quality and reliability.

FOSTEC products are widely applied in major defense programs such as Cheongung II, TICN, KAMD, L-SAM, and C4ISR. In these tactical network systems, FOSTEC's expanded beam optical connectors play a key role in enabling reliable optical connectivity in demanding operational environments.

Through strong engineering expertise, reliable supply capability, and fast delivery performance, FOSTEC continues to strengthen its position as a trusted global partner in advanced optical connectivity solutions.



System Certification



FOSTEC Core Value

Respect

We respect customers and build trust.

Excellence

We improve quality through learning and innovation

Service

We provide fast and accurate service.

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Application

TICN

Military-grade fiber optic solutions support Tactical Information Communication Networks (TICN) in demanding field environments. Built to withstand shock, dust, vibration, and harsh weather, the connectors ensure reliable battlefield communication. Expanded beam design allows fast deployment and stable signal performance in mission-critical operations.



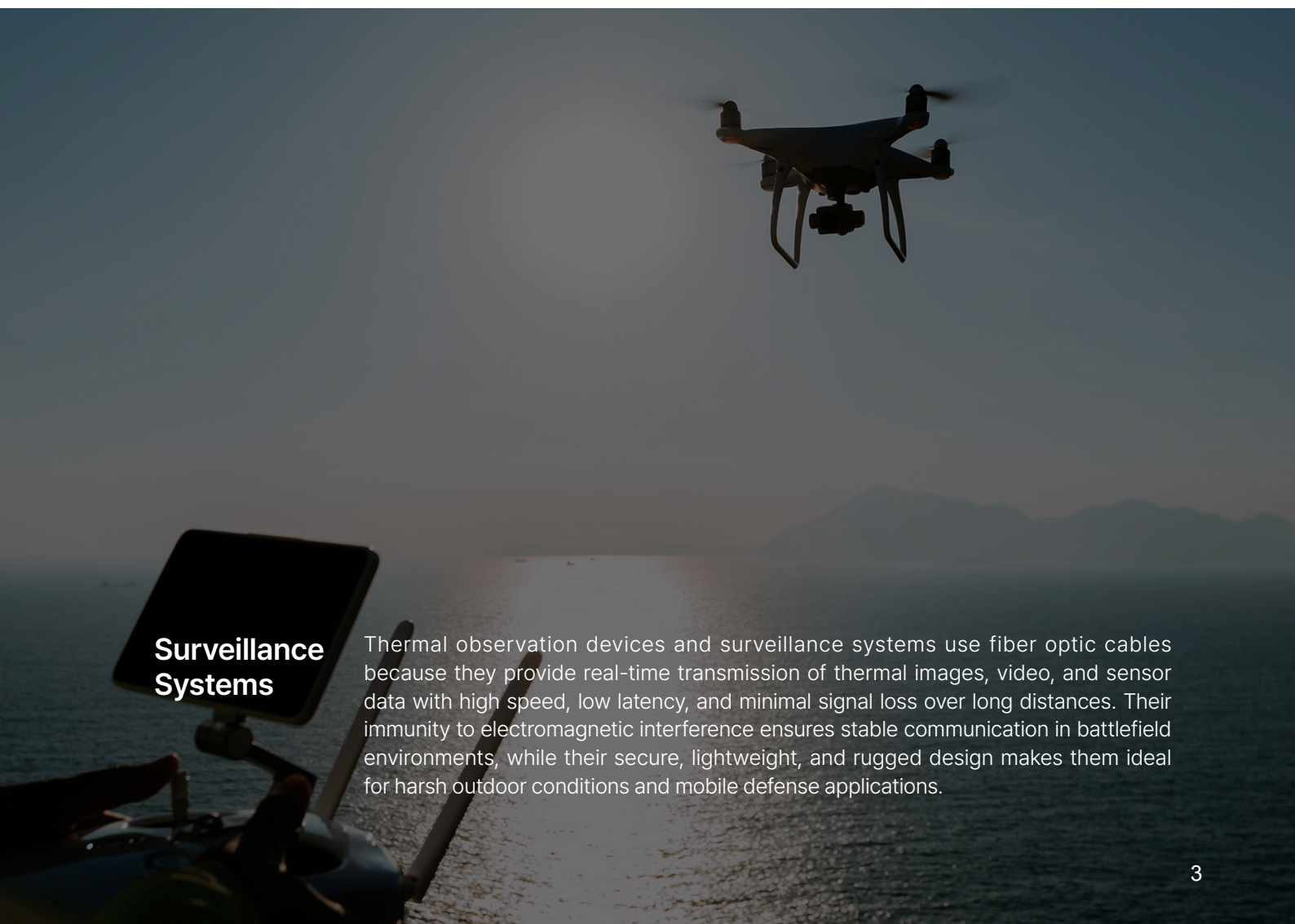
Guided Missile System

Tactical fiber optic cables are used in Guided Missile Systems because they provide real-time high-speed transmission of sensor, video, and control data, immunity to electromagnetic interference from battlefield equipment, enhanced communication security, lightweight long-distance connectivity, and reliable performance in harsh environments such as shock, vibration, moisture, dust, and extreme temperatures.



Oil&Gas Plant

Rugged fiber optic connectivity solutions are designed for oil and gas operations, including offshore platforms, refineries, and drilling sites. The systems resist extreme temperatures, vibration, moisture, and chemical exposure. Expanded beam technology ensures stable, high-speed communication for monitoring, automation, and safety systems in critical energy environments.



Surveillance Systems

Thermal observation devices and surveillance systems use fiber optic cables because they provide real-time transmission of thermal images, video, and sensor data with high speed, low latency, and minimal signal loss over long distances. Their immunity to electromagnetic interference ensures stable communication in battlefield environments, while their secure, lightweight, and rugged design makes them ideal for harsh outdoor conditions and mobile defense applications.

FOBEX 38999



FOBEX 38999 Expanded Beam Connector

The FOBEX 38999 is a heavy-duty, non-contact fiber optic connector designed for military, aerospace, and harsh environments. It combines the ultra-strong MIL-DTL-38999 circular platform with advanced expanded beam technology to ensure perfect performance where standard connectors fail.

FEATURES & BENEFITS

- High strength connection and excellent repeatability with screw-type coupling method.
- Various shell sizes and channel options 11 shell (2~4ch), 15 shell (2~8ch), 17 shell (2~24ch)
- Stable optical signal transmission with non-contact beam expansion method.
- Excellent environmental resistance and resistance to various external shocks and vibrations.
- Easy maintenance Production of photoelectric hybrid products tailored to customer requirements.

RELATED PRODUCTS



Hybrid Connector (Optical + Electrical)

This hybrid connector combines light signals and electric power into a single unit. Its integrated design saves installation space by eliminating the need for separate connectors. This streamlined approach simplifies maintenance and significantly reduces overall costs.



LC Adapter Type

It is a product in which the beam connector and the LC adapter are pre-connected, and can be used by directly connecting the patch cord to the LC adapter at the back of the product.



Pin-Beam Conversion Adapter

This adapter converts standard contact into a beam structure. It allows for easy conversion of pre-installed connectors without the need for additional cables, saving time and manufacturing costs.

SPECIFICATION

FOBEX38999 Expanded Beam Connector	
Insertion Loss	Single Mode(SM) : 1 to 4 ch : -1.5dB / 5 to 6 ch : -2.0dB / 7 to 24ch : -2.5dB Multimode (MM) : 1 to 4 ch : -1.5dB / 5 to 6 ch : -2.0dB / 7 to 24ch: -2.0dB
Return Loss	Single Mode (SM) >30dB
Mating Durability	1000 times
Operating temperature	-40°C to +85°C
Waterproof rating	IP67
Free Fall	350 drops impact at 1.2m height
Vibration	10-500 Hz, 3-direction, 0.75 mm amplitude, 10 g acceleration
Shock	4000 times, 40g acceleration
Corrosion Resistance	350 hour saline spray

ORDERING INFORMATION

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

e.g. FOBEX - 311 - P - W - 4 - 0 - 09 - B - 5.5 - R - N - LC/PC 001

A CONNECTOR SIZE

- 311 - 11 SHELL
- 315 - 15 SHELL
- 317 - 17 SHELL

B CONNECTOR TYPE A

- P - PLUG
- PH - PLUG INSULATOR TYPE(STRAIGHT)
- P90 - PLUG 90° ANGLED
- BD - BULKHEAD D-HOLE
- BS - BULKHEAD SQUARE FLANGE
- BDC - BULKHEAD D-HOLE WITH OUTER TAP
- BDH - BULKHEAD D-HOLE MOUNT INSULATOR TYPE
- BD90 - BULKHEAD D-HOLE 90° ANGLED
- BS90 - BULKHEAD SQUARE FLANGE 90° ANGLED

C MATERIAL / SHELL FINISH

- W - OLIVE DRAB CADMIUM OVER ELECTROLESS
- F - ALUMINUM SHELL, ELECTROLESS NICKEL FINISH

D NUMBER OF FIBER

- 1 - 1 OPTICAL CHANNEL
- 2 - 2 OPTICAL CHANNEL
- 4 - 4 CHANNEL
- 8 - 8 OPTICAL CHANNEL
- 12 - 12 OPTICAL CHANNEL
- 16 - 16 OPTICAL CHANNEL
- 24 - 24 OPTICAL CHANNEL

E NUMBER OF ELECTRICAL CONTACTS

- 0 - NO ELECTRICAL CONTACTS
- 2 - 2 ELECTRICAL CONTACTS(#14)
- 4 - 4 ELECTRICAL CONTACTS(#14)
- A - 2 ELECTRICAL CONTACTS(#16)
- B - 4 ELECTRICAL CONTACTS(#16)

F FIBER TYPE

- 09 - SM(9/125)
- 62 - MM OM1(62.5/125)
- 52 - MM OM2(50/125)
- 53 - MM OM3(50/125)
- 54 - MM OM4(50/125)

G WAVELENGTH

- A - 850/1300nm
- B - 1310/1550nm
- C - 850nm ONLY
- D - 1300nm ONLY
- E - 1310nm ONLY
- F - 1550nm ONLY

H CABLE DIAMETER

- Ø4.6 : 4.6MM
- Ø5.5 : 5.5MM
- Ø9.2 : 9.2MM

I DUST CAP STYLE

- N - RING TYPE
- R - ROPE TYPE
- C - CLIP TYPE

J KEY WAY

- N - N KEY
- A - A KEY
- B - B KEY
- RN - RN KEY
- RA - RA KEY
- RB - RB KEY

K CONNECTOR TYPE B

- A - SAME AS A
- LC - LC CONNECTOR TYPE
- SC - SC CONNECTOR TYPE
- FC - FC CONNECTOR TYPE
- ST - ST CONNECTOR TYPE

L CABLE LENGTH(M)

- 001 : 1M
- 050 : 50M
- 100 : 100M

FOBEX 83526



FOBEX 83526 complies with the MIL-DTL-83526/20 & 21 standards, ensuring stable and reliable data transmission in extreme environments. Its hermaphrodite design allows for easy connection and disconnection for over 3,000 cycles. Featuring advanced expanded beam technology, this connector minimizes signal loss caused by dust or outdoor contamination.

FEATURES & BENEFITS

- **Excellent Repeatability:** Reliable performance with a hermaphroditic design.
- **Multiple Sizes:** Available in Mini, Junior, Senior, and Maxi shell sizes.
- **Flexible Channels:** Options ranging from 2 up to 24 channels.
- **Stable Signal:** Non-contact beam expansion ensures consistent transmission.
- **High Durability:** Strong resistance to shocks, vibrations, and harsh environments.
- **Easy Maintenance:** Designed for quick and simple cleaning.
- **Custom Hybrids:** Tailor-made photoelectric hybrid solutions available.

RELATED PRODUCTS



Hybrid (Optical + Electrical)

This integrated hybrid connector supports both optical signals and electrical power in a single unit. Its compact design eliminates the need for separate connectors, allowing for highly space-efficient installations. This streamlined approach simplifies maintenance and offers a significant advantage in cost reduction.



LC Adapter Type

This product features an integrated beam connector and LC adapter. It allows for immediate use by simply plugging a LC patch cord directly into the LC adapter located at the back of the unit.



90° Degree Adapter

This adapter can be connected to the back of the 83526 expanded beam connector to prevent loss due to cable bending and disconnection, and can be installed in narrow spaces. It is also designed to be installed according to customer requirements as the position can be changed at 45-degree angle.

SPECIFICATION

FOBEX83526 Expanded Beam Connector	
Insertion Loss	Single Mode(SM) : 1 to 4 ch : - 1.5dB / 5 to 12 ch : 2.0dB / 16 to 24 ch : -2.5dB Multimode (MM) : 1 to 4 ch : -1.0dB / 5 to 24ch : -1.5dB
Return Loss	Single Mode(SM) > 34dB(typical 40dB)
Mating Durability	3000 times
Operating temperature	-40°C to +85°C
Flooding	24 hours 15m (after plug & receptacle combination)
IP Rating	IP67
Free Fall	500 drop shocks at 1.2m height
Vibration	20-500Hz, 3-axis, 0.75mm amplitude, 10g acceleration
Shock	4000 times, 40g acceleration
Corrosion Resistance	500 hours of saline spray

ORDERING INFORMATION

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

e.g. FOBEX-J-P-A-4-0-09-B-5.5-LC/PC-001

A CONNECTOR SIZE

- M – MINI
- J – JUNIOR
- S – SENIOR
- MX – MAXI

F FIBER TYPE

- 09 – SINGLE MODE(9/125)
- 52 – MULTI MODE(50/125) – OM2
- 53 – MULTI MODE(50/125) – OM3
- 54 – MULTI MODE(50/125) – OM4
- 62 – MULTI MODE(62.5/125) – OM1

B CONNECTOR TYPE A

- P – PLUG
- BD – BULKHEAD D-HOLE
- BS – BULKHEAD SQUARE FLANGE
- P90 – PLUG 90° ANGLED
- BD90 – BULKHEAD D-HOLE 90° ANGLED
- BS90 – BULKHEAD SQUARE FLANGE 90°

G WAVELENGTH

- A – 850/1300nm
- B – 1310/1550nm
- C – 850nm ONLY
- D – 1300nm ONLY
- E – 1310nm ONLY
- F – 1550nm ONLY

C MATERIAL / SHELL FINISH

- A – ALUMINUM
- S – STAINLESS STEEL

H CABLE DIAMETER

- Ø4.6 : 4.6MM
- Ø5.5 : 5.5MM
- Ø9.2 : 9.2MM

D NUMBER OF FIBER

- 1 – 1 OPTICAL CHANNEL
- 2 – 2 OPTICAL CHANNEL
- 4 – 4 OPTICAL CHANNEL
- 8 – 8 OPTICAL CHANNEL
- 12 – 12 OPTICAL CHANNEL
- 16 – 16 OPTICAL CHANNEL
- 24 – 24 OPTICAL CHANNEL

I CONNECTOR TYPE B

- A – SAME AS A
- LC – LC CONNECTOR TYPE
- SC – SC CONNECTOR TYPE
- FC – FC CONNECTOR TYPE
- ST – ST CONNECTOR TYPE

E NUMBER OF ELECTRICAL CONTACTS

- 0 – NO ELECTRICAL CONTACTS
- 1 – 1 ELECTRICAL CONTACTS
- 2 – 2 ELECTRICAL CONTACTS
- 4 – 4 ELECTRICAL CONTACTS

J CABLE LENGTH(M)

- 001 : 1M
- 050 : 50M
- 100 : 100M

SEAFOC



SEAFOC is special-purpose connector designed for fiber-based data transmission in underwater environments, used in a variety of marine-related applications, including ocean exploration, military operations, subsea communications, and connecting offshore structures. These connectors are designed to withstand harsh conditions such as pressure, moisture, salt, and physical stress in underwater.

FEATURES & BENEFITS

- Excellent waterproof performance with double sealing structure
- Stable optical signal transmission with non-contact expanded beam technology
- Lower maintenance and easier cleaning



SPECIFICATION

SEAFOC		
PARAMETER	Multimode(@850/1300nm)	Single Mode(@1310/1550nm)
Insertion Loss	4ch Typical 1.0dB, Max 2.5dB	4ch Typical 1.5dB, Max 2.5dB
Return Loss	-	>28dB (Typical 30dB)
Operating Temperature	-20°C to +50°C	
Storage Temperature	-40°C to +70°C	
Mating Durability	1,000 times	
Water Immersion	IP69K , 8,000m, 800 bar Pressure	

ORDERING INFORMATION

SEAFOC - A - B - C - D - E - F - G - H

e.g. SEAFOC - P - S - 4 - 09 - B - SC - 5.0MM - 100M

A CONNECTOR TYPE A

- P - PLUG
- BD - RECEPTACLE TYPE

B MATERIAL / SHELL FINISH

- S - STAINLESS STEEL, STS 316

C NUMBER OF FIBER

- 1 - 1 OPTICAL CHANNEL
- 2 - 2 OPTICAL CHANNEL
- 3 - 3 OPTICAL CHANNEL
- 4 - 4 OPTICAL CHANNEL

D FIBER TYPE

- 09 - SINGLE MODE(9/125)
- 52 - MULTI MODE(50/125) - OM2
- 53 - MULTI MODE(50/125) - OM3
- 54 - MULTI MODE(50/125) - OM4
- 62 - MULTI MODE(62.5/125) - OM1

E WAVELENGTH

- A - 850/1300nm
- B - 1310/1550nm
- C - 850nm ONLY
- D - 1300nm ONLY
- E - 1310nm ONLY
- F - 1550nm ONLY

F CABLE OUTSIDE DIMENSION

- 0 - 5.0 mm

G CONNECTOR TYPE B

- A - SAME AS END A
- SC - SC TYPE CONNECTOR
- LC - LC TYPE CONNECTOR
- FC - FC TYPE CONNECTOR
- ST - ST TYPE CONNECTOR

H CABLE LENGTH(M)

- 0.5 - 0.5M
- 1 - 1M
- 10 - 10M
- 100 - 100M



WBEAM



WBEAM connector is a non-contact optical connector designed for quick establishment of high-speed optical transmission links, even in harsh environments. It features a unique window shielding structure that provides enhanced environmental durability compared to previous non-contact designs. This makes it less susceptible to dust and contaminants, ensuring stable optical performance with easy maintenance. It has a hermaphroditic twist-locking structure which allows for extending the length of the system using Plug to Plug multiple cable assemblies.

FEATURES & BENEFITS

- Excellent repeatability of hermaphroditic design.
- Easy Cleaning and maintenance system with additional window
- Stable optical signal transmission with expanded beam technology
- Excellent environmental resistance to various external shocks and vibration



SPECIFICATION

WBEAM	
Parameter	Multimode(@850nm/1300nm)
Insertion Loss	4ch Typical 0.75dB, Max 2.0dB
Operating Temperature	-40°C to +85°C
Thermal Shock	-55°C to +85°C
Mating Durability	10,000 times
Water Immersion	IP68 (2meter, 48hrs)
Impact	26 Impacts @ 1.2m
Vibration	10 to 2000Hz / 15g
Shock	50g for 11ms, EIA/TIA-455-14, Condition A
Salt Spray	500 Hours

ORDERING INFORMATION

WB - A - B - C - D - E - F - G - H

e.g. WB - P - S - 4 - 53 - A - 5.5 - A - 1.0M

Wbeam Plug Stainless Steel, 4ch, OM3 for 850&1300nm Wavelength, 5.5mm cable, Plug 1.0M

A CONNECTOR TYPE A

- P - PLUG
- BD - BULKHEAD D-HOLE
- BS - BULKHEAD SQUARE FLNAGE

E WAVELENGTH

- A - 850/1300nm
- B - 850nm ONLY
- C - 1300nm ONLY

B MATERIAL / SHELL FINISH

- S - STAINLESS STEEL, STS303

F CABLE DIAMETER

- 40 : 4.0MM
- 55 : 5.5MM

C NUMBER OF FIBER

- 2 - 2 OPTICAL CHANNEL
- 4 - 4 OPTICAL CHANNEL

D FIBER TYPE

- 52 - MULTI MODE(50/125) - OM2
- 53 - MULTI MODE(50/125) - OM3
- 54 - MULTI MODE(50/125) - OM4
- 62 - MULTI MODE(62.5/125) - OM1

G CONNECTOR TYPE B

- A - SAME AS END A
- SC - SC TYPE CONNECTOR
- LC - LC TYPE CONNECTOR
- ST - ST TYPE CONNECTOR
- FC - FC TYPE

H CABLE LENGTH(M)

- 0.5 - 0.5M
- 1 - 1M
- 10 - 10M
- 100 - 100M



FFOCA



FFOCA is a ruggedized military grade fiber optic connector for tactical and deployable communication networks system.

It is mainly used for providing fast and reliable communication in harsh, contaminated and rapidly changing field environment such as military & defense industry, disaster response and field communication.

FEATURES & BENEFITS

- Excellent repeatability of the hermaphrodite type.
- Low insertion loss and stable optical signal transmission guaranteed by the contact method.
- Excellent environmental resistance and resistance to various external shocks and vibrations. > Excellent resistance to harsh environments, external shocks, and vibrations.
- Easy maintenance with simple cross-section cleaning.



SPECIFICATION

FFOCA		
Insertion Loss	Multimode(@850/1300nm) : 4ch Typical 0.3dB, Max 0.75dB	Single Mode(@1310/1550nm) : 4ch Typical 0.4dB, Max 0.75dB
Return Loss	-	>40dB(Typical 50dB)
Operating Temperature	-46°C to +71°C	
Storage Temperature	-55°C to +85°C	
Mating Durability	2,000 times	
Water Immersion	IP 68	
Impact	8 Impacts @ 8FT (2.4MT);EIA/TIA-455-2	
Vibration	10 to 2000Hz / 15g EIA/TIA-455-11; Cond. III	
Cable Retention	400lbs - Cable retention depends on cable type	

ORDERING INFORMATION

FCA - A - B - C - D - E - F - G - H

e.g. FCA - P - A - 4 - 09 - B - A - 55 - 1M

A CONNECTOR TYPE A

- P - PLUG
- BD - BULKHEAD D-HOLE

B MATERIAL / SHELL FINISH

- A -ALUMINUM OLIVE DRAB ZINC PLATING

C NUMBER OF FIBER

- 4 - 4 OPTICAL CHANNEL

D FIBER TYPE

- 09 - SINGLE MODE(9/125)
- 52 - MULTI MODE(50/125) - OM2
- 53 - MULTI MODE(50/125) - OM3
- 54 - MULTI MODE(50/125) - OM4
- 62 - MULTI MODE(62.5/125) - OM1

E WAVELENGTH

- A - 850/1300nm
- B - 1310/1550nm
- C - 850nm ONLY
- D - 1300nm ONLY
- E - 1310nm ONLY
- F - 1550nm ONLY

F CABLE DIAMETER

- 40 : 4.0MM
- 55 : 5.5MM

G CONNECTOR TYPE B

- A - SAME AS END A
- SC - SC TYPE CONNECTOR
- LC - LC TYPE CONNECTOR
- ST - ST TYPE CONNECTOR
- FC - FC TYPE CONNECTOR

H CABLE LENGTH(M)

- 0.5 - 0.5M
- 1 - 1M
- 10 - 10M
- 100 - 100M



MT38999



MT38999 connector is a ruggedized military grade fiber optic connector for tactical and deployable communication networks system.

It is mainly used for providing fast and reliable communication in harsh, contaminated and rapid changing field environment such as military & defense industry, disaster response and field communication.

FEATURES & BENEFITS

- High-Density MIL-Spec: Compact circular design with full MIL-DTL-38999 Series III advantages.
- Precision Alignment: Three-step system ensures accurate fiber-to-fiber interfacing.
- Versatile Keying: Shell-to-shell keying for alternate positions and secure mating.
- Rugged Design: Maximum resistance to extreme shocks, vibrations, and environments.



SPECIFICATION

MT38999	
Fiber Count Option	12-48 Fiber / Ferrule
Insertion Loss	-1.0dB Max
Operating Temperature	-40°C to +85°C
Shell Arrangements	Size 11 with One Ferrule Size 17 with Three Ferrule

ORDERING INFORMATION

MT38999-A-B-C-D-E-F-G-H-I-J-K

e.g. MT38999-11-P-W-12-09-B-MT(F)/UPC-N-55-A-001

A CONNECTOR SIZE

- 11 – 11 SHELL
- 13 – 13 SHELL
- 17 – 17 SHELL

B CONNECTOR TYPE A

- P – PLUG
- BD – BULKHEAD D-HOLE
- BS – BULKHEAD SQUARE MOUNT

C MATERIAL / SHELL FINISH

- W – ALUMINUM OLIVE DRAB
- F – ALUMINUM NICKEL ELECTROLESS

D FIBER COUNT

- 12 – 12 CHANNEL
- 16 – 16 CHANNEL
- 24 – 24 CHANNEL
- 36 – 36 CHANNEL

E FIBER TYPE

- 09 – SM(9/125)
- 52 – MM, OM2(50/125)
- 53 – MM, OM3(50/125)
- 54 – MM, OM4(50/125)
- 62 – MM, OM1(62.5/125)

F WAVELENGTH

- A – 850/1300nm
- B – 1310/1550nm
- C – 850nm ONLY
- D – 1300nm ONLY
- E – 1310nm ONLY
- F – 1550nm ONLY

G POLISHING/FERRULE TYPE

- MT(F)/UPC – UPC, Female
- MT(F)/APC – APC, Female
- MT(M)/UPC – UPC, Male
- MT(F)/APC – APC, Male

H KEY-WAY

- N – N KEY
- A – A KEY
- B – B KEY
- RN – RN KEY

I CABLE DIAMETER

- 55 : 5.5MM
- 65 : 6.5MM

J CONNECTOR TYPE B

- A – SAME AS A
- SC – SC CONNECTOR
- LC – LC CONNECTOR
- FC – FC CONNECTOR
- ST – ST CONNECTOR

K CABLE LENGTH(M)

- 001 : 1M
- 010 : 10M
- 100 : 100M

PT/LC



PT/LC connector combines a rugged PT circular connector platform with a standard LC duplex fiber optic interface, delivering high-density optical performance with exceptional mechanical and environmental robustness for industrial, military, aerospace, and outdoor applications.

FEATURES & BENEFITS

- Provides high fiber density in a relatively small circular connector while maintaining the advantages of MIL-DTL-38999 Series III connectors.
- Provides high-precision fiber alignment in three easy steps.

SPECIFICATION

PTLC		
Fiber Type / Insertion Loss	Single Mode : -0.5dB Max	Multi Mode : -0.5dB Max
Return Loss	-55dB	-25dB
Operating Temperature	-46°C to +71°C	
Mating Durability	Bayonet Type < 50 Cycles Threaded Type < 500 Cycles	
Materials	Shell	BRASS & ZAMAK#3,QQ-2-363 E
	Ferrule	Zirconia Ceramic
	Alignment Sleeve	Zirconia Ceramic

ORDERING INFORMATION

PTLC - A - B - C - D - E - F - G - H

e.g. PTLC-P-W-2-09-B-55-LC/PC-001

A CONNECTOR TYPE A - P – PLUG - R – BULKHEAD D-HOLE	E WAVELENGTH - A – 850/1300nm - B – 1310/1550nm - C – 850nm ONLY - D – 1300nm ONLY - E – 1310nm ONLY - F – 1550nm ONLY	F CABLE DIAMETER - Ø4.6 : 4.6MM - Ø5.5 : 5.5MM - Ø9.2 : 9.2MM
B MATERIAL / SHELL FINISH - W – OLIVE DRAB CADMIUM OVER ELECTROLESS - F – ALUMINUM SHELL, ELECTROLESS NICKEL FINISH	G CONNECTOR TYPE B - A : SAME AS A - LC : LC TYPE CONNECTOR - SC : SC TYPE CONNECTOR - ST : ST TYPE CONNECTOR - FC : FC TYPE CONNECTOR	
C NUMBER OF FIBER 2 – 2 OPTICAL CHANNEL	H CABLE LENGTH(M) 001 : 1M 050 : 50M 100 : 100M	
D FIBER TYPE 09 – SINGLE MODE(9/125) 52 – MULTI MODE(50/125) – OM2 53 – MULTI MODE(50/125) – OM3 54 – MULTI MODE(50/125) – OM4 62 – MULTI MODE(62.5/125) – OM1		

ODC



ODC connector is a ruggedized fiber optic Connector developed for outdoor, industrial, and harsh environment optical networks. It is designed to provide reliable optical performance while withstanding mechanical stress, environmental exposure, and frequent handling far beyond the limits of standard indoor fiber connectors.

FEATURES & BENEFITS

- Optical connector for field environments.
- 2-channel and 4-channel options available.
- High-strength connection with screw-type coupling.
- Low insertion loss and high environmental reliability.

SPECIFICATION

ODC		
Optics	Insertion Loss : SM 0.5dB	Insertion Loss : MM 0.4dB
	Return Loss : ≥50dB	
Machine	Temperature Environment : -40°C to +85°C	
	Waterproof Characteristics : IP67 or IP68	

ORDERING INFORMATION

ODC - A - B - C - D - E - F - G

e.g. ODC-P-2-09-B-55-LC/PC-001

A CONNECTOR TYPE A

- P – PLUG
- R – RECEPTACLE

B NUMBER OF FIBER

- 2 – 2 OPTICAL CHANNEL

C FIBER TYPE

- 09 – SINGLE MODE(9/125)
- 52 – MULTI MODE(50/125) – OM2
- 53 – MULTI MODE(50/125) – OM3
- 54 – MULTI MODE(50/125) – OM4
- 62 – MULTI MODE(62.5/125) – OM1

D WAVELENGTH

- A – 850/1300nm
- B – 1310/1550nm
- C – 850nm ONLY
- D – 1300nm ONLY
- E – 1310nm ONLY
- F – 1550nm ONLY

E CABLE DIAMETER

- 2.0 – Ø 2.0 MM
- 5.5 – Ø 5.5 MM
- SZ – STANDARD ZIP CORD (2*2.8)

F CONNECTOR TYPE B

- A – SAME AS END A
- SC – SC TYPE CONNECTOR
- LC – LC TYPE CONNECTOR
- ST – ST TYPE CONNECTOR

G CABLE LENGTH(M)

- 0.5 – 0.5M
- 1 – 1M
- 10 – 10M
- 100 – 100M

FSSC



FSSC is designed for integrated communication and safety systems used between LNG Terminals (Shore) and LNG Carriers (Ship), primarily focusing on Emergency Shut-Down (ESD) signals and telecommunications.

It provides high-speed, high-reliability data transmission between ship to ship and ship to shore.

FEATURES & BENEFITS

- Corrosion-resistant structure.
- On-site maintenance possible.
- Ship docking facility

SPECIFICATION

FSSC		
PARAMETER	Multimode(@850/1300nm)	Single Mode(@1310/1550nm)
Insertion Loss	6ch Typical 1.0dB, Max 1.5dB	6ch Typical 1.0dB, Max 1.5dB
Operating temperature	-46°C to +71°C	
Storage temperature	-55°C to +85°C	
Durability	Min 500 matings	
IP rating	IP68	
Corrosion Resistance	KS D 9502, 360hours salt spray	
Vibration	10-2000Hz, 3 directions, 1.52mm amplitude @20g acceleration	
Tensile Strength	2,000N (Depending on cable specification)	

ORDERING INFORMATION

FSSC - A - B - C - D - E - F - G - H - I

e.g. FSSC - P - R - S - 6 - 09 - B - 13.8 - A - 1.0

A

CONNECTOR TYPE A

- P – PLUG
- PL – PLUG LOOPBACK
- R – RECEPTACLE S-Q TYPE
- RL – RECEPTACLE LOOPBACK

B

RUBBER COVER(Option)

- R- RUBBER COVER(OPTION, ONLY PLUG)

C

MATERIAL / SHELL FINISH

- S – STAINLESS STEEL(STS316)

D

NUMBER OF FIBER

- 1 – 1 OPTICAL CHANNEL
- 2 – 2 OPTICAL CHANNEL
- 3 – 3 OPTICAL CHANNEL
- 4 – 4 OPTICAL CHANNEL
- 5 – 5 OPTICAL CHANNEL
- 6 – 6 OPTICAL CHANNEL

E

FIBER TYPE

- 09 – SINGLE MODE(9/125)
- 52 – MULTI MODE(50/125) – OM2
- 53 – MULTI MODE(50/125) – OM3
- 54 – MULTI MODE(50/125) – OM4
- 62 – MULTI MODE(62.5/125) – OM1

F

WAVELENGTH

- A – 850/1300nm
- B – 1310/1550nm
- C – 850nm ONLY
- D – 1300nm ONLY
- E – 1310nm ONLY
- F – 1550nm ONLY

G

CABLE DIAMETER

- 13.8 : 13.8MM
- 16 : 16MM
- 20 : 20MM

H

CONNECTOR TYPE B

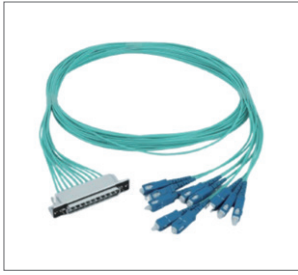
- A – SAME AS END A
- SC – SC TYPE CONNECTOR
- LC – LC TYPE CONNECTOR
- ST – ST TYPE CONNECTOR
- FC – FC TYPE CONNECTOR

I

CABLE LENGTH(M)

- 0.5 – 0.5M
- 1 – 1M
- 10 – 10M
- 100 – 100M

FD-SUB



FD-SUB is designed to transmit optical signals while maintaining the standard D-sub mechanical form factor. It replaces electrical contacts with fiber-optic termini, enabling optical communication in systems originally designed for D-sub connectors. It provides secure mounting, compact size, and easy integration into equipment panels. They typically support single-mode or multimode fibers and offer good resistance to vibration and mechanical stress. These connectors are commonly used in avionics, military systems, industrial control, and instrumentation, where space constraints and standardized interfaces are important.

FEATURES & BENEFITS

- High-density optical connection for efficient space utilization and cost reduction.
- Possible to connect photoelectric and electrical simultaneously.
- Increased user convenience through rapid multi-channel combination.
- Customizable to meet your specific requirements.

SPECIFICATION

FD-SUB		
PARAMETER	Multimode(@850/1300nm)	Single mode(@1310/1550nm)
Insertion Loss	1-4 ch 1.0dB Max 1.5dB Max over 4ch	1-4 ch 1.0dB Max 1.5dB Max over 4ch
Operating temperature	-60°C to +85°C	
Storage temperature	-60°C to +85°C	
Durability	Min 500 matings	
Vibration	10-2000Hz, 3 directions, 1.52mm amplitude @20g acceleration	
Terminus	M29504/4-4208(4209, 4210, 4040) -29504/5-4237(4238, 4239, 4046)	

ORDERING INFORMATION

FODC - A - B - C - D - E - F - G - H - I

e.g. FODC - PC - C - 1 - 1 - 09 - A - 2 - A - 1.0

A CONNECTOR TYPE A - PC - PLUG - RC - RECEPTACLE	E FIBER TYPE 09 - SINGLE MODE(9/125) 52 - MULTI MODE(50/125) - OM2 53 - MULTI MODE(50/125) - OM3 54 - MULTI MODE(50/125) - OM4 62 - MULTI MODE(62.5/125) - OM1
B MATERIAL / SHELL FINISH - C - ALUMINUM SHELL / CHROMATE 1A - F - ALUMINUM SHELL / ANODIC COATING	F WAVELENGTH - A - 850/1300nm - B - 1310/1550nm - C - 850nm ONLY - D - 1300nm ONLY - E - 1310nm ONLY - F - 1550nm ONLY
D NUMBER OF FIBERS 0 - 0 OPTICAL CHANNEL 2 - 2 OPTICAL CHANNEL 4 - 4 OPTICAL CHANNEL 8 - 8 OPTICAL CHANNEL 10 - 10 OPTICAL CHANNEL	H CONNECTOR TYPE B - A - SAME AS END A - SC - SC TYPE CONNECTOR - LC - LC TYPE CONNECTOR - ST - ST TYPE CONNECTOR - FC - FC TYPE CONNECTOR
D NUMBER OF ELECTRICAL 0 - NO ELECTRICAL CONTACTS 2 - 2 ELECTRICAL CONTACTS 4 - 4 ELECTRICAL CONTACTS 8 - 8 ELECTRICAL CONTACTS 10 - 10 ELECTRICAL CONTACTS	G CABLE DIAMETER 0.9 : 0.9mm 2.0 : 2.0mm
	I CABLE LENGTH(M) 1 - 1M 10 - 10M 100 - 100M

Handheld Cable Reel

Handheld type tactical cable reel is a portable cable reel. It could be used for short length fiber optic or hybrid cables and It is necessary for rapid deployment, retrieval, and storage of tactical communication cables in field and combat environments.

	Code	MOFC-R-P235						
	Type	Hand-held type						
	Size(mm)	235 × 210 × 315						
	Material	Reinforced Plastic						
	Weight(kg)	1.7						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	160	100	70	55	40	25	N/A

	Code	MOFC-R-P310						
	Type	Hand-held type						
	Size(mm)	315 × 240 × 395						
	Material	Reinforced Plastic						
	Weight(kg)	2.0						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	320	200	140	110	80	55	20

	Code	MOFC-R-P380						
	Type	Hand-held type						
	Size(mm)	380 × 345 × 490						
	Material	Reinforced Plastic						
	Weight(kg)	5.0						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	650	400	300	210	160	100	40

	Code	STS-02A						
	Type	Hand-held type						
	Size(mm)	300 × 225 × 400						
	Material	Reinforced Plastic						
	Weight(kg)	1.6						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	360	230	160	120	90	60	20

	Code	MOFC-R-C						
	Type	Hand-held type						
	Size(mm)	320 × 195 × 450						
	Material	Steel						
	Weight(kg)	7.0						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	220	150	100	80	65	40	15

Backpack Style Cable Reel

Tactical Backpack-Style Cable Reel is a specialized deployment system designed for “on-the-move” operations. Unlike handheld reels, these are worn on the operator’s back, allowing for hands-free cable deployment while walking or trekking through difficult terrain.

	Code	MOFC-B-C(Reel with Backpack)						
	Type	Backpack type						
	Size(mm)	360 × 450 × 800						
	Material	Steel & Aluminum						
	Weight(kg)	5.4						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	1050	680	480	360	320	180	75

	Code	MOFC-B-C(Reel only)						
	Type	Cable Spool						
	Size(mm)	380 × 380 × 400						
	Material	Aluminum						
	Weight(kg)	4.8						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	1050	680	480	360	320	180	75

	Code	MOFC-R-ASR						
	Type	Backpack type						
	Size(mm)	360 × 700 × 450						
	Material	Aluminum						
	Weight(kg)	11kg						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	950	600	410	300	220	145	60

	Code	ST8200-B						
	Type	Backpack type						
	Size(mm)	375 × 465 × 420						
	Material	Steel						
	Weight(kg)	6.0						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	495	320	230	165	130	90	35

Cart Type Cable Reel

Tactical cart-type cable reel is a wheeled, ground-deployable cable management system designed for the rapid deployment, retrieval, and transport of long-length tactical communication cables in field and military environments. It bridges the gap between handheld/back-pack reels and vehicle-mounted reels, providing high cable capacity with excellent mobility while remaining independent of vehicles and external power.

	Code	AV30-R						
	Type	Cart type						
	Size(mm)	330 × 350 × 350						
	Material	Steel						
	Weight(kg)	8.3						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	420	250	190	150	120	80	30

	Code	AV38-R						
	Type	Cart type						
	Size(mm)	330 × 425 × 425						
	Material	Steel						
	Weight(kg)	9.6						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	1300	650	400	300	210	160	130

	Code	AV45-R						
	Type	Cart type						
	Size(mm)	390 × 510 × 510						
	Material	Steel						
	Weight(kg)	10.5						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	1500	990	700	520	440	250	100

	Code	AV50-R						
	Type	Cart type						
	Size(mm)	420 × 550 × 575						
	Material	Steel						
	Weight(kg)	14.2						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	1800	1220	850	600	500	300	120

	Code	MOFC-R						
	Type	Cart type						
	Size(mm)	650 × 460 × 620(1020)						
	Material	Steel & Aluminum						
	Weight(kg)	22.4						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	1800	1220	850	600	500	280	125

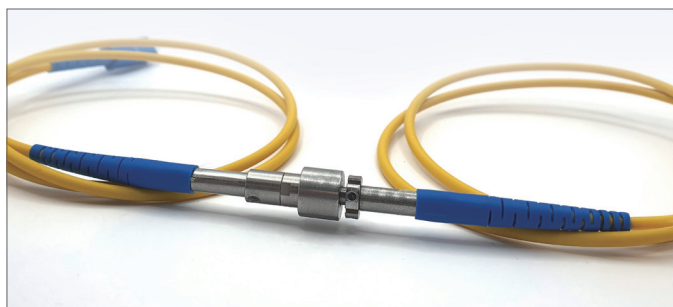
	Code	MOFC-R(MD)						
	Type	Cart type						
	Size(mm)	500 × 490 × 862						
	Material	Steel & Aluminum						
	Weight(kg)	18						
	Cable O.D(mm)	4.0	5.0	6.0	7.0	8.0	10.0	16.0
	Capacity(M)	1800	1220	850	600	50	290	110

FORJ(Fiber Optic Rotary Joint)

FORJ(Fiber Optic Rotary Joint) enables continuous rotation in fiber-optic systems while maintaining stable signal transmission. It supports single-mode or multimode fibers with multiple channels and delivers low insertion loss, low rotational variation, and high reliability.

FORJs are commonly used in radar, surveillance, cable reels, robotics, wind turbines, medical equipment, and military or industrial applications requiring uninterrupted communication during rotation.

FORJ 1CH



1CH								
Mode	Wavelength	Insertion Loss (IL)	Return Loss (RL)	Maximum Speed	Working Temperature	Ripple	Housing Material	Turning Radius
Single Mode	1280nm~1650nm	≤ 1.5dB	UPC ≥ 45dB	1000 RPM	-40 to 80 °C	±0.5dB	Stainless Steel	Infinite Rotation
			APC ≥ 50dB					
Multi Mode	850nm~1310nm	≤ 1.0dB	UPC ≥ 30dB	1000 RPM				
			APC ≥ 35dB					
Single Mode & Multi Mode	Exterior Surfaces	IP67						
	Vibration	Tested to MIL-STD-167-1 (Ships)						
	Shock	Tested to MIL-STD-810D						

FORJ 4CH



4CH								
Mode	Wavelength	Insertion Loss (IL)	Return Loss (RL)	Maximum Speed	Working Temperature	Ripple	Housing Material	Turning Radius
Single Mode	1280nm~1650nm	≤ 3.0dB	UPC ≥ 45dB	300 RPM	-40 to 80 °C	±1.0dB	Stainless Steel	Infinite Rotation
			APC ≥ 55dB					
Multi Mode	850nm~1310nm	≤ 3.0dB	UPC ≥ 30dB	300 RPM				
			APC ≥ 35dB					
Single Mode & Multi Mode	Exterior Surfaces	IP67						
	Vibration	Tested to MIL-STD-167-1 (Ships)						
	Shock	Tested to MIL-STD-810D						

M29504/4&5



M29504/4 and M29504/5 are widely used in MIL-DTL-38999 circular connectors providing a ruggedized, physical-contact fiber interface suitable for aerospace, ground vehicle, naval, and defense systems.

ORDERING INFORMATION

Pin Terminus (M29504/4)				
Part Number		Fiber Core / Cladding	A Dia (mm)	Reference
F1000-513SMPI	S55	9/125 (Single Mode)	125.5	M29504/4-4208
	S60		126.0	M29504/4-4209
	M60	50/125 (Multi Mode)	126.0	M29504/4-4210
	M70	62.5/125 (Multi Mode)	127.0	M29504/4-4040

Pin Terminus (M29504/5)				
Part Number		Fiber Core / Cladding	A Dia (mm)	Reference
F1000-513SMSO	S55	9/125 (Single Mode)	125.5	M29504/5-4237
	S60		126.0	M29504/5-4238
	M60	50/125 (Multi Mode)	126.0	M29504/5-4239
	M70	62.5/125 (Multi Mode)	127.0	M29504/5-4046

M29504/14&15



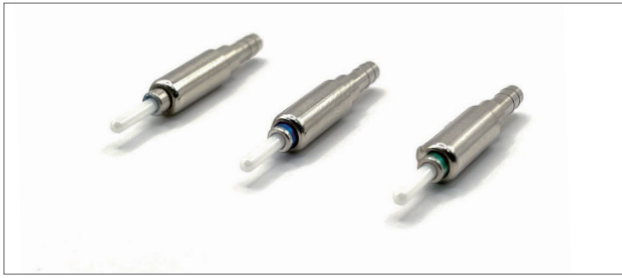
M29504/14 and M29504/15 are high-performance fiber optic termini designed specifically for use in MIL-PRF-28876 connectors.

ORDERING INFORMATION

Size 16 M29504/14 Fiber Optic Pin Terminus				
Part Number		Fiber Core / Cladding	Hole Dia(μm)	Reference
F1000-501SMPI	S50	9 / 125 (Single Mode)	125.0	M29504/14-4140C
	S60		126.0	M29504/14-4141C
	M60	50 / 125 (Multi Mode)	126.0	M29504/14-4131C
	M70	62.5 / 125 (Multi Mode)	127.0	M29504/14-4132C

Size 16 M29504/15 Fiber Optic Pin Terminus				
Part Number		Fiber Core / Cladding	Hole Dia(μm)	Reference
F1000-501SMSO	S50	9 / 125 (Single Mode)	125.0	M29504/15-4180C
	S60		126.0	M29504/15-4181C
	M60	50 / 125 (Multi Mode)	126.0	M29504/15-4171C
	M70	62.5 / 125 (Multi Mode)	127.0	M29504/15-4172C

ARINC801



ARINC 801 is a high-performance, next-generation fiber optic connector standard for commercial aviation and military aerospace, offering a standardized, easy-to-maintain, high-density alternative to legacy MIL-SPEC termini such as M29504.

ORDERING INFORMATION

Part Number		Fiber Core/Cladding	A Dia (μm)	Reference No.
F1000-504SMPI	-S50	9/125 (Single Mode), UPC	125.0	N/A
	-S55	9/125 (Single Mode), UPC	125.5	N/A
	-S60	9/125 (Single Mode), UPC	126.0	N/A
	-A50	9/125 (Single Mode), APC	125.0	N/A
	-A55	9/125 (Single Mode), APC	125.5	N/A
	-A60	9/125 (Single Mode), APC	126.0	N/A
	-M55	50/125 or 62.5/125 (Multi Mode)	125.5	N/A
	-M60	50/125 or 62.5/125 (Multi Mode)	126.0	N/A
	-M70	50/125 or 62.5/125 (Multi Mode)	127.0	N/A

EB Terminus Alternative to M29504/4&5



FOSTEC expanded beam terminus(FOBEX-P) can upgrade the physical contact type connector to non-contact type expanded beam connector FOBEX-P has a lens which is placed in front of the fiber ends and the lens expands the light beam. It makes the connection more robust against contamination, dust, and misalignment. Expanded beam terminus designs are particularly suited for harsh environments such as military, aerospace, and industrial applications. They are highly resistant to vibration, shock, dirt, and moisture.

ORDERING INFORMATION

Part Number		A Dia (mm)Reference	Hole Dia (μm)	Reference
F1000-500SMPI	S55	9/125 (Single Mode)	125.5	-
	M60	50/125 or 62.5/125 (Multimode)	126.0	-
F1000-500SMSO	S55	9/125 (Single Mode)	125.5	-
	M60	50/125 or 62.5/125 (Multimode)	126.0	-

FS-21S Fusion Splicer



FS-21S Fiber fusion splicer is a 6-motor fusion splicer with the latest fiber core to core alignment technology, it has very stable performance and low fusion loss, it is suitable for different fiber optical projects , including backbone, FTTx etc.

SPECIFICATION

Model	FS-21S
Applicable fiber	SM(ITU-T G.652), MM(ITU-T G.651), DS(ITU-T G.653), NZDS(ITU-T G.655), EDFA, Others(including G 657)
Optical fiber diameter	Cladding : 80-150μm, Coating : 160-900μm
Fiber cleaved length	5-16mm (Coating diameter : < 250um), 16mm (Coating diameter : 250-1000um)
Typical splice loss	SM : 0.02dB, MM : 0.01dB, DS : 0.04dB, NZDS : 0.04dB
Return loss	> 60dB
Typical splicing time	6 seconds
Typical heating time	18 seconds for 60mm and 40mm shrinkable sleeves
Fiber magnification	250X (X or Y view), 125X (X and Y view)
Display screen	2 CMOS cameras, 5.0 inch color LCD monitor
Tension test	1.8~2.25 N
Interface	GUI menu interface, easy for operation
Battery	5200mAh Li-battery, typical 300 cycles splicing and heating, support separating charging, operating time more than 5 hours, discharging time more 8 hours
Power supply	Adapter, input : AC220 +30V(50/60HZ), output : DC12 +2V
Electrodes life	More than 5000 ARC discharges, can be replaced conveniently
Operating conditions	Altitude : 0-5000m, Humidity : 0-95%, Operating Temperature : -25°C~+50°C, Storage temperature -40°C~+80°C; Wind speed : Max 15m/s
Dimension	156mm(L) * 141mm(W)* 156mm(H) (including rubber armor)
Weight	2.45kg (including battery)

MOFS-1 Field cable repair KIT



MOFS-1 kit protects your fiber optic connections after a repair. You can easily fix damaged cables using a standard fusion splicer. It is highly reliable and fully waterproof (IP68 rated), keeping your connections safe from water and dust.

SPECIFICATION

MOFS-1	
Operating	-40°C ~ +85°C
Water Resistance	IP68
Tensile Load	1000N
Bending Radius	75mm
Size	Max 350mm Length
Splicing Capacity	4Channel
Cable	ø5~ø10mm , 2~4core, SMF, MMF

MOFC-M Microscope & Cleaning Set



Fiber optic inspection scope is a specialized tool for inspecting and analyzing fiber optic connector end faces. The scope verifies cleanliness and identifies dust, dirt, scratches, and other contaminants affecting signal transmission. FOSTEC provides inspection scopes with dedicated cleaners for easy and effective fiber end-face maintenance.

COMPONENTS

MOFC-M	
Component Name	Number
Microscope	1EQISTQPB
Microscope-SC-M	1EQISTQTSCMA
Microscope-SC-F	1EQISTQTSCFE
Microscope-LC-M	1EQISTQTLICMA
Microscope-LC-F	1EEQISTQTLCFE
Microscope-Mil-M	FS-T00090
Microscope-Mil-F	FS-T00078
LC Cleaner / 1.25mm	1TL01PE-12-001
SC Cleaner / 2.5mm	1TL01PE-25-001
MIL Cleaner / 1.6mm	1TL01PE-MP-0001

MOFC-B Portable Optical Test Set



MOFC-B Includes portable fiber optic light source, power meter, fault locator and reference patch cord to test fiber optic performance at field.

COMPONENTS

MOFC-B	
Component Name	Number
Power Meter	FOPM-001
Light Source	FOLS-001
Fault Locator	1EQUOL6003
-	1EQISTQTLICMA
Zero Patch Code(SM-SC / PC-SC / PC-1M)	FS-M00352
Zero Patch Code(SM-LC / PC-LC / PC-1M)	FS-M00351
Power Adapter	1FMCDUAPOW-5
SC / SC Adapter	3AD111CBL1
-	1TL01PE-12-005
LC / SC Adapter	1HYFFASCBL11CPTK(SM)



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