

FOBEX™ 38999

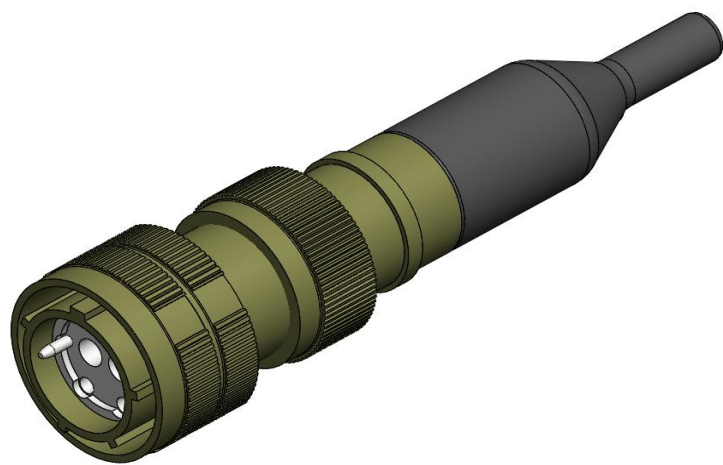
- FOSTEC EXPANDED BEAM CONNECTOR-

ABOUT FOBEX

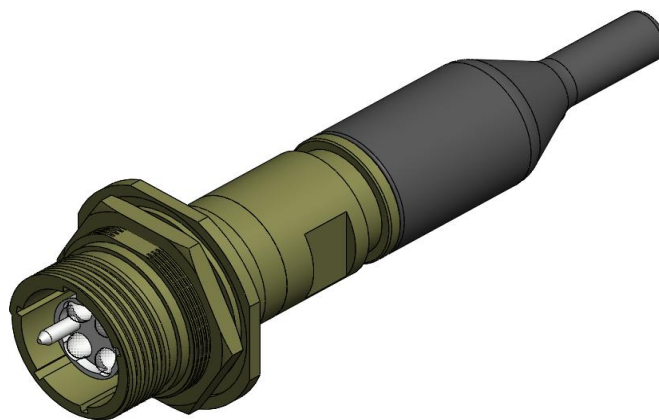
FOBEX 38999 is an MIL-DTL-38999 An optical connector which is applied to beam expanding optical signal transmission technology into a connector designed according to military standards. It can be used in a variety of adverse conditions such as extreme temperature, vibration, shock, humidity, and dust. It has little impact from outdoor contamination and is easy to maintain, making it easy to use tactically.

Features & Benefits

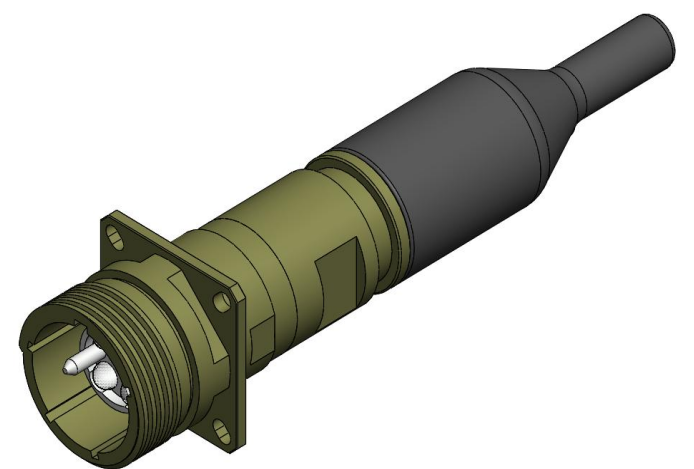
- High strength connection and excellent repeatability with screw-type coupling method.
- Various shell sizes and channel options 11 shell (2~4ch), 15 shell (2~8ch), 17 shell (2~24ch)
- Stable optical signal transmission with non-contact beam expansion method
- Excellent environmental resistance and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



PLUG



D-HOLE

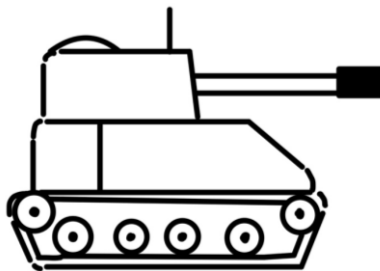


SQUARE FLANGE

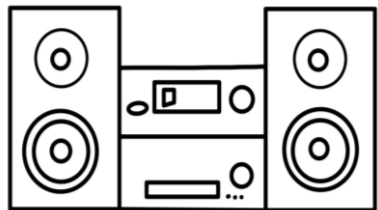
APPLICATION

- Mission Critical Combat and Communication Systems
- Mobile Tactical Shelters Electronic Battlefield Networks
- Navy shipboard, Surface Craft and Submarines
- Mining and Tunneling Equipment
- Offshore, Subsea System
- Oil and Gas Plant industries
- Communicating and control system for Railway

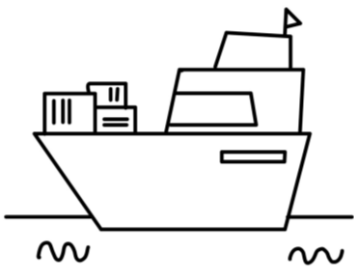
Defense



Broadcast



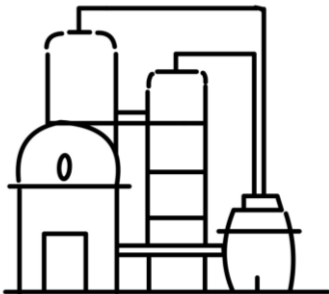
Ship



Mining



Oil & Gas Plant



Railway

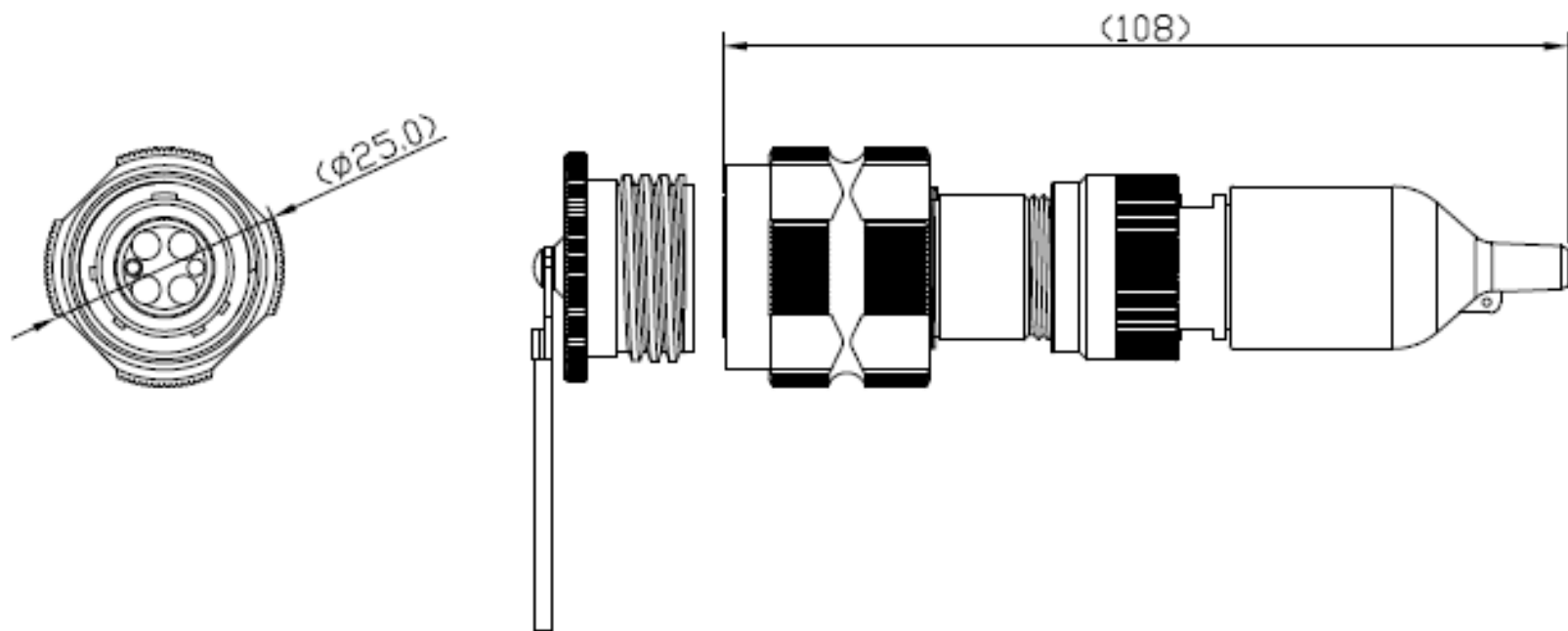


SPECIFICATION

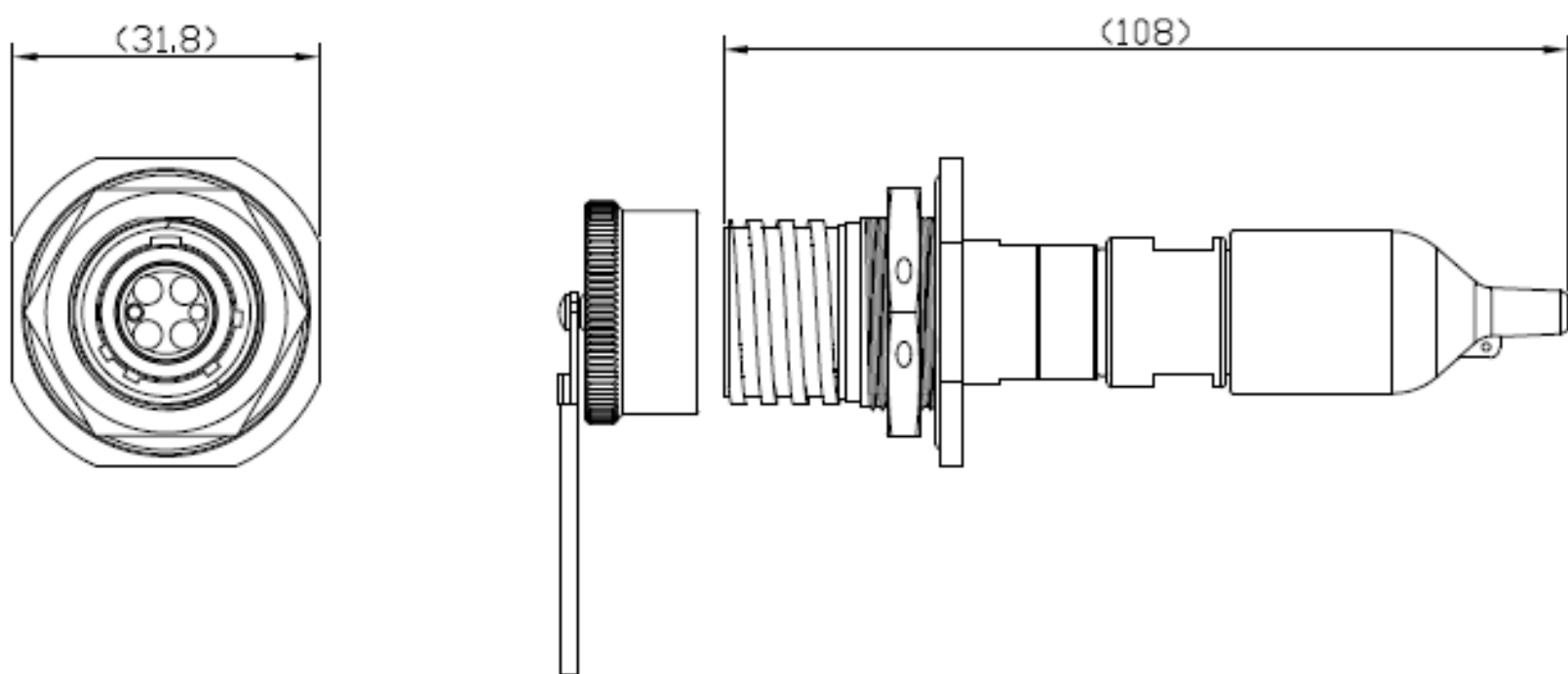
Parameter	Multimode(@850nm/1300nm)	Single mode(@1310nm/1550nm)
Insertion Loss	1 to 4 channels 0.5 - 1.0dB Max 6 to 24 channels 0.5 - 1.5dB Max	1 to 4 channels 1.0(typical) - 1.5dB Max 6 to 12 channels 1.0(typical) - 2.0dB Max 16 to 24 channels 1.0(typical) - 2.5dB Max
Return Loss	-	> 34dB(typical 40dB)
Operating temperature	-40°C to +85°C	
Storage temperature	-55°C to +85°C	
Durability	1,000 matings	
Water Immersion	IP67	
Free Fall Resistance	350 Falls from 1.2m height	
Vibration	10-500Hz, 3 directions, 0.75mm amplitude @10g acceleration	
Cable Retention	1,000N(Cable Dependant)	

FOBEX 38999 11SHELL CONFIGURATION

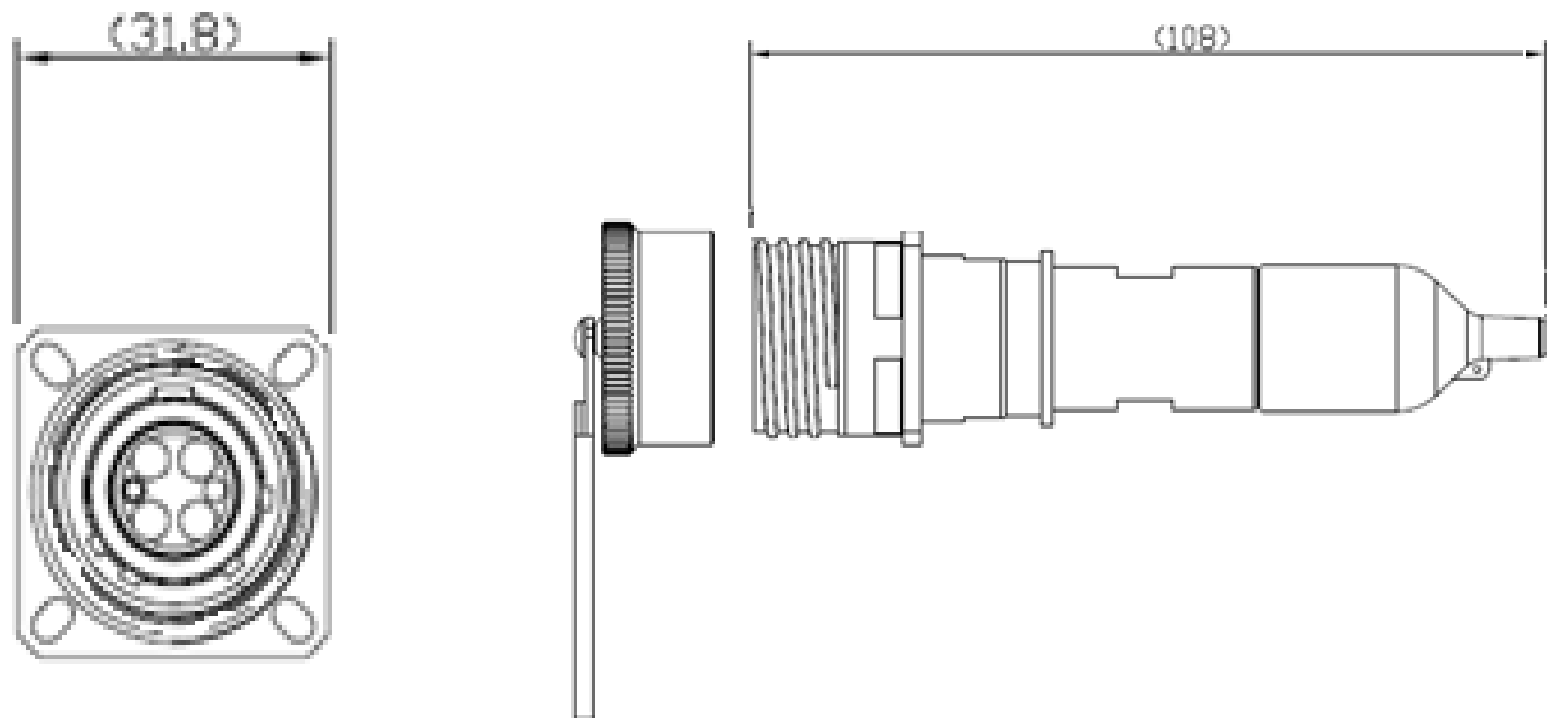
STRAIGHT PLUG TYPE



BULKHEAD D-HOLE TYPE

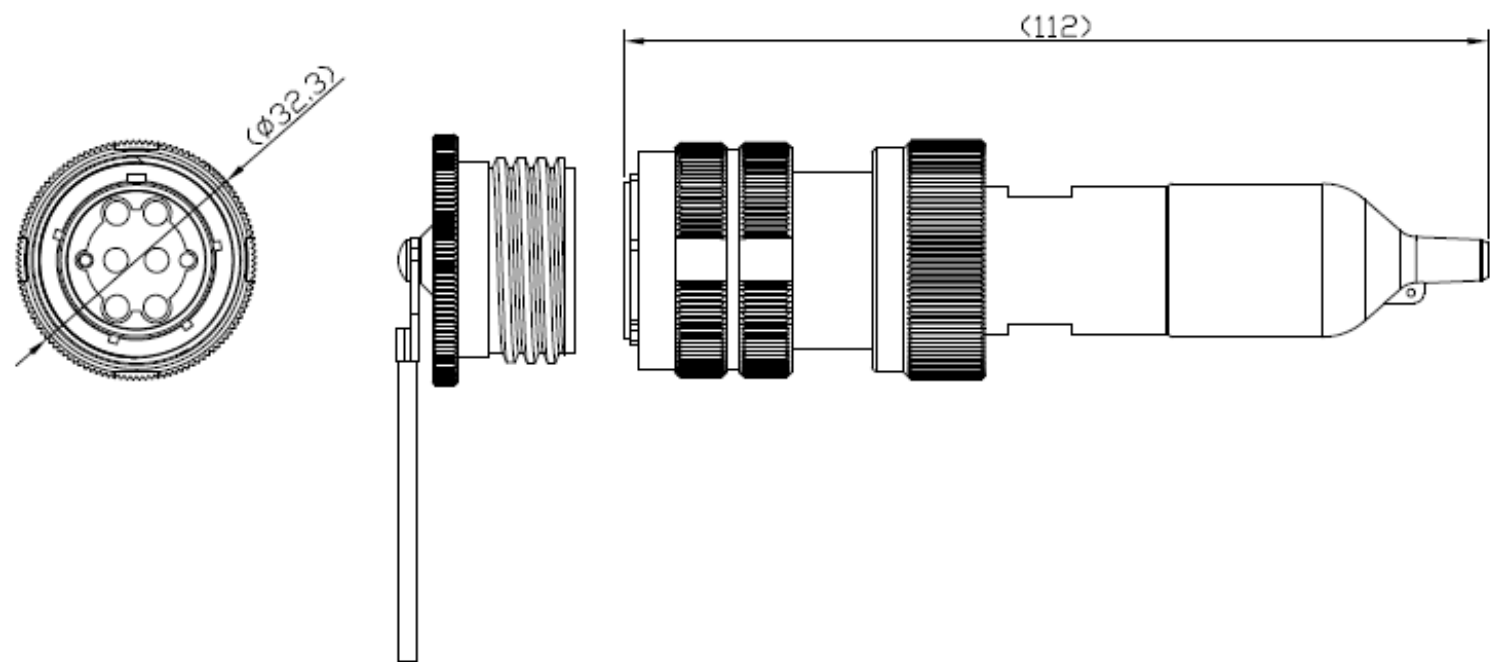


BULKHEAD SQUARE FLANGE TYPE

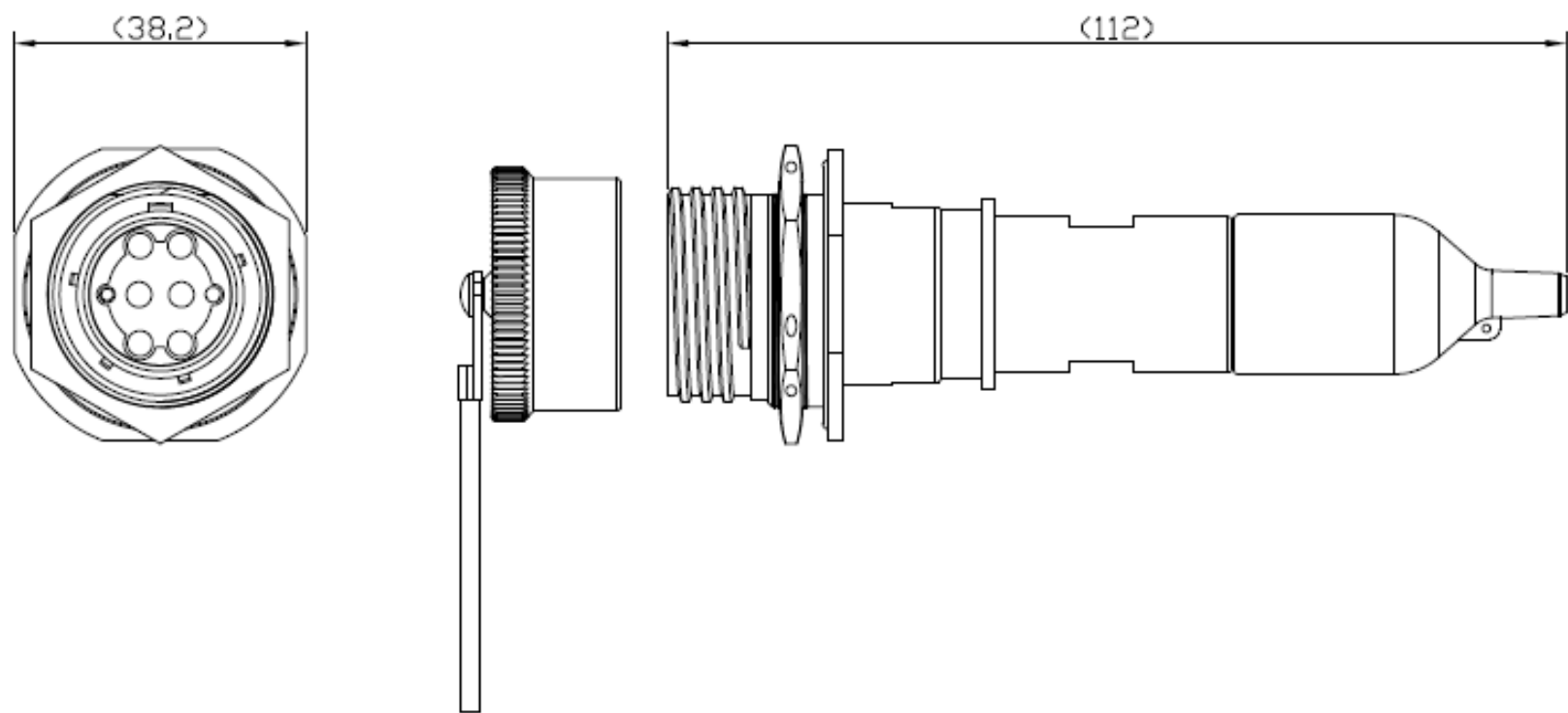


FOBEX 38999 15SHELL CONFIGURATION

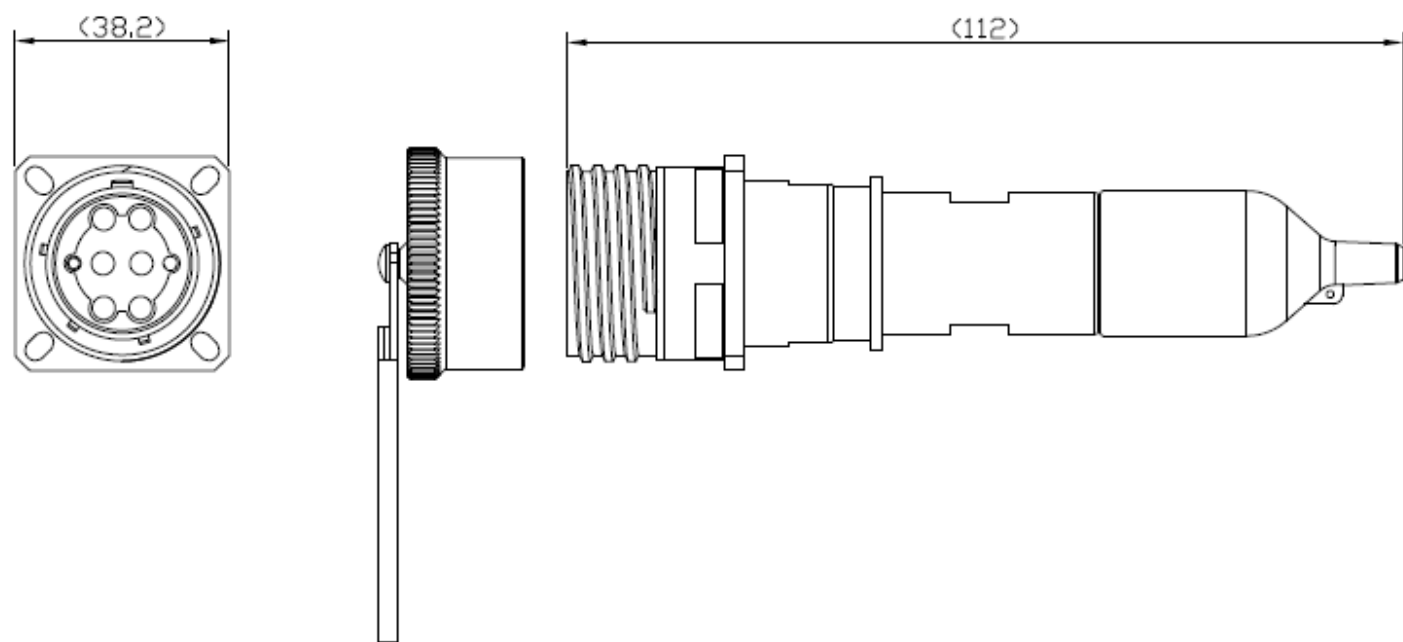
STRAIGHT PLUG TYPE



BULKHEAD D-HOLE TYPE

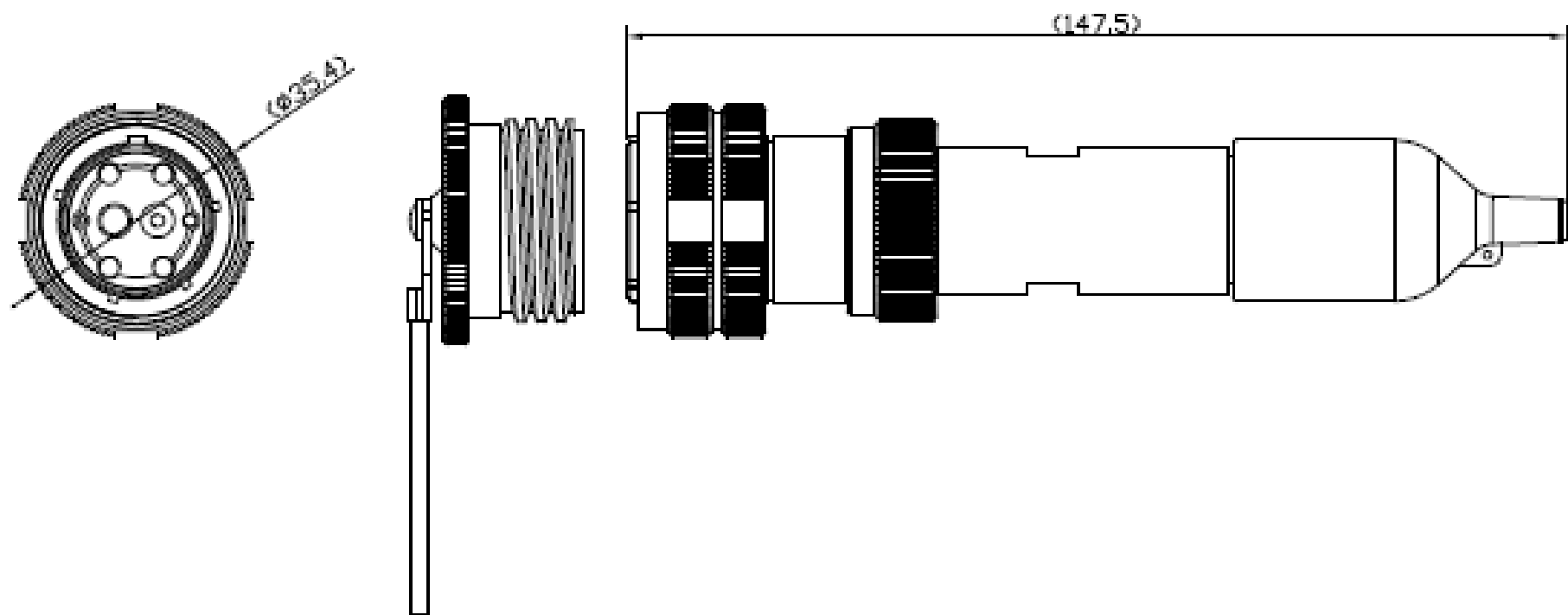


BULKHEAD SQUARE FLANGE TYPE

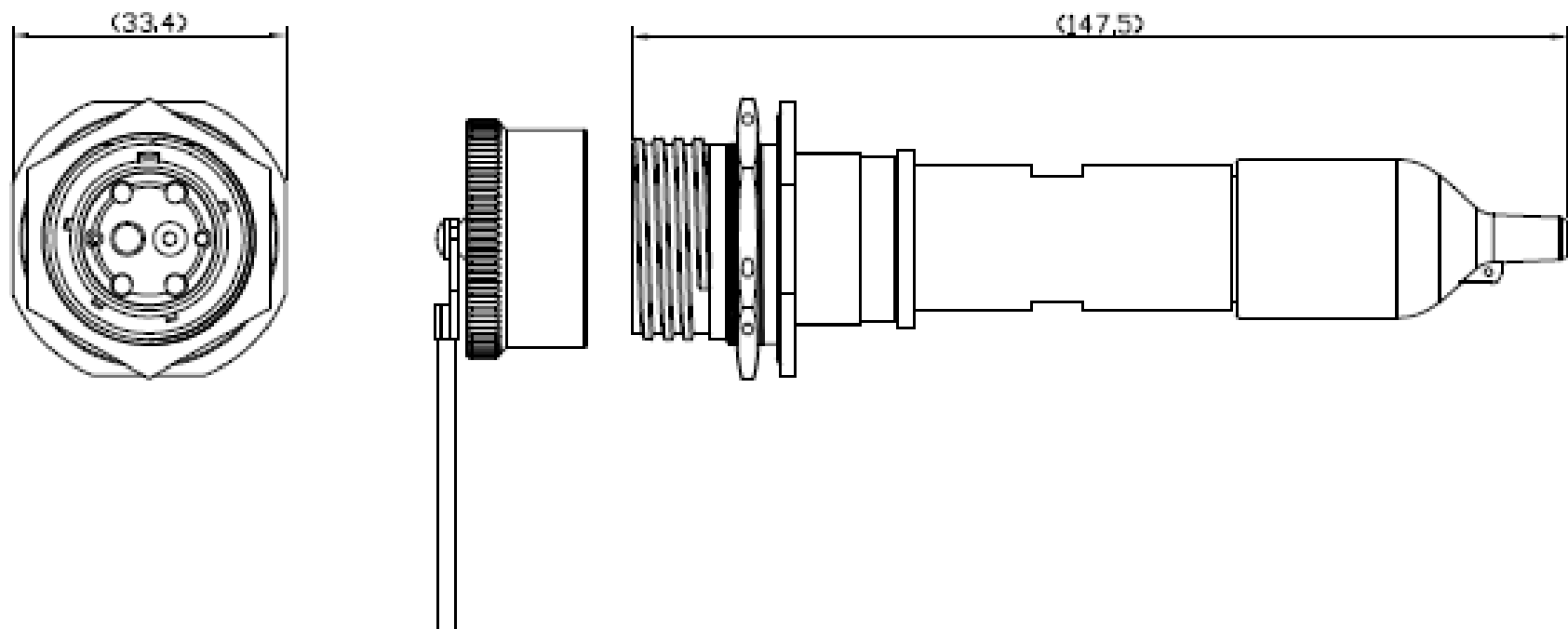


FOBEX 38999 17SHELL CONFIGURATION

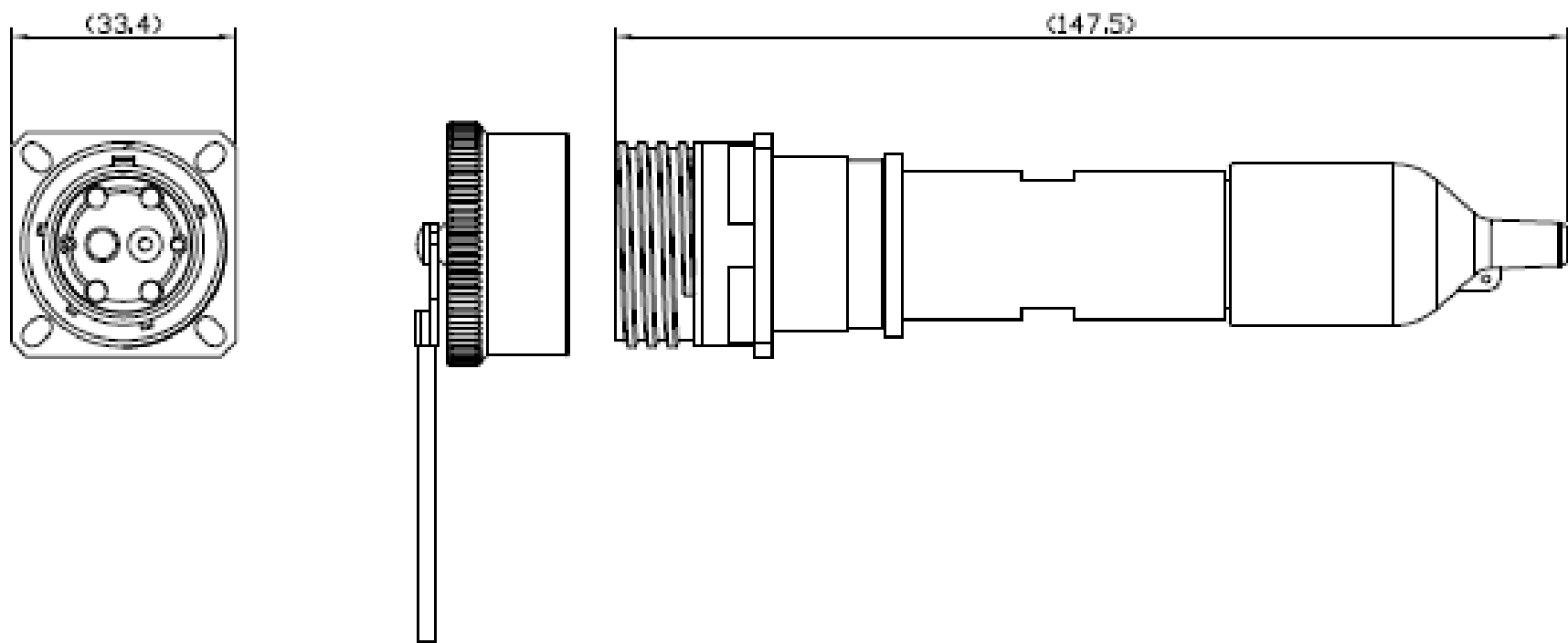
STRAIGHT PLUG TYPE



BULKHEAD D-HOLE TYPE

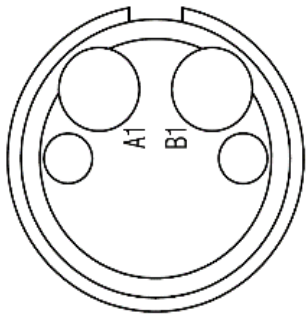


BULKHEAD SQUARE FLANGE TYPE

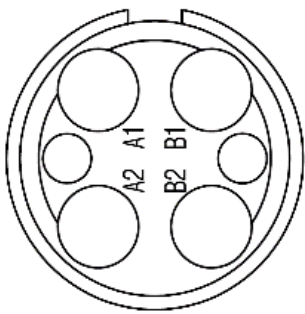


CHANNEL OPTIONS

11 Shell

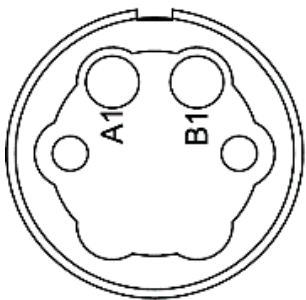


2 Channel

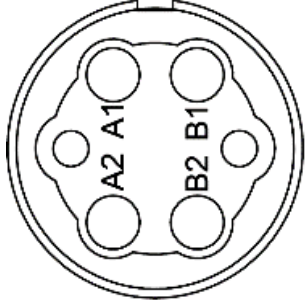


4 Channel

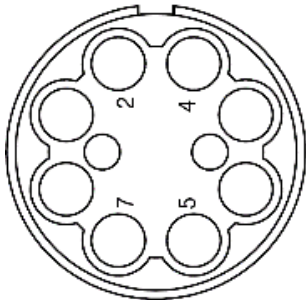
15 Shell



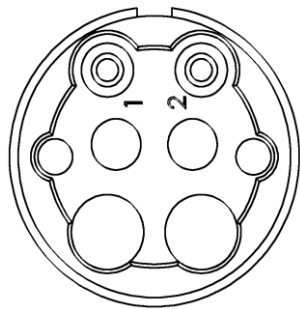
2 Channel



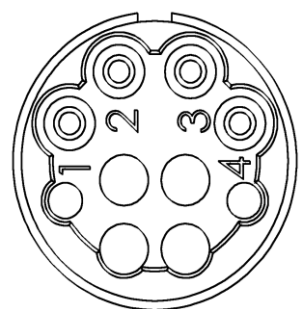
4 Channel



8 Channel

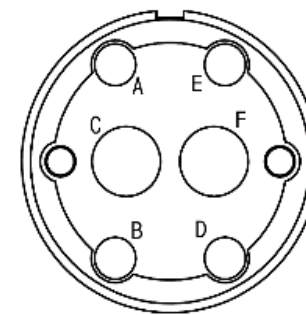


2Ch optical
4Ch Electrical

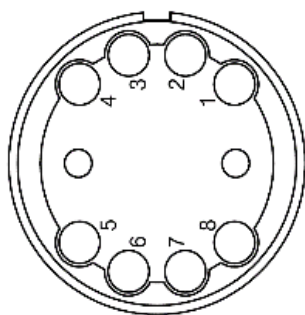


4Ch optical
4Ch Electrical

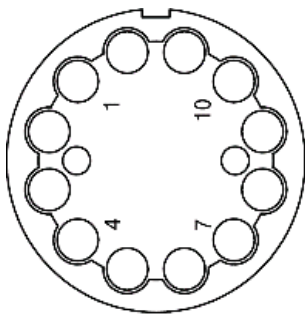
17 Shell



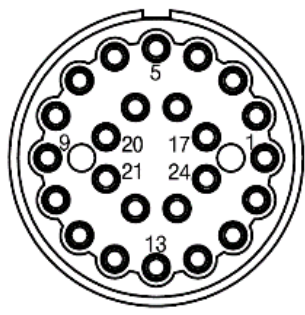
4 Channel



8 Channel



12 Channel



24 Channel

ORDERING INFORMATION

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

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

- A: CONNECTOR SIZE
- B: CONNETOR TYPE A
- C: SHELL MATERIAL
- D: NUBMER OF FIBER
- E: NUMBER OF ELECTRICAL
- F: FIBER TYPE
- G: WAVELENGTH
- H: CABLE DIAMETER
- I: DUST CAP STYLE
- J: KEY WAY
- K: CONNECTOR TYPE B
- L: CABLE LENGTH

A: CONNECTOR SIZE

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

B: CONNECTOR TYPE

- 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: SHELL MATERIAL

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

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

E:NUMBER OF ELECTRICAL

- 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 TOTAL LENGTH

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