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SFO Connector

Space Fiber Optic Connector



Space

Qualification according to
ESCC 2263010 in progress



BROCHURE 01/26 - V1.0

Customer Service
2 rue Clément ADER, Zac de Wé
08110 CARIGNAN - FRANCE

Tel : +33 (0)3 24 22 32 66
customer-service@amphenol-airlb.fr
www.amphenol-airlb.fr



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PRESENTATION

The main purpose of this connector is to transmit data.

VERY HIGH SPEED

It is suitable for use in harsh environments in and out of the atmosphere.

Due to its small size, it can be installed in all types of satellites:

SPACE SAVING

- geostationary satellites
- mini satellites
- micro satellites
- nano satellites

but also on launchers or any other space vehicle.

This connector range consists of 2 plugs and 2 receptacles with 4 polarization keys.

It can be fitted with 12, 24 or 48 MT ferrule versions.

The correct mating of this connector and fixing on structure are ensured by a screw fixing.

APPLICATIONS IN HARSH ENVIRONMENTS

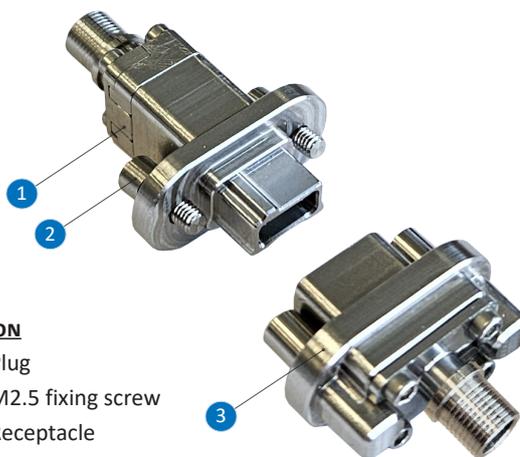
Space multimode.
MT singlemode compatible.

STANDARDS AND QUALIFICATIONS

Micro-VCM according to ECSS-Q-ST-70-02C (outgassing tests)
ECSS basic specification n°226 30 10

REACH AND ROHS

In accordance with the REACH spec.
In accordance with the RoHS spec.



CAPTION

- 1 - Plug
- 2 - M2.5 fixing screw
- 3 - Receptacle

MAIN TECHNICAL FEATURES

MATERIAL

Plugs and receptacles bodies : Stainless steel
Plug backshell : Stainless steel
Receptacle retaining plate : Stainless steel
Conductive gasket : Silicone space grade

ENVIRONMENTAL

Operating temperature : -40°C to +85°C permanent
Cycling temperature : 100 cycles -40°C / +85°C
Salt spray : 96 h

MECHANICAL

Shocks : Peak 75 g during 11 ms on 3 axis
Vibrations : Random PSD 2.2 g²/Hz between 100 and 300 Hz,
7,5 min / axis
No optical discontinuities > 1µs
Endurance : 200 cycles of mating / unmating

OPTIC FIBER (to 850 nm and 1300 nm)

IL : < 0,6 dB
RL : > 20 dB

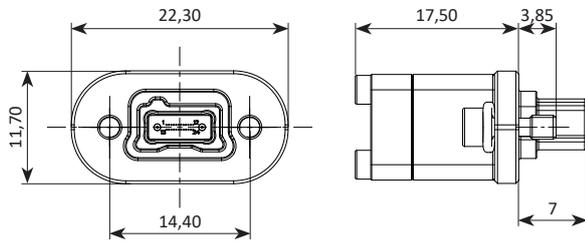
QUALIFICATION IN PROGRESS
Sanctions to be confirmed

DIMENSIONS

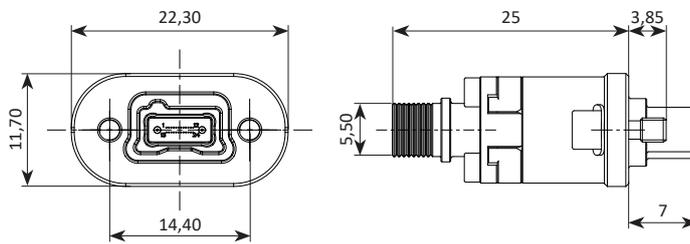
PLUGS

There are 2 versions of plug.

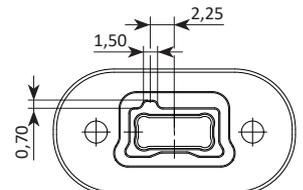
Version without «banding feature»



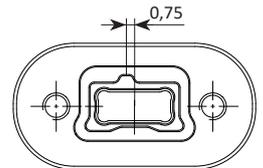
Version with «2 parts banding feature»



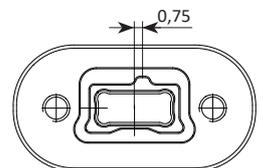
Polarizing



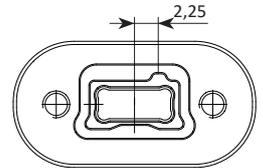
Polarization A



Polarization B



Polarization C

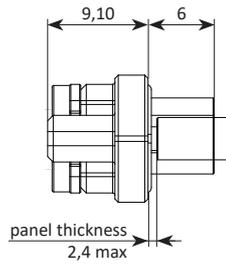
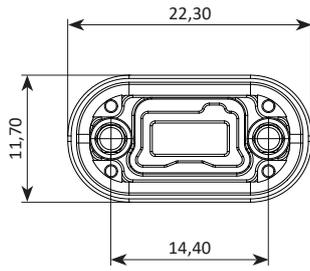


Polarization D

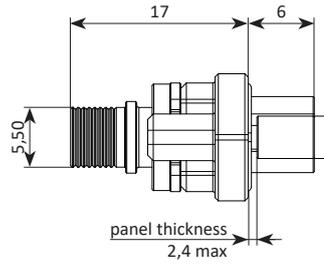
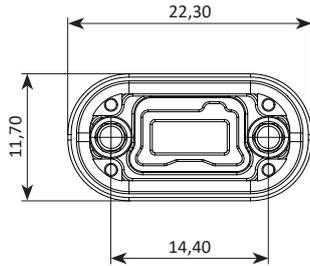
RECEPTACLES

There are 2 versions of receptacle.

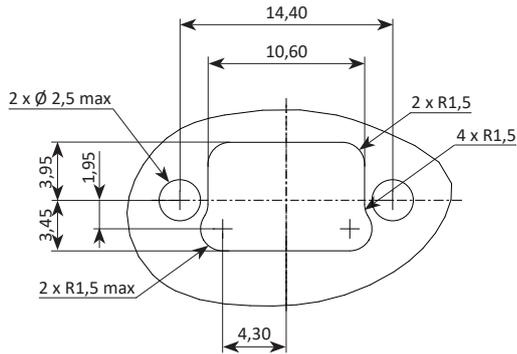
Version without «banding feature»



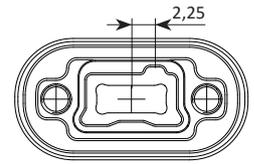
Version with «monoblock banding feature»



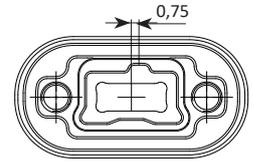
Panel cutout



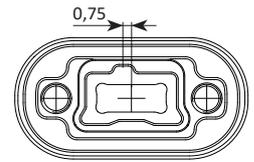
Polarizing



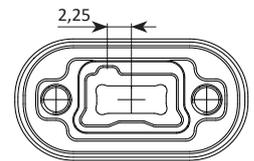
Polarization A



Polarization B



Polarization C



Polarization D

CABLE ASSEMBLIES

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Consult us with:

- your cable assemblies plans / drafts
- your specifications



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