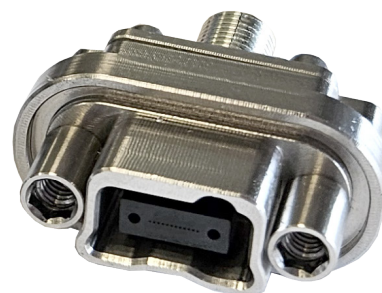


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IN PROGRESS



Qualification according to
ESCC 2263010 in progress

SFO CONNECTOR

Space Fiber Optic Connector



Brochure 04/26 - V1.0



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 (please consult us).

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

APPLICATIONS IN HARSH ENVIRONMENTS

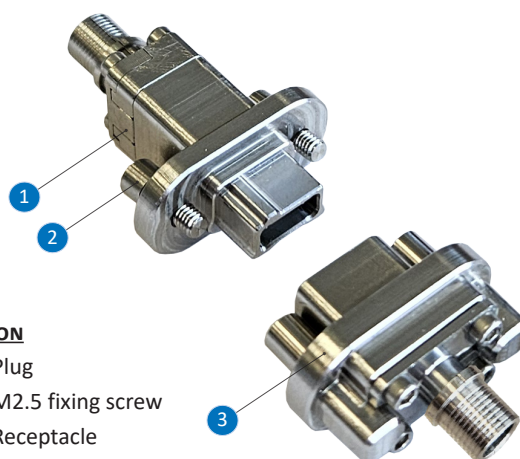
Space multimode.
MT singlemode compatible.

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

PART NUMBERING SYSTEM

MATERIAL

Stainless steel

PLATING

Without plating

SHELL

Plug
Receptacle

POLARIZATION

Polarization A, B, C or D

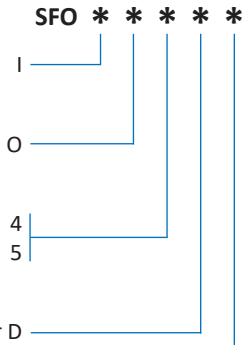
VERSION

For ribbon / flat cable, without MT ferrule kit and protective cap	000
For ribbon / flat cable, with MT ferrule 12 kit ⁽¹⁾⁽³⁾	012
For ribbon / flat cable, with MT ferrule 24 kit ⁽¹⁾⁽³⁾	024
For ribbon / flat cable, with MT ferrule 48 kit ⁽¹⁾⁽³⁾	048
For Ø3 or Ø4 or Ø5 loose cable, without MT ferrule kit, crimp band, boot and protective cap	100
For Ø4 loose round cable, with MT ferrule 12 kit ⁽²⁾	112
For Ø3 loose round cable, with MT ferrule 12 kit ⁽²⁾	113
For Ø5 loose round cable, with MT ferrule 24 kit ⁽²⁾	124
For Ø5 loose round cable, with MT ferrule 48 kit ⁽²⁾⁽³⁾	148
For Ø3 or Ø4 or Ø5 loose cable, without MT ferrule kit, crimp band, boot and protective cap	200
For Ø4 loose round cable, with MT ferrule 12 kit ⁽²⁾	212
For Ø3 loose round cable, with MT ferrule 12 kit ⁽²⁾	213
For Ø5 loose round cable, with MT ferrule 24 kit ⁽²⁾	224
For Ø5 loose round cable, with MT ferrule 48 kit ⁽²⁾⁽³⁾	248

⁽¹⁾ Protective cap included.

⁽²⁾ Crimp band, boot and protective cap included.

⁽³⁾ Please contact us.



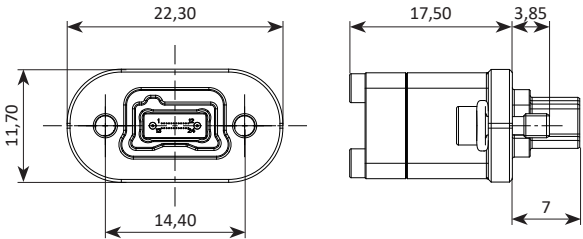
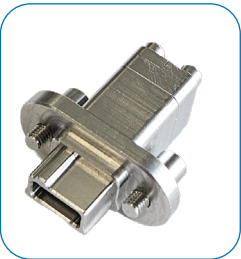
DIMENSIONS

PLUGS

There are 2 versions of plug.

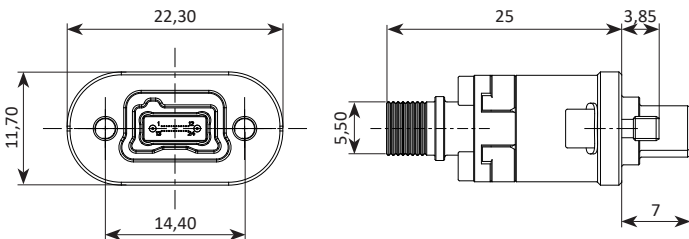
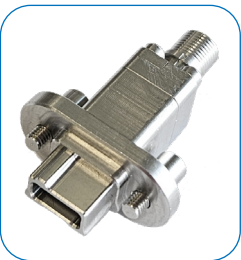
Version without «banding feature»

For ribbon / flat cable.

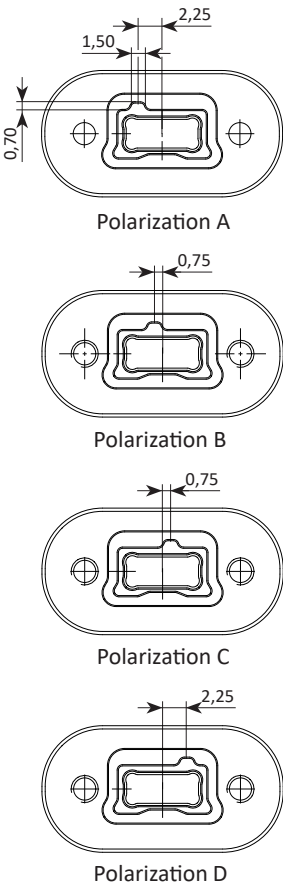


Version with «2 parts banding feature»

For loose round cable.



Polarizing

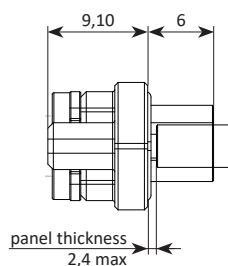
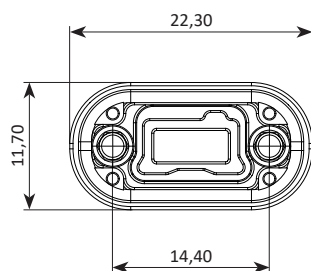


RECEPTACLES

There are 2 versions of receptacle.

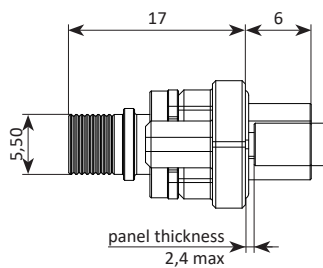
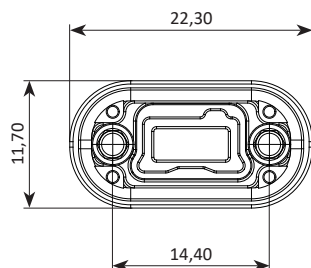
Version without «banding feature»

For ribbon / flat cable.

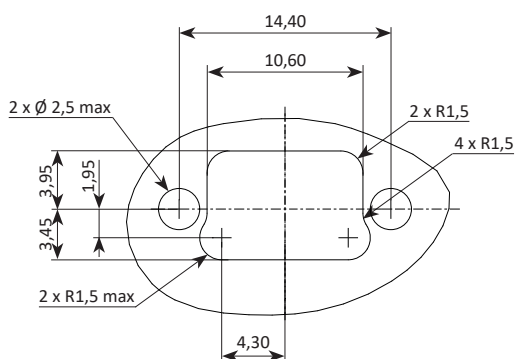


Version with «monoblock banding feature»

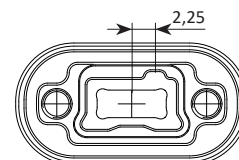
For loose round cable.



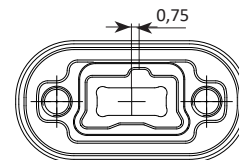
Panel cutout



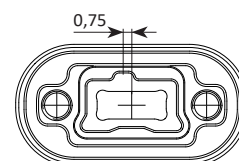
Polarizing



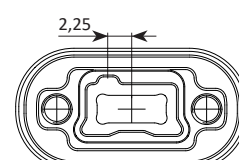
Polarization A



Polarization B



Polarization C



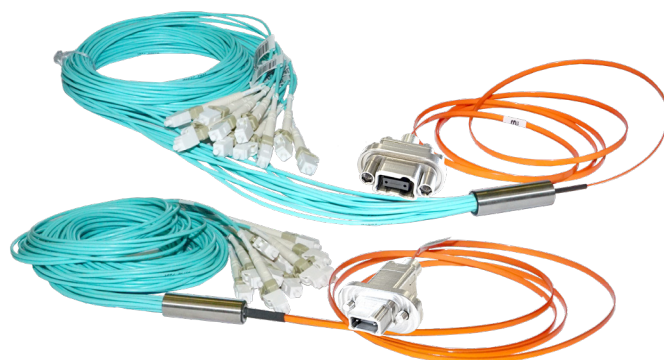
Polarization D

CABLE ASSEMBLIES

We can offer you our cable assemblies capabilities thanks to our optical workshop.

Consult us with:

- your cable assemblies plans / drafts
- your specifications



For more informations about the capabilities of our optical workshop, please flash this QR Code!