ARINC 801 Termini and 38999 Connectors





ARINC 801 Fiber Optic Connectors

The high density fiber optic connection made by SOURIAU using 1.25mm ferrules.

A qualified technology
Flight proven qualified ARINC 801 standard.

Wide range of material From composite, aluminum, to stainless steel material connectors in stock.

Quality and service 100% SOURIAU components: termini, patchcord and connectors.







Description

- Screw coupling
- Shell size from 11 to 25
- Large number of layouts from 2 to 32 termini
- Composite, aluminum, stainless steel material
- Protected by cadmium, nickel, green zinc cobalt or black zinc nickel plating
- Accessories and tools available (protective caps, backshells, etc...)

Technical features

Optical

 Multimode insertion loss (IEC 61300-3-4 method B): Typical 0.3 dB

Mechanical

• Endurance:

Minimum 100 mating/unmating operations

• Shock:

300 g, 3ms as per TIA/EIA 455-14

• Vibration:

23.1 Grms as per TIA/EIA 455-11

• Contact retention:

68N, as per SAE AS 13441 method 2009.1 for 1.8mm cable

Environmental

- Salt spray:
 - . Aluminum shell: Olive Drab Cadmium (W): 500 Hrs Nickel (F): 48 Hrs Black Zinc Nickel (Z): 500 Hrs
- . Composite shell:

Olive Drab Cadmium (J): 2000 Hrs Nickel (M): 2000 Hrs

Without plating (X): 2000 Hrs

. Stainless steel shell: Passivated (K): 500 Hrs Nickel (S): 500 Hrs

- Temperature range:
 - . Thermal cycling 50 cycles between -55°C to +125°C as per TIA/EIA 455-3
 - . Temperature life 1000 hours at 125°C as per TIA/EIA-455-4C

• Humidity:

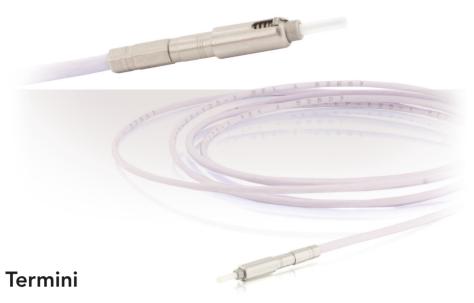
10 cycles/24h, -25 to +65°C, 90% RH as per TIA/EIA 455-5

• Altitude immersion

Pressure equivalent to 50,000 ft (15,200 m)

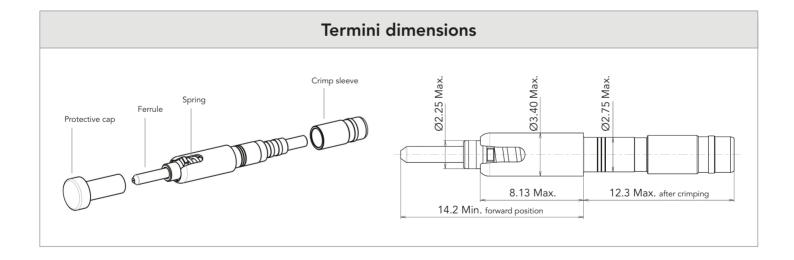


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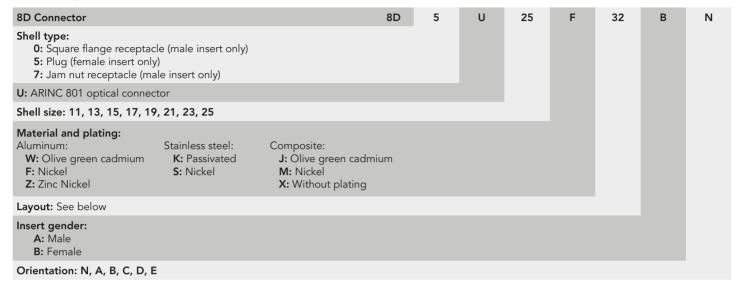
Ordering information





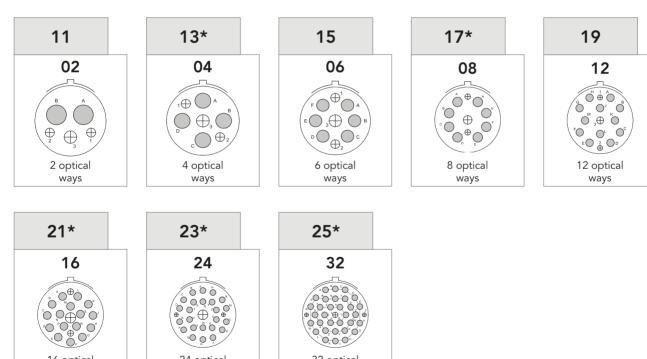
Connector

Ordering information



Layouts

Sleeve holder front view



32 optical

ways

16 optical ways

24 optical

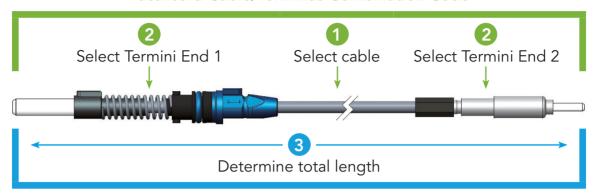
ways



^{*} Please consult us for availability.

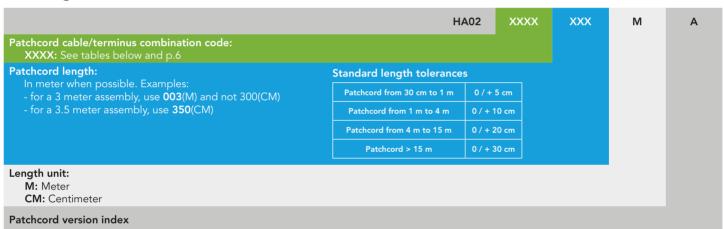
Patchcord - Your optical patchcord in 3 steps!

Patchcord Cable/Terminus Combination Code



Patchcord Length

Ordering information



1 Select Cable

SOURIAU offers a wide range of cables, from cost efficient to high performance aeronautical cables. Select your optical fiber's properties. Temperature range can be critical for your applications. If you need any help on a criteria selection, please contact us.

Application	Fiber type	Cable diameter	Temperature range	Tensile strength (N)	OM class	Attenuation (dB.km)*	Min. bend radius (mm)	Weight (kg.km)	Structure outer jacket	Standard	Cable type
	62.5/125	1.8	-55°C to +125°C	250	OM2	4.0/2.0	20	4	Tight	ABS0963	FCABLE11
FOR FLYING USE	62.5/125	0.9	-55°C to +125°C	20	OM2	4.0/2.0	10	1	NA	EN4641-101	FCABLE41
High	62.5/125	1.8	-55°C to +100°C	300	OM1	3.0/0.8	9	4.6	Semi- loose	ARINC802	FCABLE21
performance cables	50/125	1.8	-65°C to +135°C	200	OM2	2.5/1.0	20	4	Tight	ABS2293 LG	FCABLE22

^{* 1}st value @850nm for multimode cable, 2nd value @1300nm for multimode (respectivly 1300nm and 1550nm for singlemode) Consult us for other harsh environment cables.



2 Select Termini End 1 & 2 according to your selected cable, and get your final Patchcord Cable/Terminus Combination Code

Most common cables with most common contacts - For other combinations please consult us. All contacts are UPC polished otherwise specified.

Termini	ARINC801 1.25mm Cable types								
End 2									
Termini End 1	FCABLE11	FCABLE21	FCABLE22	FCABLE41					
ARINC801 1.25mm	0263	0729	0600	0642					
ELIO18WGLA	0251	0726	0603	-					
ELIO18WGSA	0254	0727	0602	-					
LC Simplex	0536	0728	0601	0643					
SC	0537	0712	0585	0688					
ST	0538	0702	0576	0689					
FC	-	0721	0593	0644					
ELIO09NGSA	-	-	-	0645					

Tooling and accessories







For further information contact us at technical-emear-ect@esterline.com (Europe - Asia - Africa) technical-americas-ect@esterline.com (North America) or visit our web site www.esterline-connection-technologies.com

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