38999 Series III, Arinc 600 & 404 Series
ELIO® AQ Adaptor

SOURIAU

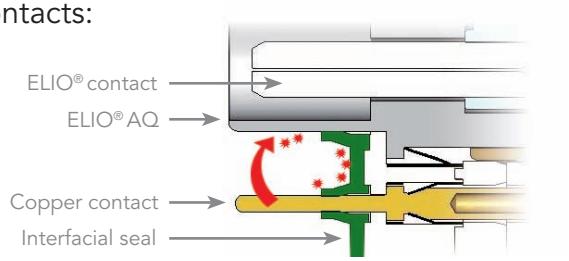


Turn Quadrax #8 Cavities Into Optic Ways

ELIO® AQ is an adaptor to enable the ELIO® contact to fit in any #8 Quadrax cavities in several types of connectors.

Hybrid ■ Mix optical and electrical signals in the same standard connector.

Reliable ■ High thermal stability from -65°C to +125°C. 500 mating cycles thanks to protection against migration of particles coming from copper contacts:



User friendly ■ No tool needed for contact installation. Easy to clean.

Esterline
Connection Technologies

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MIL-DTL-38999 Series III/EN3645

with ELIO® multimode contact and ELIO® AQ Adaptor for Quadrax #8 cavities

- ELIO® AQ is an adaptor to enable the ELIO® contact to fit in any #8 cavities
- Multiple possibilities to mix optical and electrical signals in the same insert
- Compatible with standard MIL-DTL-38999 Series III/EN3645 connectors (aluminum, composite, stainless steel, bronze)
- Design ensures ELIO® optical performance
- Environmental performance as per MIL-DTL-38999 and EN3645 standard
- Temperature range: - 65°C to +150°C (cable limitation)

Applications

- Fiber optic connector for all military and aeronautical applications wherever severe vibration or mechanical resistance are required.

ELIO® AQ

Adaptor for Quadrax #8 cavities

Insert type	Part Number
Male Insert	 ELIOAQ6PB
female Insert	 ELIOAQ6SB

Delivered with alignment boot.

Ordering information

& connector dimensions

See SOURIAU «8D Series - MIL-DTL-38999 Series III» & «ELIO® Fiber Optic Technology» catalogs.

Layouts

11

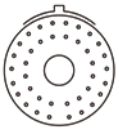
81

1#8

17

80

2 #12
2 #8

81

38 #22D
1 #8

82

2 #8

19

84

14 #22D
4 #8

21

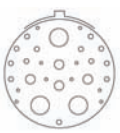
78

17 #22D
2 #8

84

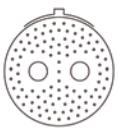
4 #8

25

80

10 #20
13 #16
4 #12, 3 #8

81

22 #22D
3 #20, 11 #16
2 #12, 3 #8

82

97 #22D
2 #8

86

40 #20
4 #16
2 #8

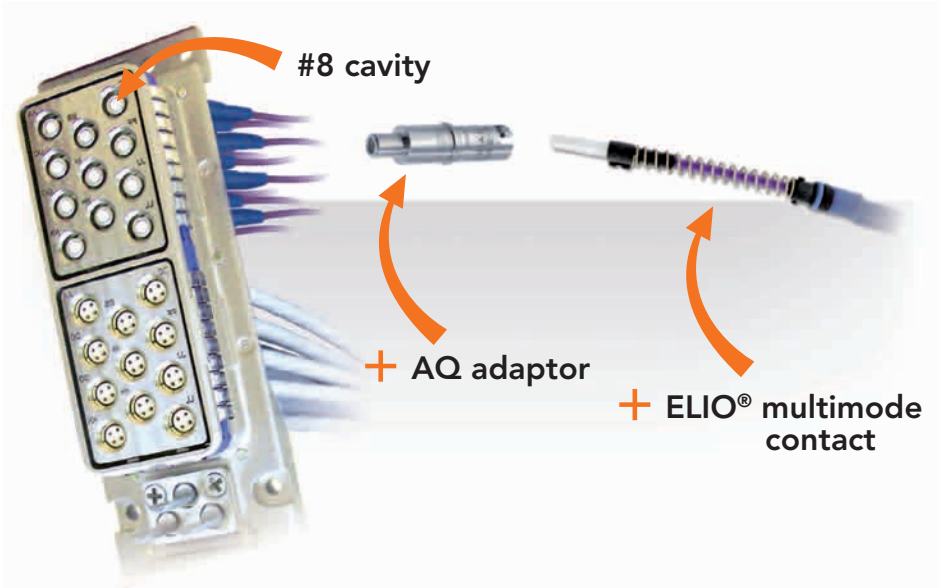
87

36 #22D
6 #8

88

8 #8

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ARINC 600 Series
with ELIO® multimode contact and ELIO® AQ Adaptor for Quadrax #8 cavities

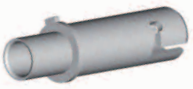
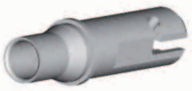
- Compatible with standard ARINC 600 Souriau connector
- Designed to ensure ELIO® contact optical performances
- Many possibilities to mix optical and electrical contact
- Temperature range: -65°C to +125°C (cable limitation)

Applications

- Fiber optic connector for all military and aeronautical applications wherever severe vibration or mechanical resistance are required.

ELIO® AQ

Adaptor for Quadrax #8 cavities

Insert type	Part Number
Male Insert	 ELIOAQ0P (rear release - delivered with alignment boot)
	 ELIOAQ1P (front release)
Female Insert	 ELIOAQ0S (rear release)

Ordering information
& connector dimensions

See SOURIAU «ARINC 600 Series» & «ELIO® Fiber Optic Technology» catalogs.

Layouts

ARINC 600 shell size 2 & 3

Cavity A, B, D & E

Q11*	118Q2	C12Q6*
		
11 #8	118 #22 2 #8	12 #12 6 #8

* Grounded metal insert

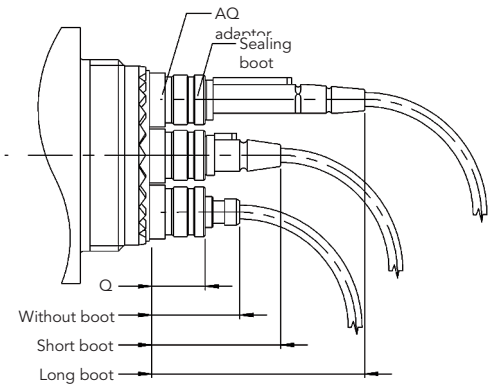
Cavity C & F

Q6*	68Q2	11Q2	62Q2	20Q4
				
6 #8	68 #22 2 #8	4 #20, 3 #16 4 #12, 2 #8	60 #22 2 #16, 2 #8	20 #20 4 #8

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Dimensions

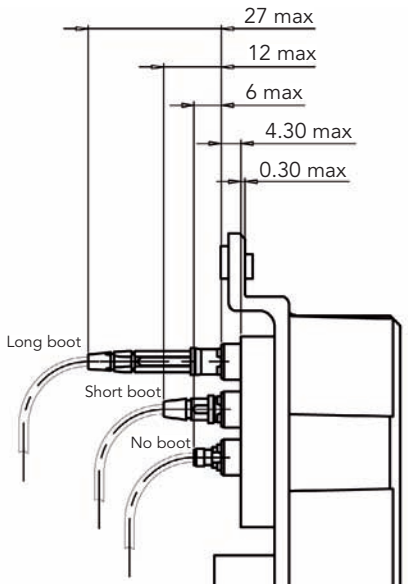
38999 Series III/EN3645 with ELIO® contacts in ELIO® AQ adaptors



	Q		Contact length					
			Long boot		Short boot		Without boot	
	Male insulator	Female insulator	Male insulator	Female insulator	Male insulator	Female insulator	Male insulator	Female insulator
Plug	12 Max	9.5 Max	34.5 Max	32 Max	19.5 Max	17 Max	12.5 Max	10 Max
Square flange receptacle	12.5 Max	10 Max	35 Max	32.5 Max	20 Max	17.5 Max	13 Max	10.5 Max
Jam nut receptacle	12 Max	9.5 Max	34.5 Max	32 Max	19.5 Max	17 Max	12.5 Max	10 Max

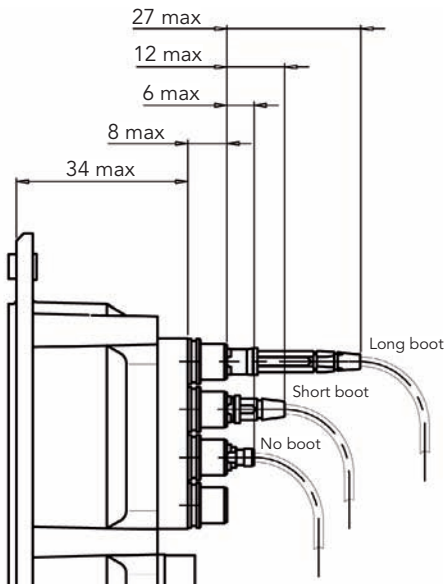
ARINC 600 with ELIO® contacts in ELIO® AQ adaptors

Plug



ELIO® contacts in ELIO® AQ adaptor for #8 cavity

Receptacle



Note: All dimensions are in millimeters (mm)

For further information contact us at contactmilaero@souriau.com
or visit our web site www.optical-connectors.com

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