• Today’s technology for Airborne & Military equipment is more and more complex, requiring the management of an increasing flow of information at greater speeds combined with the necessity to save weight.

• In response to this need, SOURIAU offers a wide range of copper and fiber optic solutions for high speed networks in harsh environments.

• Fiber optic is the best solution when high data-rate, EMI immunity and weight savings are required.

• The ELIO® terminus can handle data speeds from several Mbit/s up to several Gbit/s thanks to its excellent optical performance in the most severe environments. Its unique user-friendly design and its versatility accounts for the selection of ELIO® by major customers in various markets for their fiber optic applications.
Overview

Features & benefits:

- The same contact in many connector types ............................................................... 06
- Ruggedized & User friendly .................................................................................. 07

Range extension overview:

- Backshells ............................................................................................................. 08
- Harnesses & Patchcords ......................................................................................... 08
- Custom ELIO® connector overview .................................................................... 09
- Electro optic conversion with Protokraft .............................................................. 09

ELIO® contact:

- Technical features ................................................................................................. 10
- Ordering information .............................................................................................. 11
- Dimensions ............................................................................................................ 11
- Recommended cables ............................................................................................ 11

ELIO® AQ - Adaptor for Quadrax #8 cavities:

- Technical features ................................................................................................. 12
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### Features & benefits

#### The same contact in many connector types

**ELIO® high-density inserts**
- Up to 24 ways available in Arinc 600 and 38999 Series III/EN3645 connectors

**Standard #8 Quadrax cavity adaptor**
- ELIO® contact can fit in any #8 Quadrax cavity using ELIO® AQ adaptors
- Many optical/electrical hybrid layouts available
- Use of standard electrical connectors
- For 38999 Series III/EN3645, Arinc 600 & 404, EN3646, DOD, EN3545
ELIO® Fiber Optic Technology

Features & benefits

Ruggedized

- **Sealed technology**
  - IP67: without backshell

- **Robust butt-joint contact**
  - Flight proven A380
  - Standardized worldwide (Arinc 801 Appendix C, EN4531, Airbus qualified)
  - Withstanding the most severe vibration levels (A400M)
  - Excellent optical performances

User friendly

- **Easy to clean**
  - Easy to clean terminus without removing any part of the connector
  - Easy access to the end face of both male and female contacts
    - No risk to damage the sleeve when cleaning
    - No risk to capture dust inside the sleeve cavity

- **Easy to install - no tool needed**
  - Terminus easy to install thanks to the bayonet-boot feature

- **Easy to terminate - less than 5 min**
  - Hermaphroditic terminus (same in receptacle and plug)
  - ST®-like termination procedure
  - Automatic polishing tools available
Range extension overview

Backshells

The ELIO® contact has a specific mating sequence: the cable moves back during the mating. To prevent interference with the ELIO® mating sequence, and to ensure the best optical performance, Souriau has developed a dedicated backshell range for MIL-DTL-38999 Series III/EN3645 ELIO® connectors.

4 types of backshell compatible with standard electrical MIL-DTL-38999 Series III/EN3645 rear interface are available.

Harnesses & Patchcords

Fiber optic termination has a major impact on the product performance and therefore has to be done carefully.

Thanks to its in house fiber optics assembly line, equipped with the best control equipment, Souriau offers support from design through manufacturing on a wide range of Fiber Optic assemblies, from a simple patchcord to the most complex tactical harness.
Range extension overview

Custom ELIO® connector overview

- Hermetic $10^{-9}$ atm.cm$^3$/s
- Push Pull
- Quick Latch
- Reinforced Sealing
- Rack & Panel

Electro optic conversion with Protokraft

- Souriau and Protokraft combine Souriau’s high performance ELIO® Fiber Optic Contact with Protokraft’s Optical Transmitter and Receiver Technology to simplify avionics platform design and improve optical network performance and reliability.

- A wide range of ELIO® intermateable integrated electro optic converter available at Protokraft: www.protokraft.com
**ELIO® Fiber Optic Technology**

---

**Technical features**

**Mechanical**

- **Endurance:** Minimum 500 mating / unmating operations
- **Shock:** 300 g, 3 ms as per EN 2591-6402 method A
- **Vibration:**
  - In MIL-DTL-38999 Series III/EN3645 connectors:
    - Sine 5Hz to 3000Hz as per EN2591-6403 method A
    - Random as per EN2591-6403 method B
- **Cable cyclic flexing**: 100 cycles, load 40N as per EN2591-609
- **Cable pulling**: 111N
- **Cable torsion**: 100 cycles, load 40N as per EN2591-611

**Environmental**

- **Salt spray:** See the connector standard
- **Temperature range**: - 65°C to +125°C (1000 hours)

---

**ELIO® contact**

- Robust spring-loaded butt-joint optical contact using ST style ferrule (diameter 2.5mm)
- Contact size equivalent to a #16 contact
- Anti-rotation of the contact for better vibration withstanding and optical performance
- Boot-grommet for rear sealing and protection of the cable against excessive bending
- Compatibility with loose and tight structure cables
- High level optical performance even after aging
- Bayonet locking system: no tool needed for mounting/dismounting
- Compatible with singlemode, multimode and POF cable

---

**Resistance to fluids as per MIL-DTL-38999/EN3645 standard**

- **Fuel:** JP5
- **Mineral Hydraulic fluid:** MIL-PRF-5606 (NATO H-515)
- **Synthetic hydraulic fluid:** AS1241 (Skydrol 500B4, LD4)
- **Mineral lubricant:** MIL-PRF-7870 (NATO O-142)
- **Synthetic lubricant:** MIL-PRF-23699 (NATO O-156), MIL-PRF-7808 (NATO O-148)
- **Cleaning fluid:** MIL-PRF-87937 diluted, Propanol, white spirit, Azeotrope R113 + Methanol
- **De-icing fluid:** AMS 1424 (NATO S-742)
- **Extinguishing fluid:** Chlorobromethane
- **Cooling fluid:** Coolanol
Ordering information

<table>
<thead>
<tr>
<th>Cable external diameter:</th>
<th>ELIO 09 N G L A</th>
</tr>
</thead>
<tbody>
<tr>
<td>09: 0.9 mm or cable wider than 1.9mm with 0.9mm jacket inside</td>
<td></td>
</tr>
<tr>
<td>18: from 1.5mm to 1.9mm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contact sealing:</th>
<th>ELIO 09 N G L A</th>
</tr>
</thead>
<tbody>
<tr>
<td>W: waterproof (1.8mm +/- 0.1mm cable only)</td>
<td></td>
</tr>
<tr>
<td>N: non waterproof</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fibre type:</th>
<th>ELIO 09 N G L A</th>
</tr>
</thead>
<tbody>
<tr>
<td>G: 50 or 62.5/125 µm</td>
<td></td>
</tr>
<tr>
<td>D: 100/140 µm</td>
<td></td>
</tr>
<tr>
<td>E: 9/125 PC</td>
<td></td>
</tr>
</tbody>
</table>

*For POF cable please consult us.*

<table>
<thead>
<tr>
<th>Boot type:</th>
<th>ELIO 09 N G L A</th>
</tr>
</thead>
<tbody>
<tr>
<td>L: Long boot</td>
<td></td>
</tr>
<tr>
<td>S: Short boot</td>
<td></td>
</tr>
<tr>
<td>N: No boot (non waterproof version only)</td>
<td></td>
</tr>
</tbody>
</table>

Note: For ABS1379/EN4531 cross reference, please consult us.

---

**ELIO® contact dimensions**

All dimensions are in millimeters.

---

**Recommended cables**

SOURIAU can offer a wide range of cables in its assemblies, from low cost to high performance aeronautical cables. ELIO® contact is compatible with singlemode and multimode cable, with tactical and breakout cable. ELIO® contact is suitable with loose and tight structure cable.

**ELIO® AQ**
Adaptor for Quadrax #8 cavities

- ELIO® AQ is an adaptor to enable the ELIO® contact to fit in any #8 Quadrax cavities in several types of connectors. Therefore, any layout containing #8 cavities can be implemented with the ELIO® fiber optic contact.
- Multiple possibilities to mix optical and electrical signals in the same insert.
- Temperature range: -65°C to +125°C (cable limitation).
- 100% compliant with ELIO® contact optical performance.
- Before use, please ask for “Technical Bulletin N°160 Mounting Instructions ELIO® AQ adaptor.”

### Ordering information

<table>
<thead>
<tr>
<th>Insert type</th>
<th>Part Number</th>
<th>Drawing</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male Insert</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ELIOAQ0P</td>
<td>ARINC 404 (rear release)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ARINC 600 (rear release)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ELIOAQ1P</td>
<td>ARINC 404 (front release)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ARINC 600 (front release)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ELIOAQ4P</td>
<td>EN3646</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EN3545</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ELIOAQ6PB</td>
<td>MIL-DTL-38999 Series III</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EN3645</td>
<td></td>
</tr>
<tr>
<td>Female Insert</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ELIOAQ0S</td>
<td>ARINC 404 (rear release)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ARINC 600 (rear release)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EN3646</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EN3545</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ELIOAQ6SB</td>
<td>MIL-DTL-38999 Series III</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EN3645</td>
<td></td>
</tr>
</tbody>
</table>

(1) Delivered with alignment boot.
(2) Not qualified by Souriau.
Target your ELIO® training!

Souriau, in partnership with various training companies, offers training which can be adapted to your needs:

**Installation Module**

**Fundamentals** of fiber optics

**Theoretical** and **technological** aspects on the installation of ELIO® in an **aeronautical environment**, notably:
- Handling precautions
- Optical faces inspections
- On-board optical measurement processes

**Practical applications**

3 Days

**Cabling Module**

**Fundamentals** of fiber optic

**Theoretical** and **technological** aspects on ELIO® contacts terminating, notably:
- Handling precautions
- ELIO® cabling process
- Control process by optical measurements

Terminating practical applications during two and a half days

5 Days

For more information and a list of approved training companies, contact us at:

contactmilaero@souriau.com
ELIO® Fiber Optic Technology

Series & Extension

MIL-DTL-38999 Series III/EN3645:

- with ELIO® high density insert ................................................................. 16
- with ELIO® AQ - Adaptor for Quadrax #8 cavities ................................ 18

Arinc 600 Series:

- with ELIO® high density insert ................................................................. 21
- with ELIO® AQ - Adaptor for Quadrax #8 cavities ................................ 22

Backshells ................................................................. 24

Harnesses & Patchcords ................................................................. 28
ELIO® Fiber Optic Technology

MIL-DTL-38999 Series III/EN3645 with ELIO® high density insert

- Standard MIL-DTL-38999/EN3645 shells without shielding ring (aluminum, composite, stainless steel, bronze)
- Environmental performance as per EN4531 based on MIL-DTL-38999/EN3645
- 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.

Ground army
Civil aircraft
Marine
Military aircraft
Rotary wing

Layouts

Note: Layouts 15-06 and 21-12 limited availability, please consult us.
## Ordering information

### Composite, Aluminum & Stainless Steel

<table>
<thead>
<tr>
<th>Shell type:</th>
<th>8D</th>
<th>5</th>
<th>E</th>
<th>11</th>
<th>W</th>
<th>02</th>
<th>A</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>5: Plug</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0: Receptacle with 4-hole square flange fixing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7: Receptacle with single hole jam nut fixing (aluminum &amp; stainless steel)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Designation:**
- E: ELIO® optical connector

**Shell size:**
- 09 - 11 - 13 - 15 - 19 - 21
- 25 (aluminum & stainless steel only)

**Plating:**
- **Aluminum:**
  - Z: Zinc nickel
  - ZC: Zinc cobalt
  - W: Olive green cadmium
  - F: Nickel
- **Composite:**
  - J: Olive green cadmium
- **Stainless steel:**
  - K: Passivated
  - S: Nickel

**Material:**
- A: Bronze

**Insert type:**
- A: Male insert
- B: Female insert with ceramic alignment sleeves

**Polarization:**
- N, A, B, C, D, E
- U (universal connector for testing - mates with any other polarization)

**Specification:**
- None or 674: See table beside

### JVS Bronze

<table>
<thead>
<tr>
<th>JVS</th>
<th>E</th>
<th>6</th>
<th>A</th>
<th>11</th>
<th>02</th>
<th>A</th>
<th>N</th>
</tr>
</thead>
</table>

**Designation:**
- E: ELIO® optical connector

**Shell type:**
- 6: Plug
- 0: Receptacle with 4-hole square flange fixing
- 7: Receptacle with single hole jam nut fixing

**Material:**
- A: Bronze

**Shell size:**
- 09 - 11 - 15 - 19 - 21

**Layouts:** See page 16

**Insert type:**
- A: Male insert
- B: Female insert with ceramic alignment sleeves

**Polarization:** N, A, B, C, D, E

**Specification:**
- None or 674: See table beside

### Table: Composite, Aluminum & Stainless Steel

<table>
<thead>
<tr>
<th></th>
<th>Multimode Fiber</th>
<th>Singlemode Fiber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male Insert (A)</td>
<td>Female insert (B)</td>
<td>Male Insert (A)</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>674 (for recessed contact position)</td>
<td>674</td>
<td>674</td>
</tr>
</tbody>
</table>

### Table: JVS Bronze

<table>
<thead>
<tr>
<th></th>
<th>Multimode Fiber</th>
<th>Singlemode Fiber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male Insert (A)</td>
<td>Female insert (B)</td>
<td>Male Insert (A)</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>674 (for recessed contact position)</td>
<td>674</td>
<td>674</td>
</tr>
</tbody>
</table>

Note: For ABS/EN4531 cross reference, please consult us.
ELIO® Fiber Optic Technology

MIL-DTL-38999
Series III/EN3645
with ELIO® AQ
Adaptor for Quadrax #8 cavities

• Compatible with standard MIL-DTL-38999 Series III/EN3645 Souriau 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 +125°C (cable limitation)

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

Ordering information
• See Souriau MIL-DTL-38999 Series III catalog.

Layouts

Ground army
Civil aircraft
Marine
Military aircraft
Rotary wing
Dimensions

All dimensions are in millimeters.

<table>
<thead>
<tr>
<th>Receptacle Type 0 &amp; 7 Metal</th>
<th>Shell size 09 to 19 Max</th>
<th>Shell size 25 Max</th>
<th>Shell size 09 to 19 Max</th>
<th>Shell size 25 Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receptacle Type 0 Composite</td>
<td>20.90 Max</td>
<td>20.10 Max</td>
<td>12.50 Max</td>
<td>13.00 Max</td>
</tr>
<tr>
<td>Male insulator</td>
<td>2.50 Max</td>
<td>3.20 Max</td>
<td>4.35 Max</td>
<td>6.60 Max</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plug + Receptacle Type 0 &amp; 7 Metal</th>
<th>Shell size 09 to 19 Max</th>
<th>Shell size 25 Max</th>
<th>Shell size 09 to 19 Max</th>
<th>Shell size 25 Max</th>
<th>Shell size 09 to 11 Max</th>
<th>Shell size 13 to 25 Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug + Receptacle Type 0 Composite</td>
<td>37.00 Max</td>
<td>36.50 Max</td>
<td>52.30 Max</td>
<td>51.50 Max</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

3.17 Max (bronze)
3.20 Max (aluminum & stainless steel)
**Dimensions**

38999 Series III/EN3645 with ELIO® contacts in ELIO® high-density insert

<table>
<thead>
<tr>
<th></th>
<th>ELIO® high density insert</th>
<th>ELIO® AQ adaptors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>L</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male insulator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female insulator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Without boot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short boot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long boot</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Q</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male insulator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female insulator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short boot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long boot</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total length example**

Square flange receptacle + plug + ELIO® contacts in ELIO® high-density insert

Unmated = $C^* + E^* + L + 12 + R$

Mated = $C^* + D^* + L + 12 + R + 5mm$

* See previous page.

All dimensions are in millimeters.
Arinc 600 Series with ELIO® high density insert

- Standard ARINC 600 Souriau shell
- High density ELIO® cavities
- 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.

Layouts

High density insert - Arinc 600 shell size 2 & 3

Cavity
A, B, D & E

22 Elio

22 optical ways

Other: please consult us

Ordering information

- See Souriau Arinc 600 Series catalog.
Applications

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

Layouts

Arinc 600 Shell size 2 & 3

Cavity

A, B, D & E

<table>
<thead>
<tr>
<th>Cavity</th>
<th>11 #8</th>
<th>118 #22</th>
<th>12 #12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q11*</td>
<td>118 #22</td>
<td>12 #12</td>
<td>6 #8</td>
</tr>
<tr>
<td>118Q2</td>
<td>6 #8</td>
<td>4 #12</td>
<td></td>
</tr>
<tr>
<td>C12Q6*</td>
<td>60 #22</td>
<td>20 #20</td>
<td></td>
</tr>
</tbody>
</table>

Cavity

C & F

<table>
<thead>
<tr>
<th>Cavity</th>
<th>118 #22</th>
<th>11 Q2</th>
<th>62 Q2</th>
<th>20 Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q6*</td>
<td>68 #22</td>
<td>60 #22</td>
<td>60 #22</td>
<td>20 #20</td>
</tr>
<tr>
<td>68Q2</td>
<td>2 #8</td>
<td>2 #16</td>
<td>2 #8</td>
<td></td>
</tr>
<tr>
<td>11 Q2</td>
<td>4 #20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62 Q2</td>
<td>4 #16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 Q4</td>
<td>4 #8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ordering information

- See Souriau Arinc 600 Series catalog.

Grounded metal insert
ELIO® Fiber Optic Technology

Dimensions

Arinc 600 with ELIO® contacts

Plug

- Long boot
- Short boot
- No boot

27 max
12 max
6 max
4.30 max
0.30 max
6.20 max
6 max
12 max
27 max

Receptacle

- Long boot
- Short boot
- No boot

27 max
12 max
6 max
8 max
34 max
39 max
6 max
12 max
27 max

ELIO® contacts in ELIO® AQ adaptor for #8 cavity
ELIO® contacts in ELIO® high-density insert

All dimensions are in millimeters.
Backshells

- The ELIO® contact has a specific mating sequence: the cable moves back during the mating. To avoid the ELIO® mating sequence to be disturbed and to ensure the best optical performances, Souriau has developed a dedicated backshell range for MIL-DTL-38999 Series III/EN3645 ELIO® connectors.

- There are 4 types of backshell available compatible with standard electrical MIL-DTL-38999 Series III/EN3645 rear interface.

**Type 1:** Adaptor for use with a standard 38999 Series III/EN3645 backshell. Caution is necessary in the choice of the standard backshell: it must allow enough room to accommodate the push back of the cable during the connector mating.

**Type 2:** Backshell for straight or right angled heat shrink boot (not supplied), suitable for tactical cables or protection tubes for example. Adapted to sealed and low mechanical retention applications.

**Type 3:** Backshell with cable gland suitable for tactical cables only. Adapted to sealed and high mechanical retention applications. See table p.26 for dimension code depending on the shell size and the cable diameter.

**Type 4:** Backshell derived from Type 3 without the cable gland. Suitable to adapt specific male threaded adaptors (not supplied) for ANAMET or PMA tubes for example. See table p.26 for the size of the female thread depending on the shell size.

### Ordering information

<table>
<thead>
<tr>
<th>Type</th>
<th>8DABE</th>
<th>A</th>
<th>F</th>
<th>T3</th>
<th>F</th>
<th>01</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:</td>
<td>3</td>
<td>A</td>
<td>F</td>
<td>T3</td>
<td>F</td>
<td>01</td>
</tr>
<tr>
<td>2:</td>
<td>3</td>
<td>A</td>
<td>F</td>
<td>T3</td>
<td>F</td>
<td>01</td>
</tr>
<tr>
<td>3:</td>
<td>3</td>
<td>A</td>
<td>F</td>
<td>T3</td>
<td>F</td>
<td>01</td>
</tr>
<tr>
<td>4:</td>
<td>3</td>
<td>A</td>
<td>F</td>
<td>T3</td>
<td>F</td>
<td>01</td>
</tr>
</tbody>
</table>

**Angle:**
- A: Straight
  - For other angle, please consult us.

**Coupling ring:**
- F: Non self locking type
  - For other system, please consult us.

**Shell size:**
- 09, 11, 13, 19, 25

**Material & Plating:**
- W: Aluminum plated with Olive drab cadmium over electroless nickel - Salt spray 500 hours
- F: Aluminum plated with Electroless nickel
- A: Aluminum black anodized - Salt spray 500 hours
- B: Bronze

**Dimension code:**
- 01: Only for Type 3, see table p.26
- No digit for other types.
Backshells - Dimensions

Backshell Type 1

<table>
<thead>
<tr>
<th>Size</th>
<th>Thread A</th>
<th>ØB±0.25</th>
<th>Thread D</th>
</tr>
</thead>
<tbody>
<tr>
<td>09</td>
<td>M12x1</td>
<td>8.7</td>
<td>M12x1</td>
</tr>
<tr>
<td>11</td>
<td>M15x1</td>
<td>11.7</td>
<td>M15x1</td>
</tr>
<tr>
<td>13</td>
<td>M18x1</td>
<td>14.7</td>
<td>M18x1</td>
</tr>
<tr>
<td>19</td>
<td>M28x1</td>
<td>24.0</td>
<td>M28x1</td>
</tr>
<tr>
<td>25</td>
<td>M37x1</td>
<td>33.2</td>
<td>M37x1</td>
</tr>
</tbody>
</table>

All dimensions are in millimeters.

Backshell Type 2

Size 09, 11 & 13

<table>
<thead>
<tr>
<th>Size</th>
<th>Thread A</th>
<th>ØB±0.25</th>
<th>ØE±0.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>09</td>
<td>M12x1</td>
<td>8.7</td>
<td>16.7</td>
</tr>
<tr>
<td>11</td>
<td>M15x1</td>
<td>11.7</td>
<td>19.7</td>
</tr>
<tr>
<td>13</td>
<td>M18x1</td>
<td>14.7</td>
<td>22.7</td>
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</tbody>
</table>

Size 19 & 25

<table>
<thead>
<tr>
<th>Size</th>
<th>Thread A</th>
<th>ØB±0.25</th>
<th>ØE±0.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>M28x1</td>
<td>22.0</td>
<td>26.6</td>
</tr>
<tr>
<td>25</td>
<td>M37x1</td>
<td>32.2</td>
<td>36.8</td>
</tr>
</tbody>
</table>

All dimensions are in millimeters.
### Backshell Type 3

**Cable diameter**

<table>
<thead>
<tr>
<th>DC</th>
<th>L</th>
<th>DC</th>
<th>L</th>
<th>DC</th>
<th>L</th>
<th>DC</th>
<th>L</th>
<th>DC</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>3mm to 6mm</td>
<td>00</td>
<td>100</td>
<td>00</td>
<td>100</td>
<td>00</td>
<td>100</td>
<td>00</td>
<td>103</td>
<td>00</td>
</tr>
<tr>
<td>5mm to 8mm</td>
<td>01</td>
<td>100</td>
<td>01</td>
<td>100</td>
<td>01</td>
<td>103</td>
<td>01</td>
<td>107</td>
<td></td>
</tr>
<tr>
<td>6mm to 10mm</td>
<td>02</td>
<td>101</td>
<td>02</td>
<td>105</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8mm to 12mm</td>
<td>03</td>
<td>102</td>
<td>03</td>
<td>106</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.5mm to 12mm</td>
<td>04</td>
<td>103</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.5mm to 18mm</td>
<td>05</td>
<td>109</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Shell size / Thread**

- **Bt 09** M12x1.5
- **Bt 11** M16x1.5
- **Bt 13** M16x1.5
- **Bt 19** M20x1.5
- **Bt 25**

**Note:** Same marking as Type 4.

**DC** = Dimension Code

---

### Backshell Type 4

**Size 09, 11 & 13**

**Size 19 & 25**

**Thread A** | **ØB** | **Thread D** | **ØE**
---|---|---|---
Size 09 | M12x1 | 16.7 |
Size 11 | M15x1 | 19.7 |
Size 13 | M18x1 | 22.7 |
Size 19 | M28x1 | 26.6 |
Size 25 | M37x1 | 36.8 |

All dimensions are in millimeters.
**Total length with backshell**

Length unmated = $C^* + E^* + 43\text{mm} + T + Rt + Dt$

Length mated = $C^* + D^* + 43\text{mm} + T + Rt + Dt$

* See page 19

**Backshell use examples**

**Type 2** - heat shrink boot not supplied
- 8DABE2AF13W with a straight boot on PMA tube
- 8DABE2AF13F with a right angled boot on tactical cable

**Type 3** - supplied with cable gland
- 8DABE3AF13W01

**Type 4** - supplied without the specific adaptor
- 8DABE4AF13W with PMA tube adaptor
Interferometry

Technical measurement that calculates the topography of a surface.

The system gives in 3 dimensions the observed surface with curves similar to levels of a geographic map. As a result it is possible to get the geometric parameters of the optical contact with an extreme accuracy.

Ordering information

<table>
<thead>
<tr>
<th>Patchcord combination code:</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXXX: See tables p.30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Patchcord length:</th>
</tr>
</thead>
<tbody>
<tr>
<td>In meter when possible. Examples:</td>
</tr>
<tr>
<td>For a 3 meter assembly, use 003(M) and not 300(CM)</td>
</tr>
<tr>
<td>For a 3.5 meter assembly, use 350(CM)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length unit:</th>
</tr>
</thead>
<tbody>
<tr>
<td>M: Meter</td>
</tr>
<tr>
<td>CM: Centimeter</td>
</tr>
</tbody>
</table>

| Patchcord version index |

Note: To create your patchcord part number, select your patchcord combination code in tables p.30 (1st contact - 2nd contact - Fiber Optic cable) and the length of your assembly on 3 digits in meter (M) or centimetre (CM). You must use meter when possible (see examples above).
## Harnesses - Recommended cables

SOURIAU offers a wide range of cables, from low cost to high performance aeronautical cables.

<table>
<thead>
<tr>
<th>Application</th>
<th>Standard</th>
<th>Cable code</th>
<th>Fiber type</th>
<th>Cable diameter</th>
<th>Temperature range</th>
<th>Tensile strength (N)</th>
<th>Number of ways</th>
<th>Bandwidth limit (MHz.km)</th>
<th>Attenuation (dB.km)</th>
<th>Min. bend radius (mm)</th>
<th>Weight (kg.km)</th>
<th>Structure</th>
</tr>
</thead>
<tbody>
<tr>
<td>For flying use</td>
<td>ABS0963-003LF EN4641-102</td>
<td>FCABLE11</td>
<td>62.5/125</td>
<td>1.8</td>
<td>-55 to +125°C</td>
<td>250</td>
<td>1</td>
<td>400/1000</td>
<td>4.0 - 2.0</td>
<td>20</td>
<td>4</td>
<td>tight</td>
</tr>
<tr>
<td></td>
<td>ARINC802</td>
<td>FCABLE21</td>
<td>62.5/125</td>
<td>1.8</td>
<td>-55 to +100°C</td>
<td>300</td>
<td>1</td>
<td>200/500</td>
<td>3.0 - 0.8</td>
<td>9</td>
<td>4.6</td>
<td>semi-loose</td>
</tr>
<tr>
<td></td>
<td>EN4641-101</td>
<td>FCABLE41</td>
<td>62.5/125</td>
<td>0.9</td>
<td>-55 to +125°C</td>
<td>20</td>
<td>1</td>
<td>400/1000</td>
<td>4.0 - 2.0</td>
<td>10</td>
<td>1</td>
<td>tight</td>
</tr>
<tr>
<td></td>
<td>EN4641-301</td>
<td>FCABLE22</td>
<td>50/125</td>
<td>1.8</td>
<td>-55 to +125°C</td>
<td>200</td>
<td>1</td>
<td>400/1000</td>
<td>2.5 - 1.0</td>
<td>20</td>
<td>4</td>
<td>tight</td>
</tr>
<tr>
<td>Harsh environment</td>
<td>-</td>
<td>FCABLE31</td>
<td>62.5/125</td>
<td>1.6</td>
<td>-20 to +70°C</td>
<td>200</td>
<td>1</td>
<td>200/500</td>
<td>3.5 - 1.0</td>
<td>30</td>
<td>4</td>
<td>tight</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>FCABLE12</td>
<td>50/125</td>
<td>1.8</td>
<td>-10 to +70°C</td>
<td>200</td>
<td>1</td>
<td>1500/500</td>
<td>2.8 - 0.8</td>
<td>20</td>
<td>4</td>
<td>semi-loose</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>FCABLE51</td>
<td>62.5/125</td>
<td>0.9</td>
<td>-40 to +85°C</td>
<td>100</td>
<td>1</td>
<td>400/1000</td>
<td>8.0 - 4.0</td>
<td>10</td>
<td>1</td>
<td>semi-loose</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>FCABLE13</td>
<td>9/125</td>
<td>0.9</td>
<td>-40 to +85°C</td>
<td>10</td>
<td>1</td>
<td>No limit</td>
<td>0.6 - 0.6</td>
<td>15</td>
<td>0.4</td>
<td>tight</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>FCABLE32</td>
<td>50/125</td>
<td>5.5</td>
<td>-40 to +85°C</td>
<td>1800</td>
<td>4</td>
<td>500/500</td>
<td>2.8 - 0.8</td>
<td>55</td>
<td>21</td>
<td>tight</td>
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<tr>
<td></td>
<td>-</td>
<td>FCABLE23</td>
<td>9/125</td>
<td>5</td>
<td>-40 to +85°C</td>
<td>2000</td>
<td>4</td>
<td>No limit</td>
<td>0.6 - 0.6</td>
<td>50</td>
<td>28</td>
<td>tight</td>
</tr>
</tbody>
</table>

* 1st value at 850nm, 2nd value at 1300nm for multimode (1300nm and 1550nm for singlemode)

ELIO® is compatible with loose and tight structured cables. Tactical breakout cables are compatible with ELIO® with use of backshells.

Consult us for other harsh environment cables.

## Standard length tolerances

<table>
<thead>
<tr>
<th>Patchcord length</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 cm to 1 m</td>
<td>0 / + 5 cm</td>
</tr>
<tr>
<td>1 m to 4 m</td>
<td>0 / + 10 cm</td>
</tr>
<tr>
<td>4 m to 15 m</td>
<td>0 / + 20 cm</td>
</tr>
<tr>
<td>&gt; 15 m</td>
<td>0 / + 30 cm</td>
</tr>
</tbody>
</table>
# ELIO® Fiber Optic Technology

## Patchcord combination code

**Most common cables with most common contacts**

### With cable FCABLE11

<table>
<thead>
<tr>
<th>Contact 1</th>
<th>ELIO 18NGLA</th>
<th>ELIO 18NGNA</th>
<th>ELIO 18NGSA</th>
<th>ELIO 18WGGLA</th>
<th>ELIO 18WGSU</th>
<th>FC/PC</th>
<th>LC Simplex</th>
<th>Luxcis</th>
<th>SC</th>
<th>ST</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELIO 18NGLA</td>
<td>0346</td>
<td>0186</td>
<td>0347</td>
<td>0114</td>
<td>0183</td>
<td>0348</td>
<td>0349</td>
<td>0350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELIO 18NGNA</td>
<td>0186</td>
<td>0220</td>
<td>0221</td>
<td>0190</td>
<td>0195</td>
<td>0211</td>
<td>0215</td>
<td>0206</td>
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<td></td>
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<tr>
<td>ELIO 18NGSA</td>
<td>0347</td>
<td>0221</td>
<td>0222</td>
<td>0191</td>
<td>0196</td>
<td>0212</td>
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<tr>
<td>ELIO 18WGGLA</td>
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<td>0191</td>
<td>0111</td>
<td>0188</td>
<td>0193</td>
<td>0254</td>
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<tr>
<td>ELIO 18WGSU</td>
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<tr>
<td>FC/PC</td>
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<td>LC Simplex</td>
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<tr>
<td>Luxcis</td>
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<td>0251</td>
<td>0254</td>
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<td>0263</td>
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<tr>
<td>SC</td>
<td>0349</td>
<td>0215</td>
<td>0216</td>
<td>0110</td>
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<td>0214</td>
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<tr>
<td>ST</td>
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<td>0206</td>
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<td>0203</td>
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<td>0214</td>
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</table>

### With cable FCABLE12

<table>
<thead>
<tr>
<th>Contact 1</th>
<th>ELIO 18NGNA</th>
<th>ELIO 18WGGLA</th>
<th>ELIO 18WGSU</th>
<th>FC/PC</th>
<th>LC Simplex</th>
<th>SC</th>
<th>ST</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELIO 18NGNA</td>
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<td>0340</td>
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<tr>
<td>ELIO 18WGGLA</td>
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<td>0340</td>
<td>0284</td>
<td>0267</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELIO 18WGSU</td>
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<td>0300</td>
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<td>0270</td>
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<tr>
<td>FC/PC</td>
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<td>0301</td>
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<tr>
<td>LC Simplex</td>
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<td>0284</td>
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<tr>
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<td>ST</td>
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<td>0286</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Note:** For other combination cable/contacts please send a request to contactmilaero@souriau.com
## ELIO® Fiber Optic Technology

### With cable FCABLE31

62.5/125, dia1.6 -20°C to +70°C

<table>
<thead>
<tr>
<th>Contact 2</th>
<th>ELIO18NGLA</th>
<th>ELIO18NGNA</th>
<th>ELIO18NGSA</th>
<th>ELIO18WGLA</th>
<th>FC/PC</th>
<th>LC Simplex</th>
<th>SC</th>
<th>ST</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELIO18NGLA</td>
<td>0340</td>
<td>0153</td>
<td>0341</td>
<td>0342</td>
<td>0343</td>
<td>0344</td>
<td>0345</td>
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</tr>
<tr>
<td>ELIO18NGNA</td>
<td>0153</td>
<td>0180</td>
<td>0181</td>
<td>0178</td>
<td>0171</td>
<td>0175</td>
<td>0166</td>
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</tr>
<tr>
<td>ELIO18NGSA</td>
<td>0341</td>
<td>0181</td>
<td>0182</td>
<td>0179</td>
<td>0172</td>
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<tr>
<td>ELIO18WGLA</td>
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<td></td>
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<td>0351</td>
<td>0223</td>
<td>0352</td>
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<td>0106</td>
</tr>
<tr>
<td>FC/PC</td>
<td>0342</td>
<td>0178</td>
<td>0179</td>
<td>0223</td>
<td>0177</td>
<td>0170</td>
<td>0174</td>
<td>0165</td>
</tr>
<tr>
<td>LC Simplex</td>
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<td>0171</td>
<td>0172</td>
<td>0352</td>
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<td>0106</td>
<td>0165</td>
<td>0163</td>
<td>0164</td>
<td>0162</td>
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</table>

### With cable FCABLE41

62.5/125, dia0.9 -55°C to +125°C EN4641-101

<table>
<thead>
<tr>
<th>Contact 2</th>
<th>ELIO09NGLA</th>
<th>ELIO09NGNA</th>
<th>ELIO09NGSA</th>
<th>FC/PC</th>
<th>LC Simplex</th>
<th>SC</th>
<th>ST</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELIO09NGLA</td>
<td>0126</td>
<td>0230</td>
<td>0229</td>
<td>0228</td>
<td>0103</td>
<td>0227</td>
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<td>ELIO09NGNA</td>
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<td>0245</td>
<td>0244</td>
<td>0242</td>
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<td>0239</td>
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<tr>
<td>ELIO09NGSA</td>
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<td>0244</td>
<td>0243</td>
<td>0241</td>
<td>0234</td>
<td>0238</td>
<td></td>
</tr>
<tr>
<td>FC/PC</td>
<td>0228</td>
<td>0242</td>
<td>0241</td>
<td></td>
<td>0233</td>
<td>0237</td>
<td>0240</td>
</tr>
<tr>
<td>LC Simplex</td>
<td>0103</td>
<td>0235</td>
<td>0234</td>
<td>0233</td>
<td>0231</td>
<td>0232</td>
<td></td>
</tr>
<tr>
<td>SC</td>
<td>0227</td>
<td>0239</td>
<td>0238</td>
<td>0237</td>
<td>0232</td>
<td>0236</td>
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<tr>
<td>ST</td>
<td>0226</td>
<td></td>
<td></td>
<td>0240</td>
<td></td>
<td></td>
<td>0253</td>
</tr>
</tbody>
</table>

Note: For other combination cable/contacts please send a request to contactmilaero@souriau.com
ELIO® Fiber Optic Technology

Tooling & Accessories

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### Insertion & Extraction Tool

Tool needed for short boot and no boot contacts versions.

<table>
<thead>
<tr>
<th>Tool for contact with boot *</th>
<th>Tool for contact without boot</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Tool for contact with boot" /></td>
<td><img src="image2.png" alt="Tool for contact without boot" /></td>
</tr>
</tbody>
</table>

P/N: ELI1-0231B  
P/N: ELI1-0444A

* For long boot, tool recommended for 8 way high density insert and more.

### Filler Plug

**MIL-DTL-38999 Series III/EN3645 - for high density cavities**

<table>
<thead>
<tr>
<th>Male filler plug</th>
<th>Female filler plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELIO AFPP</td>
<td>ELIO AFPS</td>
</tr>
</tbody>
</table>

### Dummy Contact

**Arinc 600 Series - for Quadrax #8 cavities**

<table>
<thead>
<tr>
<th>Male dummy contact</th>
<th>Female dummy contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELIO A 001</td>
<td>ELIO A 002</td>
</tr>
</tbody>
</table>
**ELIO® coupler**

The ELIO® Coupler is a tool used to measure optical losses of multimode and singlemode ELIO® jumpers without introducing a bias in the measurement due to the connector’s influence and without having to pull on the cable to remove the contact from the tool.

Delivered with dust caps.

**NOT FOR USE IN FLIGHT.**

**Part number:** ELIO-T-ELIO-A

**Instruction sheet:** The operating instructions and the cleaning instructions are described in BT255A Instruction sheet.

---

**Dimensions**

All dimensions are in millimeters.

---

**ELIO® mechanical splice**

ELIO® sealed contacts terminated with the ELIO® cabling kit and connected through the ELIO® mechanical sleeve is a reliable and sealed solution to repair damaged optical links.

**Part number:** ELIOELIO

Note: Heatshrink boot and ELIO® contacts to be ordered separately.
ELIO® Fiber Optic Technology

ELIO® end face inspection tool

SOURIAU and JDSU teamed to develop a contact end face inspection tool suitable for use with ELIO® / EN4531 / ARINC801 technology.

Inspect before you connect.

Proactive inspection and cleaning can prevent poor signal performance and permanent damage to the contact end face.

Adaptors

<table>
<thead>
<tr>
<th>ELIO® female adaptor</th>
<th>ELIO® male adaptor</th>
<th>Barrel assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number: FBPT-ELIO</td>
<td>Part Number: FBPT-U25M-N</td>
<td>Part Number: FBPP-BAP3</td>
</tr>
</tbody>
</table>

To inspect female ELIO® cavities in all connector styles (Adaptors to be used with barrel assembly FBPP-BAP3)

To inspect male ELIO® cavities in all connector styles and ELIO® patchcords (Adaptors to be used with barrel assembly FBPP-BAP3)

Accessory to adapt ELIO® adaptors on the probe.

Accessories

Other accessories: please contact JDSU.
## Rugged contact inspection kit


Part Number: FBP-ELIO-1

Dual magnification (200x/400x) probe and small rugged handheld display.

Contents:
- HD3 display
- 200/400x FBP analog probe
- barrel assembly FBPP-BAP3
- female ELIO adaptor FBPT-ELIO
- male ELIO adaptor FBPT-U25M-N
- soft case

## Automated contact inspection kit


Part Number: FBP-ELIO-2

Kit to be used with a PC or laptop to determine the acceptability of optical end face through automated inspection and analysis.

Contents:
- 200/400x P5000 digital probe
- barrel assembly FBPP-BAP3
- female ELIO adaptor FBPT-ELIO
- male ELIO adaptor FBPT-U25M-N
- soft case
ELIO® adaptor for ST polishing fixture

With this adaptor, turn your ELIO® contact into an ST contact and save costs using standard ST polishing fixture.

Part Number: ELIOAST

Universal test connector

This connector can be connected to any other polarization. Ideal to limit the number of test leads. The connector is customized with a green band and with a red band on the main polarization key to facilitate the mating.

Part Number:
Build your part number using the polarization letter «U» (see page 17).

NOT FOR USE IN FLIGHT.