

SOURIAU

RAILWAY



High-Speed Interconnect Solutions

Esterline
Connection Technologies

Typical Applications



Rolling Stock



Control - Command



Energy Supply - Consumption



Information



Security

Features & Benefits

STANDARD COMPLIANT

Qualified & Certified

Reliable solutions qualified according to international railway standards. Products compliant to the EN 50467, EN 45545 / NFPA 130 and 

RELIABLE AND SAFE

Ruggedized Solution

Reliable and robust solutions resistant to high vibrations, high mating cycles and corrosion in harsh environment.

QUICK MATING

Bayonet or Lever Locking

Easy and secure mating reducing time during installation and eliminating uncertain connections .

ONE NEED ONE SOLUTION

High Speed Data Technologies

Signal, Cat6 / Cat 7 and fiber optic contacts : a large range to fullfill all your data transfer needs.

COST SAVING

Interchangeable Contact

A standardized contact solution compatible with all the connector family ranges.

Connectors



VGE1/ FER1

- **Technical data:**
 - Bayonet Coupling (VGE1)
 - Screw coupling (FER1)
 - Cat 7 contact available
 - 500 mating cycles
 - IP67
 - HL3/R22 & HL3/R23 - EN45545
 - NFPA 130 compliant
- **Advantages:**
 - Robust & compact size
- **Application:**
 - Outdoor highly dynamic application
- **Compatible technologies:**  Signal  Quadrax  Cat 7  Fiber Optic



D38999

- **Technical data:**
 - Screw coupling
 - High density layout:
 - from 3 to 128 contacts
 - -65°C to 200°C
 - Mixed Signal and Power layout
 - HL3/R22 & HL3/R23 - EN45545
- **Advantages:**
 - High contact density
- **Application:**
 - Outdoor dynamic application
- **Compatible technologies:**  Signal  Fiber Optic



Push-Pull JBX

- **Technical data:**
 - Push-Pull locking
 - IP 68 in mated and unmated conditions
 - From 2 to 30 contacts
 - Mixed signal and power layouts
- **Advantages:**
 - Easy mating & unmating
 - Space saving
- **Application:**
 - Static signaling equipment
- **Compatible technologies:**  Signal



UTS

- **Technical data:**

- Mixed Power and Signal layouts
- MPO and LC fiber optic layouts
- UV resistant
- Waterproof IP67 / IP68
- Corrosion free

- **Advantages:**

Easy and quick to install

- **Application:**

Cabin and interiors
Static signaling equipment

- **Compatible technologies:**  Signal  Fiber Optic



8525

- **Technical data:**

- Bayonet coupling
- High density layout:
from 3 to 61 contacts
- -65°C to 200°C
- Mixed Signal and Power layout
- HL3/R22 & HL3/R23 - EN45545

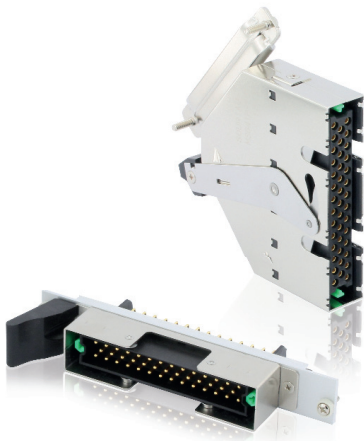
- **Advantages:**

High contact density

- **Application:**

Cabin and interiors
Closed electrical operating areas

- **Compatible technologies:**  Signal  Quadrax



MSG 3U

- **Technical data:**

- 29 pos / 41 pos / 5 Quadrax
- Compatible with 3U rack
- Quick lever with safe locking
- HL3/R22 & HL3/R23 - EN45545
NFPA 130 compliant

- **Advantages:**

Improved shielding: 360° metal housing

- **Application:**

Closed electrical operating areas
Signalling equipment

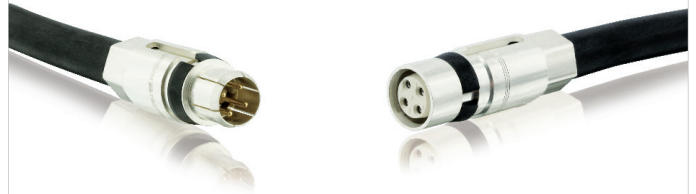
- **Compatible technologies:**  Signal  Quadrax

Contact Types



Trim Trio® contacts

- **Technical data:**
 - Machined contacts
 - #16 (Ø1.6 mm) & #20 (Ø1.0mm)
 - Gold Plating
 - Contact Rating: up to 16A
 - Contact resistance < 4mOhm
- **Associated products:**
VGE1, FER1, UTS & MSG 3U



Quadrax contacts (Cat 6)

- **Technical data:**
 - Contact resistance, following NFF 61030
 - Quadrax Contact #20: $\leq 6 \text{ m}\Omega$, $\leq 2 \text{ m}\Omega$ (cell)
 - Dielectric resistance Quadrax between cell / contacts #20: $\geq 500\text{V}$
 - Insulation resistance Quadrax:
 $\geq 3000 \text{ M}\Omega$ (contacts #20)
 - Data transmission performances VGE1/838:
Cat. 6 following IEC 11-801
 - MSG: Cat. 5 following IEC 11-801
- **Associated products:**
VGE1, FER1 & MSG 3U



Cat 7 contacts

- **Technical data:**
 - Category 7 following IEC 11-801
 - 8 Contacts #22 cell
 - Contact rating: up to 5A
 - Machined contacts (gold plated)
- **Associated products:**
VGE1 & FER1

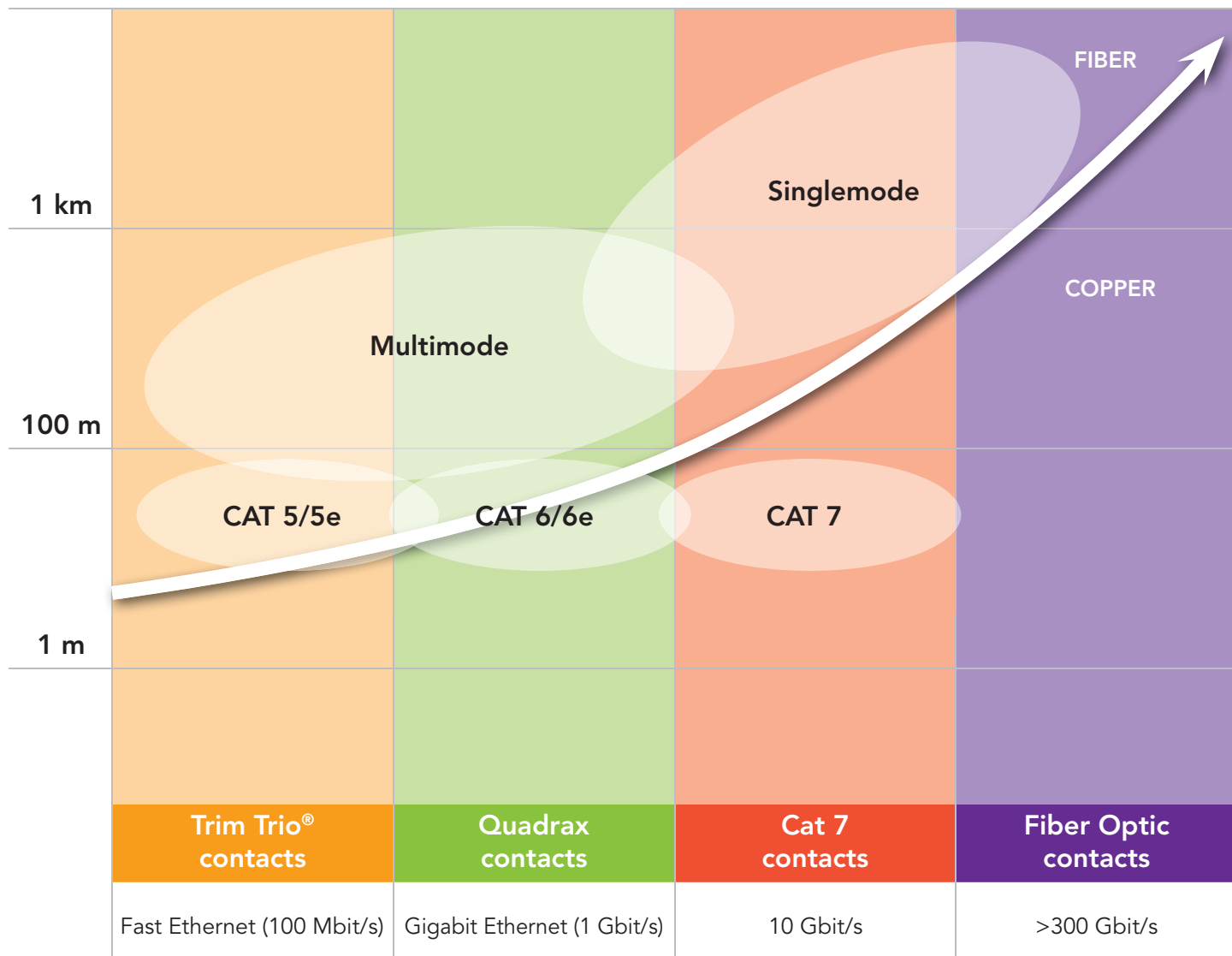


ELIO® & ELIOBEAM® fiber optic contacts

- **Technical data:**
 - Standardized EN4531,
 - Robust spring-loaded butt-joint ferrule (diameter 2.5mm)
 - Compatibility with loose and tight structure cables
 - Insertion losses:
ELIO® 0.3dB,
ELIOBEAM® 0.7db (expanded beam)
- **Associated products:**
VGE1, FER1 & D38999

Technologies Information

>30 km



One Shell, Multiple Solutions



Trim Trio®



Quadrax



Cat 7



Fiber Optic

SOURIAU Service



Flexibility & Availability

- Worldwide distribution network ensuring full availability and logistical support.
- Customized interconnect solutions are offered and supported.
- A dedicated team available for technical and engineering collaboration.
- An integrated and certified laboratory to perform tests and qualifications.



A Full Solution Offer

Overmolded Cable Assembly solutions available in standard and custom designs.



Technical Support

A dedicated team available for training and support in a short time.

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Esterline
Connection Technologies

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