Railway Interconnect Solutions

Esterline
Connection Technologies

SOURIAU

CONNECTORS ON RAILWAY EQUIPMENT

CLOSED ELECTRICAL OPERATING AREAS

CABIN AND INTERIORS

CLOSED ELECTRICAL OPERATING AREAS WITH FORCED FILTERED VENTILATION

OUTDOOR STATIC APPLICATIONS

OUTDOOR DYNAMIC APPLICATIONS

OUTDOOR HIGHLY DYNAMIC APPLICATIONS

ON-BOARD / ON-TRACK SIGNALLING EQUIPMENT

WORLDWIDE AVAILABILITY

SOURIAU: a Worldwide Market Leader

SOURIAU - Esterline Connection Technologies celebrated its 100 year anniversary in 2017; during these years SOURIAU has become a trusted name by major railway equipment manufacturers, signaling companies and their subcontractors.

SOURIAU has developed a dedicated range of ruggedized and reliable connectors for the railway market, fully compliant with railway standards, RoHS and fire smoke certified. SOURIAU is always committed to providing quality products and to support their customers with customized solutions.

Quality and customer support is our first goal

VGE1 ELIO®

MSG 3U Series

SOURIAU's Connectors on Railway Equipment

- 1. Closed electrical operating areas
- 2. Cabin and interiors
- 3. Closed electrical operating areas with forced filtered ventilation
- 4. Outdoor static applications
- 5. Outdoor dynamic applications
- 6. Outdoor highly dynamic applications
- 7. On-board / On-track signalling equipment

MB
29/44/52 contacts #16
Reinforced shielding
Secure lever locking
500 matings/unmatings

1. Closed Electrical Operating Areas

Indoor and outdoor weather protected vehicle cubicles.

SMS FLAME RETARDANT
2 to 36 contacts #16
220V – 13 A
HL3/R22 & HL3/R23 - EN45545-2
NFPA 130 compliant

UTS/UT0
3 to 23 contacts #16
110V – 13 A
HL2/R22 - HL2/R23 - EN45545-2

SMS IP
3/6 contacts #16
500V – 15 A
HL2/R22 - HL3/R23 - EN45545-2

MSG 3U Series
29/41/51 signal contacts
5 Quadrax
Low profile I/O connector
HL3/R22 & HL3/R23 - EN45545-2
NFPA 130 compliant

SMS IP
3/6/12 contacts #16
500V – 15 A
HL3/R22 - HL3/R23 -
EN45545-2
500 matings/unmatings

ALSTOM Transport / M.Spera / TOMA – C. Sasso

2. Cabin and Interiors

Examples: passenger vehicle compartment and driver cabin.

SMS FLAME RETARDANT
2 to 36 contacts #16
220V – 13 A
HL3/R22 & HL3/R23 - EN45545-2
NFPA 130 compliant
500 matings/unmatings

UTS LC & MPO
Fiber optic solution (LC or MPO)
UV resistant
IP67/IP68
Corrosion free

UT0
3 to 48 contacts #16
110V – 13 A
HL2/R22 - HL2/R23 - EN45545-2
500 matings/unmatings

UTS
3 to 23 contacts #16
110V – 13 A
HL2/R22 - HL2/R23 - EN45545-2
250 matings/unmatings

VGE1
6 to 60 contacts #20, 16, 12, 8
110V to 500V - 7 to 30A
HL3/R22 & HL3/R23 -
EN45545-2
NFPA 130 compliant
IP66/IP67
Quadrax Ethernet Cat. 6

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3. Closed Electrical Operating Areas with Forced Filtered Ventilation
Example: machinery compartment.

SMS IP
3/6 contacts #16
500V – 15 A
HL2/R22 - HL3/R23 - EN45545-2

38999
Signal, Power, Quadrax and fiber optic layouts
HL3/R22 & HL3/R23 - EN45545-2
5 shell materials

UT0
3 to 48 contacts #16
110V – 13 A
HL2/R22 - HL2/R23 - EN45545-2

UTS
3 to 23 contacts #16
110V – 13 A
HL2/R22 - HL2/R23 - EN45545-2
250 matings/unmatings

FER1
10/19/37 contacts #16
220V – 15 A
HL3/R22 & HL3/R23 -
EN45545-2
NFPA 130 compliant
IP66/IP67
Quadrax Ethernet Cat.6

4. Outdoor Static Applications

Examples: under car body, roof in non weather-protected locations.

VGE1
6 to 60 contacts #20, 16, 12, 8
110V to 500V - 7 to 30 A
HL3/R22 & HL3/R23 - EN45545-2
NFPA130 Compliant
IP66/IP67 – Quadrax Ethernet Cat.6

8525
3 to 61 contacts #20 & #16
110V – 13 A
HL3/R22 & HL3/R23 - EN45545-2
High contact density
500 matings/unmatings

VGE1 ELIO®
4/6/8 Fiber optic contacts
For multimode fiber
HL3/R22 & HL3/R23 - EN45545-2
IP66/IP67

838
7 to 61 contacts
220V to 500V – 15 to 180 A
HL2/R22 & HL3/R23 - EN45545-2
NFPA130 Compliant
IP66/IP67 – Quadrax Ethernet Cat.6

5. Outdoor Dynamic Applications

Example: inter-vehicle.

838 Elio
8 Elio Contacts
HL3/R22 & HL3/R23 -
EN45545-2
for multimode fiber
Easy to clean
IP66/ IP67

38999
High contact density
Many layouts – 110V
HL3/R22 & HL3/R23 - EN45545-2
IP67 – 5 shell materials

838 QUADRAX
2 to 4 Quadrax
HL2/R22 & HL3/R23 - EN45545-2
NFPA 130 compliant
IP66/IP67
500h salt spray resistant
Ethernet Cat.6

FER1
10/19/37 contacts #16
220V – 15 A
HL3/R22 & HL3/R23 - EN45545-2
NFPA 130 compliant
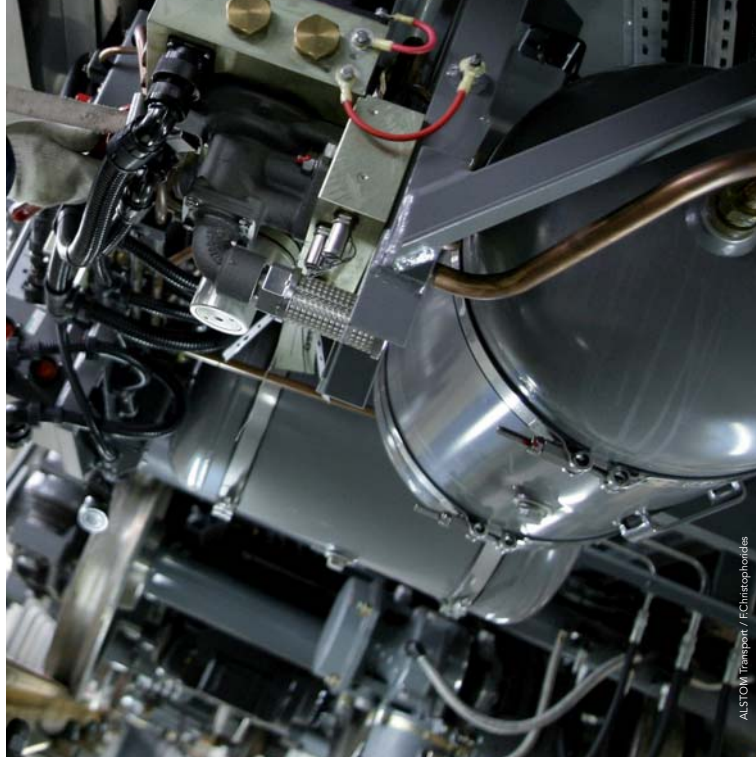IP66/IP67 – Quadrax Ethernet Cat.6

838
7 to 61 contacts
220V to 500V – 15 to 180 A
HL2/R22 & HL3/R23 - EN45545-2
NFPA130 Compliant
IP66/IP67

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VGE1 QUADRAX
1 Quadrax – Ethernet Cat.6
HL3/R22 & HL3/R23 -
EN45545-2
IP66/IP67
500h salt spray resistant

ALSTOM Transport / F.Christophorides

6. Outdoor Highly Dynamic Applications

Example: bogie.

VGE1
6 to 60 contacts #20, 16, 12, 8
110V to 500V - 7 to 30 A
HL3/R22 & HL3/R23 - EN45545-2
NFPA 130 compliant
IP66/IP67

838 QUADRAX
2 to 4 Quadrax
HL2/R22 & HL3/R23 - EN45545-2
NFPA 130 compliant
IP66/IP67
500h salt spray resistant
Ethernet Cat.6

FER1
10/19/37 contacts #16
220V – 15 A
HL3/R22 & HL3/R23 - EN45545-2
NFPA 130 compliant
IP66/IP67
Quadrax Ethernet Cat.6

838
7 to 61 contacts
220V to 500V – 15 to 180 A
HL2/R22 & HL3/R23 - EN45545-2
NFPA 130 compliant
IP66/IP67

ALSTOM Transport / P. de Szalbot

7. On-board / On-track Signalling Equipment
Examples: ATC monitoring, sensors, beacons, trackside boxes.

MB
29/44/52 contacts #16
Reinforced shielding
Secure lever locking
500 matings / unmatings

MSG 3U
29/41/51 signal contacts
5 Quadrax
Low profile I/O connector
HL3/R22 & HL3/R23 - EN45545-2
NFPA 130 compliant

VGE1/FER1
6 to 60 contacts #20, 16, 12, 8
110V to 500V - 7 to 30 A
HL3/R22 & HL3/R23 - EN45545-2
500h salt spray resistant –
Quadrax Ethernet Cat.6
NFPA 130 compliant

UTS LC & MPO
Fiber optic solution (LC or MPO)
UV resistant
IP67/IP68
Corrosion free

VGE1 ELIO®
4/6/8 Fiber optic contacts
For multimode fiber
HL3/R22 & HL3/R23
EN45545-2
IP66/IP67

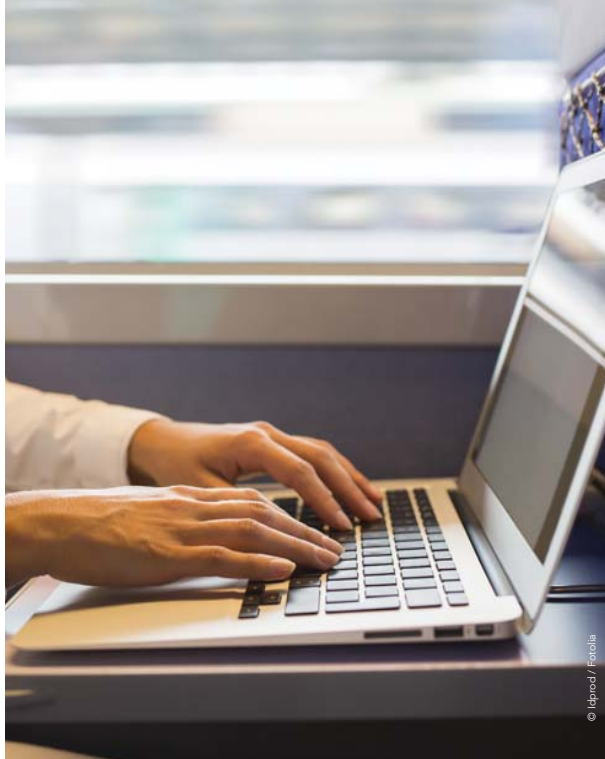## Our Differentiators

■ **EASY**
　Same contact for 10 connector series
　Same crimping tools
　Simplified process

■ **HIGH SPEED**
　Optical Fiber
　Quadrax & Cat 6 technologies

■ **ENVIRONMENT AND SAFETY**
　Compliance to international standards
　EN50467, EN45545-2, NFPA 130, RoHS,
　REACH

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SOURIAU: A High Service Level

Worldwide Availability: A Global Network with Local Presence to Serve our Customers

Reliable People, Reliable Solutions

WORLDWIDE AVAILABILITY

Reliable People, Reliable Solutions

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