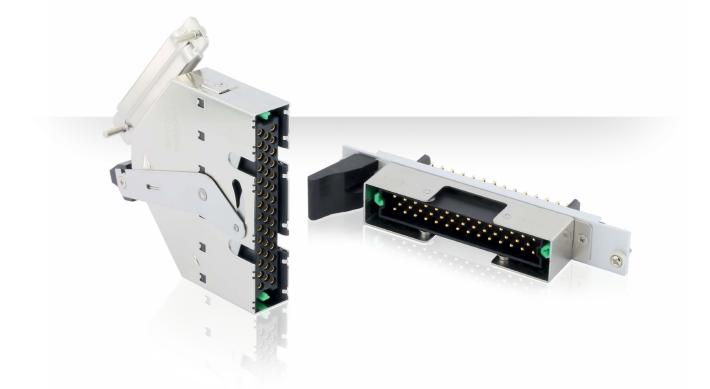


Easy & Secure Connectors for Rack Systems

Front I/O solutions for railway





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Similar product range

VGE1 & FER1 Series SMS Series 838 Series 8525 Series UTS Series UTO Series 8D (38999) Series MSM & MSO Series MB Series	 38 39 40 40 41 41 42
MB Series JBX Series	

Overview

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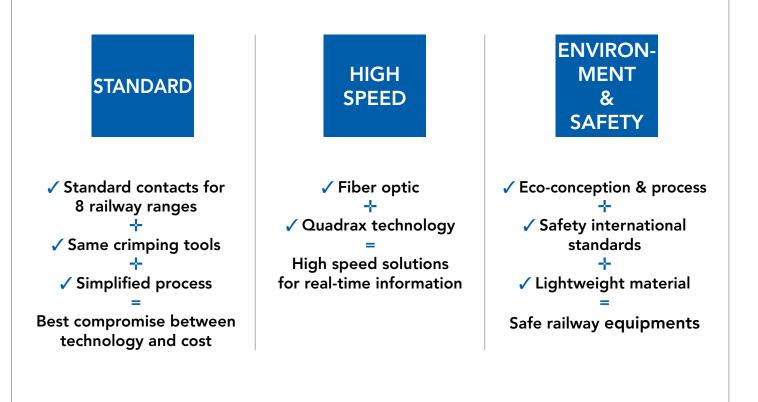
SOURIAU's railway connector range overview



SOURIAU on the railway market

SOURIAU is a recognized worldwide market leader in the design and manufacture of connectors and interconnect systems for severe environments. 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.

For more than 50 years, SOURIAU has become a trusted name by major railway equipment manufacturers, their subcontractors, also signalling and infrastructure companies. SOURIAU connectors are designed to integrate new functions such as Ethernet network, weight reduction, mixed signal-power in compliance with environmental protection. This offer is the best compromise between technology, safety, reliability and cost.



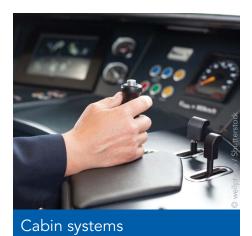
Typical applications



Signaling room



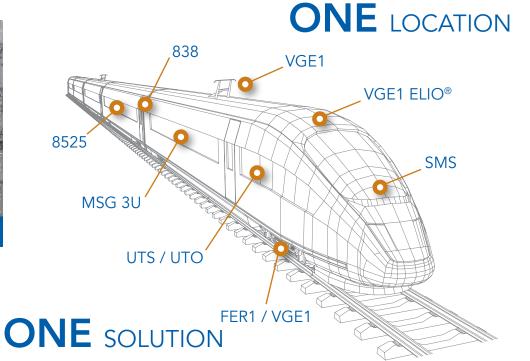
ERTMS systems





CBTC systems





Features & Benefits

EASY & SECURE MATING

SIGNAL

INTEGRIT

Quick lever with safe locking

Mating / Unmating operation is performed by a lever with safe locking. Mechanism was designed to guide the mating and to protect the contacts.

360° metal housing

Shielding is improved with a metal cover at 360° offering a full signal integrity and a good continuity to the PCB board.

FLEXIBLE GROUNDING

Multiport Ethernet

Different multiple grounding structures are possible by each port for the 5 Quadrax layout .

QUALIFIED

COST

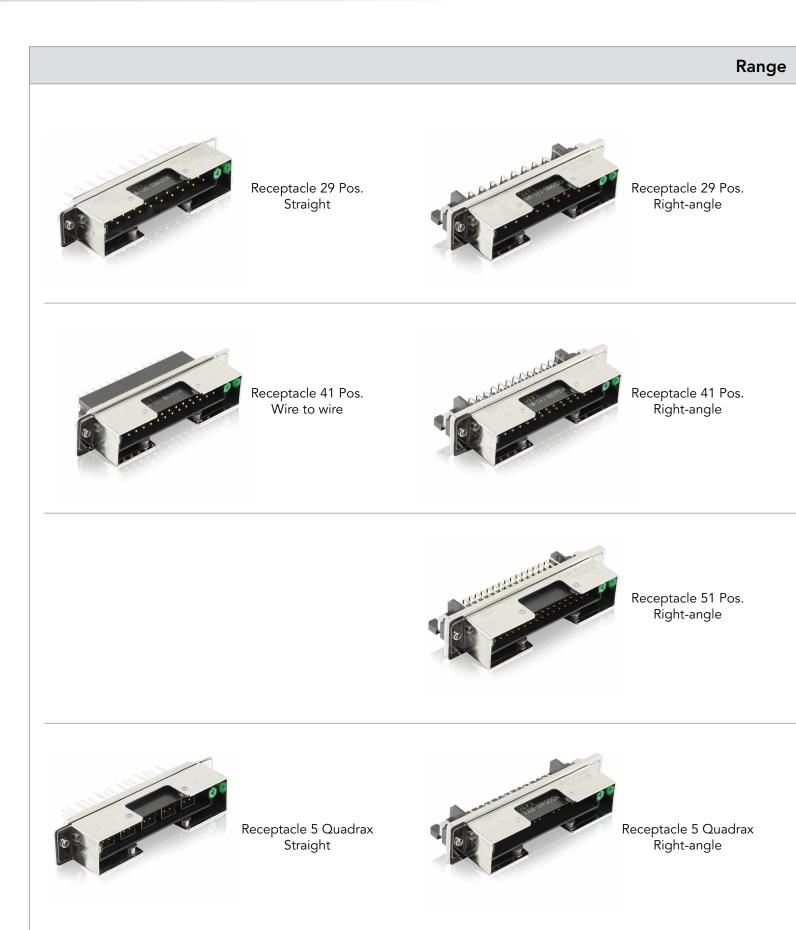
SAVINGS

Fire & smoke certified

Insert material is certified HL3/R22 & HL3/R23 following EN 45545-2 for all and is NFPA 130 compliant (except 51 pos).

One unique contact design

A standardized electrical contact interchangeable with SOURIAU railway connector ranges: MB, VGE1, SMS, UTS, UTO, except MSG 3U 51 pos and 5 Quadrax.



overview



Plug 29 Pos.



Plug 41 Pos.

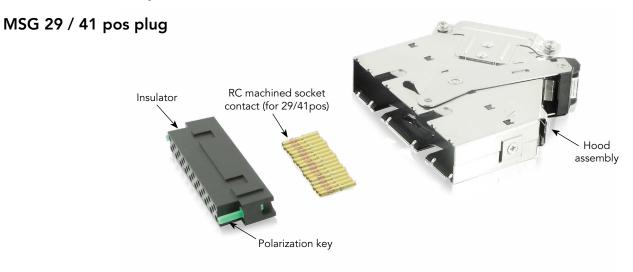


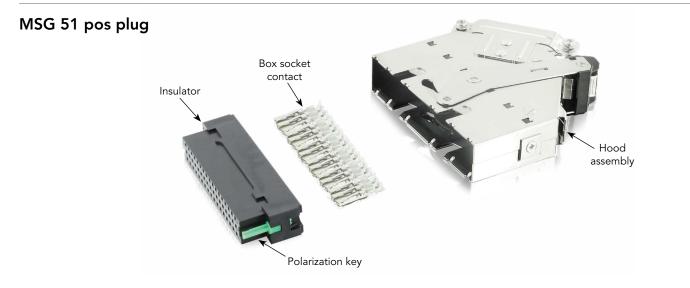
Plug 51 Pos.

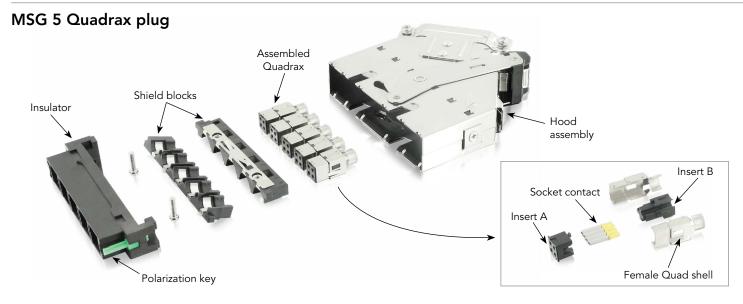


Plug 5 Quadrax

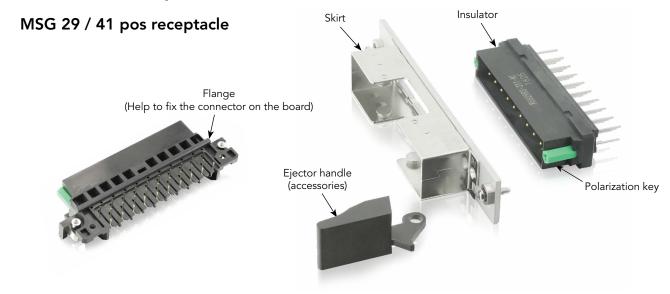
Product description



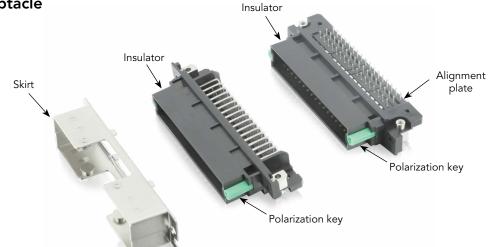




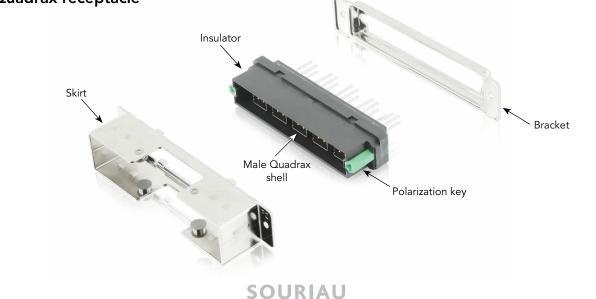
Product description (example)





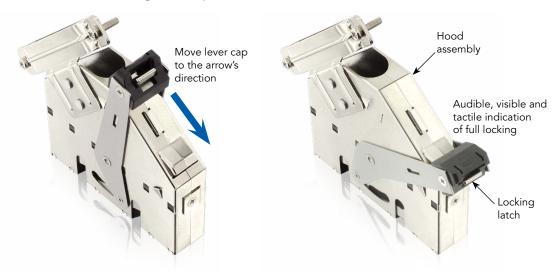


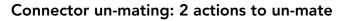
MSG 5 Quadrax receptacle

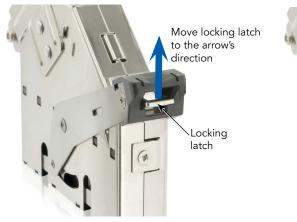


Product features

Connector mating: 1 simple action to lock









With keeping to move locking latch, operate lever cap to the arrow's direction

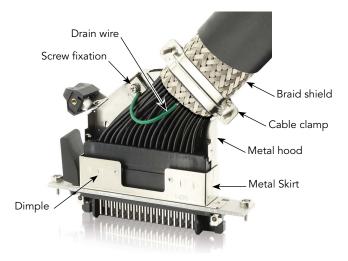






EMI shielding to PCB

Connector is enclosed by a 360° ensuring an improved shielding. MSG 3U series is designed to performed a good continuity with the PCB board.





General technical characteristics



Mechanical

- Locking system: Lever with lock
- Durability: 500 mating cycles
- Vibration: According to EN 61373 Cat1b
- Shock: According to EN 61373 Cat1b
- Coding: 72 combinations by polarization keys

Environmental

- Temperature range: -40°C to +120°C
- Salt spray resistance: 48 hours
- Sealing: IP40
- Humidity cycle test: according to
- IEC 60068-2-38
- RoHS compliance **RoHS**

Material

- Skirt & Hood: Steel, nickel plated
- Insulator:
- Hard thermoplastic
- HL3/R22 and HL3/R23 following EN45545
- NFPA 130 compliant (except 51pos)
- Contacts:
- Plug side: - 29 pos / 41 pos / 5 Quadrax : machined crimp contacts, copper alloy, gold plated
- 51 pos : Box stamped and formed contacts, Copper alloy, gold plated
- PCB receptacle side: 29 pos / 41 pos / 51 pos : stamped and formed male contacts, gold plated (0.3 µm)
- 5 Quadrax layout: machined male contacts, gold plated (0.4 µm)

Electrical

- Contact resistance (including wire resistance): 29 pos / 41 pos < 15 m Ω
- $51 \text{ pos} < 15 \text{ m}\Omega$
- Withstanding voltage:
 - 29 pos / 41 pos: 2000 V DC 51 pos: 2000 V DC
- 5 Quadrax:
 - Between each contact:1000 V DC
 - Between contact and shell: 1500 V DC
- Insulation resistance:
- 29 pos / 41 pos > 5000 M Ω (under 500 V DC) 51 pos > 2000 MΩ (under 500 V DC)
- 5 Quadrax > 2000 M Ω (under 500 V DC)
- Wire range:
 - 29 pos / 41 pos : Contact #16: 0.13 to 2 mm²
- 51 pos: 0.3 to 1.5 mm²
- Creepage and clearance:
- 29 pos: 3.075 mm
- 41 pos: 2.32 mm 51 pos : 2.3 mm
- Operating voltage:
- 300V max following EN 50-124-1 / OV2PD2 • Skirt continuity: $<5 \text{ m}\Omega$
- High Speed data Transmission performances:
- 5 Quadrax: Cat. 5 following IEC 11-801

Connectors

MSG 29 pos.	18
MSG 41 pos	22
MSG 51 pos	26
MSG 5 Quadrax	30
Panel mounting	34

MSG 29 pos.



Plug Delivered without contacts, equipped with polarization keys.

Contact type	Wire size mm ²	Description Cable directi		Part number*
		With standard cable clamp, hood with ground plate	Upward cabling	MSG29P1Y1
Machined crimp #16	0.13 - 2.0	With large cable clamp, hood with ground plate	Upward cabling	MSG29P1Y1L
		With standard cable clamp, hood with ground plate	Downward cabling	MSG29P2Y1

*Please consult us for the other combination of above components.

Receptacle

Delivered with mounted contacts, equipped with polarization keys.

Terminal type	Description	Part number*
Right angle	Fully loaded with right-angle stamped & formed male contacts, flange & fixing blocks mounted	MSG29RR1Y1M1
Straight	Fully loaded with press-in, straight-dip, machined male contacts, bracket mounted	MSG29RS3Y1M1

*Please consult us for the other combination of above components.

Skirt

Delivered without screws. Screws to be defined by the customer according to the application.

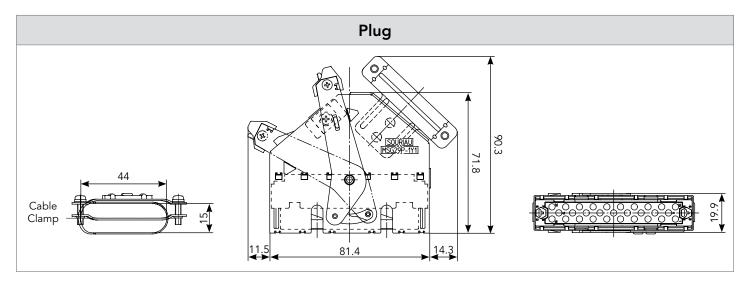
Panel type and size (1)	Cable direction	Description	Part number*
Rack panel system 3U-4HP size	Upward cabling	With 3U-4HP front panel, lower ejector handle position	MSG3USKFPF12
Rack panel system 3U-4HP size	Downward cabling	With 3U-4HP front panel, lower ejector handle position	MSG3USKFPF22
Rack panel system 6U-4HP, 9U-4HP size	Upward cabling	With ejector handle hole for right-angle type	MSG3USKFP1
Rack panel system 6U-4HP, 9U-4HP size	Downward cabling	With ejector handle hole for right-angle type	MSG3USKFP2
Panel system	Upward cabling	With bracket for right-angle type	MSG3USKBPF1
Panel system	Downward cabling	With bracket for right-angle type	MSG3USKBPF2
Panel system	Upward cabling	For straight type, without ejector handle hole	MSG3USKBP1
Panel system	Downward cabling	For straight type, without ejector handle hole	MSG3USKBP2

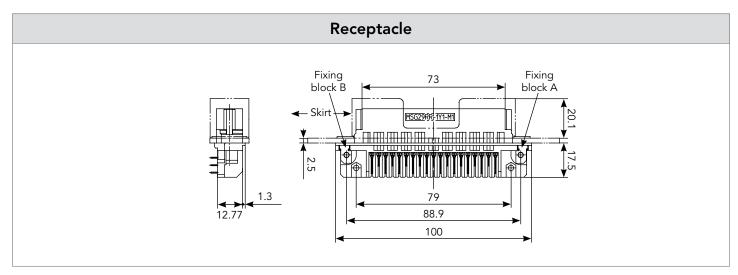
1: See panel mounting page 34 *Please consult us for the other combination of above components.

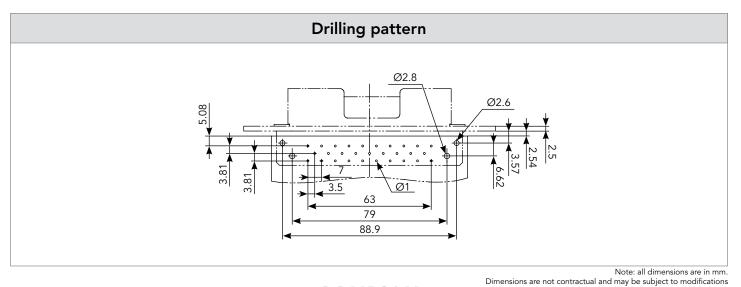


MSG 29 pos.

Dimensions





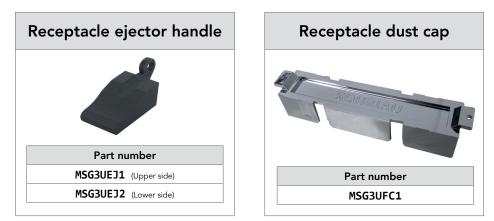


SOURIAU

tions 19 Connectors

MSG 29 pos.

Accessories



Tooling

Comboat		Crimp tool		PG check-gauge	Future stick to al		
Contact	Die	Stop bushing Hand crimp tool for Die		for Die	Extraction tool		
RC24M9K	S-9K (insulator <Ø1.4 mm)			PG-246-1K			
RC24M9K	S-10K (insulator >Ø1.4 mm)			PG-246K			
RC20M14K	S-10JK	SL-40K	SL-40K	SL-40K			
RC20M13K	S-10K		M20S-1J	PG-246K	RX20-31J		
RC20M12K	S-10K						
RC16M23K	S-3D1K	SL-39K		PG-214K			
RC14M50K	S-3-14K	2L-39K		PG-246-2K			



MSG 29 pos.

Contacts for plug

Contact type	Plating	AWG	mm²	Max wire Ø	Max insulator Ø	Part number female contact
Machined crimp #16 - Ø 1.6 mm		26-24	0.13 - 0.2	0.80	1.60	RC24M9K
		22-20	0.32 - 0.52	1.18	2.60	RC20M14K
	Calal O Aura	22-20	0.32 - 0.52	1.18	1.80	RC20M13K
	' GOIG U 40m	22-20	0.32 - 0.52	1.18	2.20	RC20M12K
		20-16	0.5 - 1.5	1.80	3.00	RC16M23K
		16-14	1.5 - 2.0	2.30	3.20	RC14M50K

Note: all dimensions are in mm

MSG 41 pos.



Plug

Delivered without contacts, equipped with polarization keys.

Contact type	Wire size mm ²	Description	Cable direction	Part number*	
		With standard cable clamp, hood with ground plate	Upward cabling	MSG41P1Y1	
		With large cable clamp, hood with ground plate	Upward cabling	MSG41P1Y1L	
Machined crimp #16	0.13 - 2.0	ined crimp #16 0.13 - 2.0	With standard cable clamp, hood without ground plate	Downward cabling	MSG41P2Y0
		With standard cable clamp, hood with ground plate	Downward cabling	MSG41P2Y1	
		With large cable clamp, hood with ground plate	Downward cabling	MSG41P2Y1L	

*Please consult us for the other combination of above components.

Receptacle Equipped with polarization keys.

Terminal type	Description	Part number*
Right angle	Fully loaded with right-angle stamped & formed male contacts, flange and fixing blocks mounted	MSG41RR1Y1M1
Wire to wire	No contacts loaded and bracket mounted	MSG41RW1Y0M2
Wire to wire	Fully loaded with straight-dip, machined male contacts and bracket mounted	MSG41RW1Y1M2

*Please consult us for the other combination of above components.

Skirt

Delivered without screws. Screws to be defined by the customer according to the application.

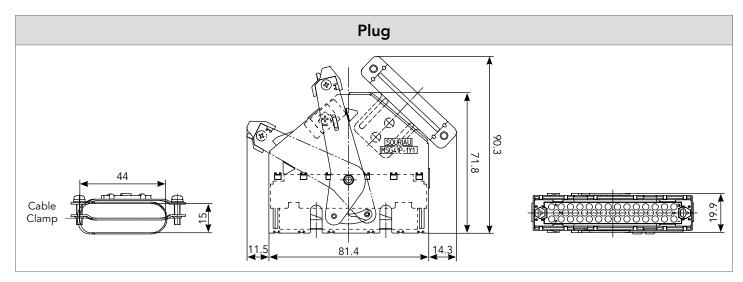
Panel type and size (1)	Cable direction	Description	Part number*
Wire-to Wire	Upward cabling	Without ejector handle hole for wire-to-wire type	MSG3USKBP1
Wire-to Wire	Downward cabling	Without ejector handle hole for wire-to-wire type	MSG3USKBP2
Rack panel system 3U-4HP size	Upward cabling	With 3U-4HP front panel, lower ejector handle position	MSG3USKFPF12
Rack panel system 3U-4HP size	Downward cabling	With 3U-4HP front panel, lower ejector handle position	MSG3USKFPF22
Rack panel system 6U-4HP, 9U-4HP size	Upward cabling	With ejector handle hole for right-angle type	MSG3USKFP1
Rack panel system 6U-4HP, 9U-4HP size	Downward cabling	With ejector handle hole for right-angle type	MSG3USKFP2
Panel system	Upward cabling	With bracket for right-angle type	MSG3USKBPF1
Panel system	Downward cabling	With bracket for right-angle type	MSG3USKBPF2

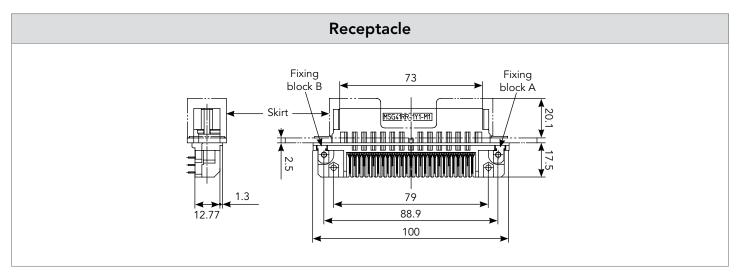
1: See panel mounting page 34 *Please consult us for the other combination of above components.

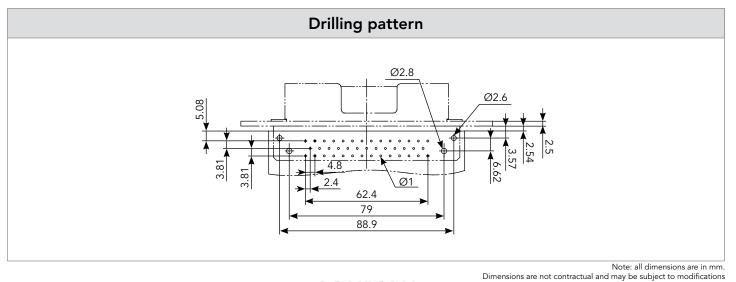


MSG 41 pos.

Dimensions





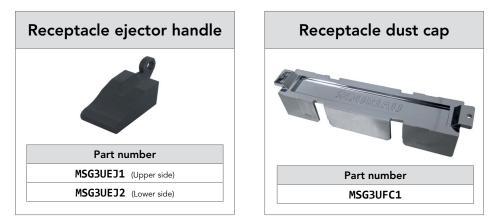


SOURIAU

Connectors

MSG 41 pos.

Accessories



Tooling

Comboat		Crimp tool		PG check-gauge	Future stick to al
Contact	Die	Stop bushing	Hand crimp tool	for Die	Extraction tool
RC24M9K	S-9K (insulator <Ø1.4 mm)			PG-246-1K	
RC24M9K	S-10K (insulator >Ø1.4 mm)			PG-246K	
RC20M14K	S-10JK	SL-40K			
RC20M13K	S-10K		M20S-1J	PG-246K	RX20-31J
RC20M12K	S-10K				
RC16M23K	S-3D1K	SL-39K		PG-214K	
RC14M50K	S-3-14K	2L-34K		PG-246-2K	



MSG 41 pos.

Contacts for plug

Contact type	Plating	AWG	mm²	Max wire Ø	Max insulator Ø	Part number female contact
		26-24	0.13 - 0.2	0.80	1.60	RC24M9K
		22-20	0.32 - 0.52	1.18	2.60	RC20M14K
Machined crimp	Cald 0 4.ms	22-20	0.32 - 0.52	1.18	1.80	RC20M13K
#16 - Ø 1.6 mm	Gold 0.4µm	22-20	0.32 - 0.52	1.18	2.20	RC20M12K
		20-16	0.5 - 1.5	1.80	3.00	RC16M23K
		16-14	1.5 - 2.0	2.30	3.20	RC14M50K

Note: all dimensions are in mm

Contacts for wire-to-wire type of receptacle

Contact type	Plating	AWG	mm²	Max wire Ø	Max insulator Ø	Part number male contact
		26-24	0.13 - 0.2	0.80	1.60	RM24M9K
		22-20	0.32 - 0.52	1.18	2.60	RM20M14K
Machined crimp	Cald 0 4.ms	22-20	0.32 - 0.52	1.18	1.80	RM20M13K
#16 - Ø 1.6 mm	Gold 0.4µm	22-20	0.32 - 0.52	1.18	2.20	RM20M12K
		20-16	0.5 - 1.5	1.80	3.00	RM16M23K
		16-14	1.5 - 2.0	2.30	3.20	RM14M50K

Note: all dimensions are in mm

MSG 51 pos.



Plug Delivered without contacts, equipped with polarization keys.

Contact type	Wire size mm ²	Description	Cable direction	Part number*
Champion and S. farmon and	0.2 1 5	With standard cable clamp, hood with ground plate	Upward cabling	MSG51P1T1
Stamped & formed	0.3 - 1.5	With standard cable clamp, hood with ground plate	Downward cabling	MSG51P2T1

*Please consult us for the other combination of above components.

Receptacle

Delivered with mounted contacts, equipped with polarization keys.

Terminal type	Description	Part number*
Right angle	Fully loaded with blade contacts, flange and fixing blocks mounted	MSG51RR1T1
*Please consult us for the other combination of	above components	

ase consult us for the other combination of above components

Skirt

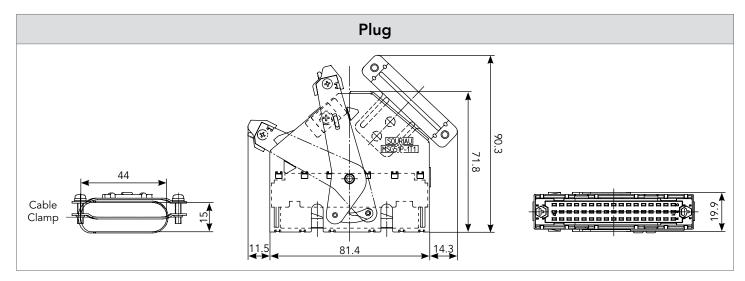
Delivered without screws. Screws to be defined by the customer according to the application.

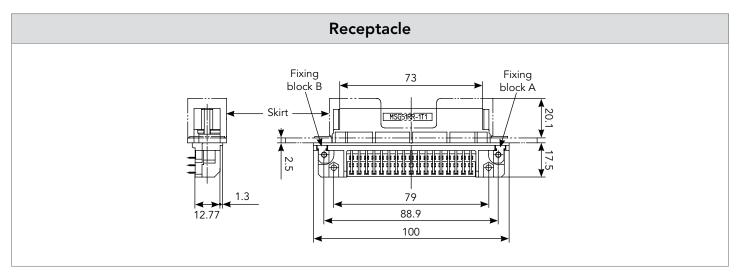
Panel type and size (1)	Cable direction	Description	Part number*
Rack panel system 3U-4HP size	Upward cabling	With 3U-4HP front panel, lower ejector handle position	MSG3USKFPF12
Rack panel system 3U-4HP size	Downward cabling	With 3U-4HP front panel, lower ejector handle position	MSG3USKFPF22
Rack panel system 6U-4HP, 9U-4HP size	Upward cabling	With ejector handle hole for right-angle type	MSG3USKFP1
Rack panel system 6U-4HP, 9U-4HP size	Downward cabling	With ejector handle hole for right-angle type	MSG3USKFP2
Panel system	Upward cabling	With bracket for right-angle type	MSG3USKBPF1
Panel system	Downward cabling	With bracket for right-angle type	MSG3USKBPF2

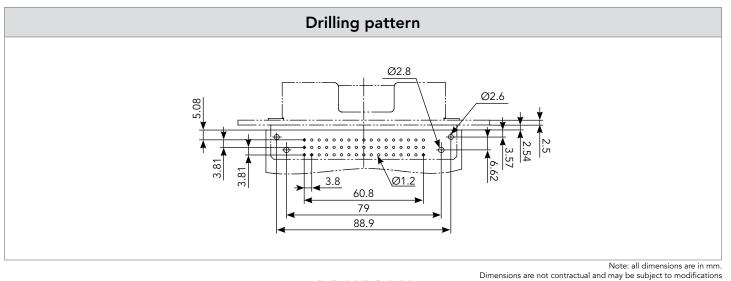
1: See panel mounting page 34 *Please consult us for the other combination of above components.

MSG 51 pos.

Dimensions







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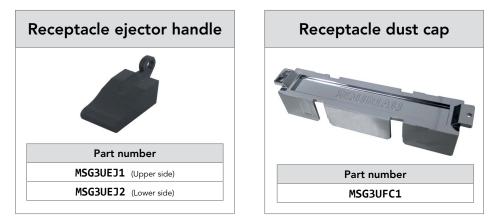
.

27

Connectors

MSG 51 pos.

Accessories



Crimping and extraction tool



MSG 51 pos.

Contacts for plug

Contact type	Plating	AWG	mm²	Insulator Ø	Part number for loose piece	Part number for reel
		22	0.3	1.4 - 1.8	MDE2022LVN	MDE2022VN
Box stamped & formed	Cald 0 2	20	0.5	1.6 - 2.0	MBF2022LYN	MBF2022YN
socket contact	Gold 0.3µm	18	0.75	1.9 - 2.3		
		16	1.25 - 1.5	2.2 - 2.6	MBF1618LYN	MBF1618YN

Note: all dimensions are in mm

MSG 5 Quadrax



Plug Equipped with polarization keys and small cable clamp.

Contact type	Cable direction	Cable sheath diameter	Ground clip (2)	Part number ⁽¹⁾
5 female Quadrax included	Upward cabling	7.0 to 9.3 mm	All position mounted	MSG5AP1Y1LABCDE
5 female Quadrax included	Upward cabling	6.3 to 6.9 mm	No ground clip	MSG5AP1Y1S
5 female Quadrax included	Upward cabling	6.3 to 6.9 mm	All position mounted	MSG5AP1Y1SABCDE
5 female Quadrax included	Downward cabling	6.3 to 6.9 mm	All position mounted	MSG5AP2Y1SABCDE
1: Please consult us for the other combina	tion of above components.	· · · · · · · · · · · · · · · · · · ·	2: Ground clip po	sition can be chosen. Please consult us.

1: Please consult us for the other combination of above components.

Receptacle

Equipped with polarization keys and fixing block.

Contact type	Mount type	Quadrax Skirt (2)	Bracket	Part number (1)
5 male Quadrax included	Right angle	None	With flange	MSG5ARRY1
5 male Quadrax included	Straight	None	With bracket	MSG5ARSY1
5 male Quadrax included	Straight	All position mounted	With bracket	MSG5ARSY1ABCDE

1: Please consult us for the other combination of above components.

2: Quadrax Skirt position can be chosen. Please consult us.

Skirt

Delivered without screws. Screws to be defined by the customer according to the application.

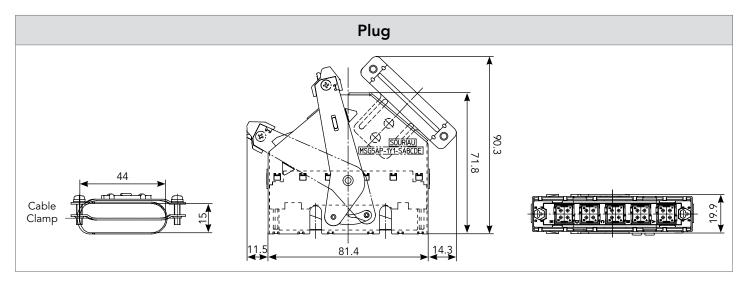
Panel type and size (1)	Cable direction	Description	Part number*
Rack panel system 3U-4HP size	Upward cabling	With 3U-4HP front panel, lower ejector handle position	MSG3USKFPF12
Rack panel system 3U-4HP size	Downward cabling	With 3U-4HP front panel, lower ejector handle position	MSG3USKFPF22
Rack panel system 6U-4HP, 9U-4HP size	Upward cabling	With ejector handle hole for right-angle type	MSG3USKFP1
Rack panel system 6U-4HP, 9U-4HP size	Downward cabling	With ejector handle hole for right-angle type	MSG3USKFP2
Panel system	Upward cabling	With bracket for right-angle type	MSG3USKBPF1
Panel system	Downward cabling	With bracket for right-angle type	MSG3USKBPF2
Panel system	Upward cabling	For straight type, without ejector handle hole	MSG3USKBP1
Panel system	Downward cabling	For straight type, without ejector handle hole	MSG3USKBP2

1: See panel mounting page 34

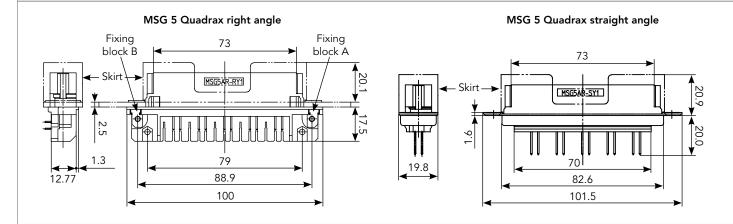
*Please consult us for the other combination of above components.

MSG 5 Quadrax

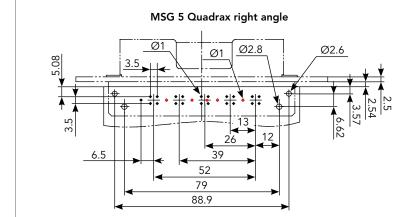
Dimensions



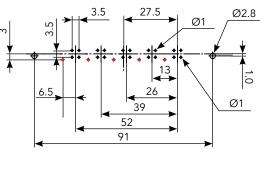
Receptacle



Drilling pattern



MSG 5 Quadrax straight



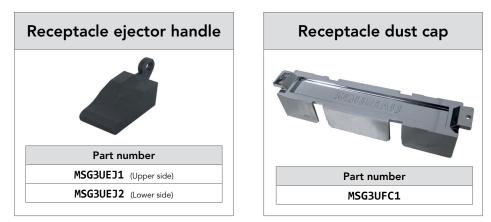
• For GND-pin (shole)

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Note: all dimensions are in mm. Dimensions are not contractual and may be subject to modifications Connectors

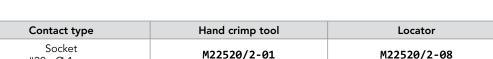
MSG 5 Quadrax

Accessories



Tooling

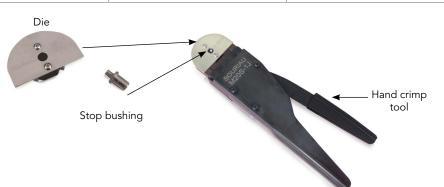
Extraction tool for assembled Quadrax	
TMSG3UH01	
	۲



#20 - Ø 1 mm	M225207 2-01	M2252072-00	
or			
Contact type	Hand crimp tool	Die	Stop bushing
Socket #20 - Ø 1 mm	M20S-1J	S-5APK	SL-5APK



Socket contact



MSG 5 Quadrax

Contacts can not be sold separately

Contact type	Plating	AWG	mm²	Max wire Ø	Max insulator Ø			
Socket #20 - Ø 1 mm	Gold 0.4µm	24-18	0.2 - 0.75	1.2	2.5			

Note: all dimensions are in mm

Panel mounting

Rack panel system for right-angle type (3U-4HP size)

Cabling	For part numbers:
Upward	MSG3USKFPF12
Downward	MSG3USKFPF22



Handle is not included the PN of kit. Ex: Handle is shown on lower position, the cabling direction is upward.

Rack panel system for right-angle type (3U-4HP, 6U-4HP, 9U-4HP size) Cabling For part numbers: Upward MSG3USKFP1 Downward MSG3USKFP2







Panel is prepared by customer

Panel System for right-angle type

Cabling	For part numbers:
Upward	MSG3USKBPF1
Downward	MSG3USKBPF2







Panel is prepared by customer

Panel System for straight and wire-to-wire type

Cabling	For part numbers:
Upward	MSG3USKBP1
Downward	MSG3USKBP2







Panel is prepared by customer

Notes

Similar product range

VGE1 & FER1 Series	38
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Similar product range

VGE1 & FER1 Series

A reverse bayonet coupling system adpated for high vibration applications.

Fire smoke:

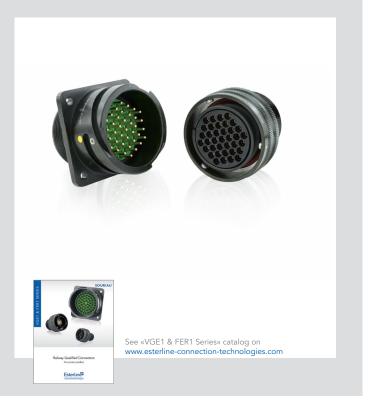
- . HL3/R22 HL3/R23 according to EN 45545-2.
- . NFPA 130 compliant.
- . JRMA Class 3.

Ruggedized solution:

- . High vibration Cat 2 according EN 61373.
- . 500h salt spray.
- . IP67.
- . -40°C to 100°C.
- . Compact solution with the size 14 (32 mm diameter up to 10 contacts).

High speed data transmission:

- . Signal up to 60 contacts (Trim Trio contacts).
- . Quadrax.
- . Fiber optic.



SMS Series

Quick mating plastic solution.

Fire smoke:

- . Flame retardant version : HL3/R22 HL3/R23 according to EN 45545-2.
- . PCB board version : HL2/R22 HL2/R23 according to EN 45545-2.
- . UL94 V-0.

Easy and quick mating:

- . Push to mate.
- . Press and release to unmate.

Cost saving solution:

- . Trim trio contacts : machined or stamp contacts for a secure solution with optimized costs.
- . Full plastic solution.
- . Integrated strain relief.



Similar product range

838 Series

Intercoach solution with screw coupling system.

Fire smoke:

. HL2/R22 - HL3/R23 according to EN 45545-2.

Ruggedized solution:

- . High vibration Cat. 2 (Cat 3 for size E) according EN 61373.
- . IP 67.
- . -40°C to 100°C.
- . Current up to 180 A.

High speed data transmission:

- . Signal up to 61 contacts.
- . Quadrax.
- . Fiber optic.



8525 Series

Metal high density solution with bayonet coupling system.

Fire smoke:

. HL3/R22 - HL3/R23 according to EN 45545-2.

High Performances:

- . High density up to 61 contacts #20.
- . High sealing performances: possibility of hermetic solutions.
- . Improved shielding and signal intergrity.
- . Up to 200°C.



See «8525 Series» www.esterline-connection-technologies.com

Similar product range

UTS Series

Plastic waterproof solution with bayonet coupling system.

Fire smoke:

- . HL2/R22 HL2/R23 according to EN 45545-2.
- . UL94 V-0.

Indoor and outdoor use:

- . Waterproof: IP68/69K Dynamic Mated & Unmated.
- . UV resistant: F1 rated per UL 746C. No mechanical
- detrioration after 5 years of exposure in natural environment.

High speed data transmision:

- . Signal (Trim Trio contacts).
- . LC and MPO contacts.



UTO Series

Metal waterproof solution with bayonet coupling system.

Fire smoke:

. HL2/R22 - HL2/R23 according to EN 45545-2. . UL94 V-0.

Indoor and outdoor use:

- . High vibration Cat. 2 (Cat 3 for size E) according EN 61373. . Waterproof: IP68/69K Dynamic Mated & Unmated.
- . EMI shielded: 65 dB at 100 Mhz.
- . 500 mating cycles.

Cost saving:

- . Trim trio contacts : Machined or stamp contacts for a secure solution with optimized costs.
- . Mixed Power & Signal contacts layouts.



Similar product range

8D Series (38999)

Metal high density solution with screw system.

Fire smoke:

. HL3/R22 - HL3/R23 according to EN 45545-2.

High Performances:

- . High sealing performances: possibility of hermetic solutions.
- . Improved shielding and signal intergrity.
- . Up to 200°C.

High speed data transmission:

- . Signal up to 128 contacts #22.
- . Quadrax.
- . Fiber optic.



MSM & MSO Series

High Performance Boardmount Connector.

High Performances:

- . From 9 to 75 positions.
- . -55°C to +125°C.
- . Up to 500 mating cycles.
- . UL 94V0.
- . Trim Trio contacts.



See «MSM & MSO Series» www.esterline-connection-technologies.com

Similar product range

MB Series

High Density Rectangular connector.

Easy and secure solution:

- . Quick lever with safe locking system.
- . 360° metal housing for an improved shielding.
- . High density solution up to 52 contacts.
- . -55°C to +125°C.
- . Trim Trio contacts.



JBX Series

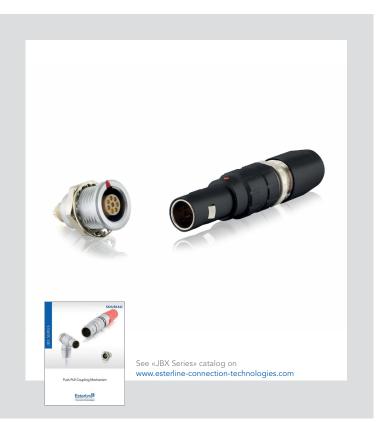
Metal Push-Pull connector.

Easy to use:

. Mate and unmate the connector with only two finger.

High performances:

- . From 2 to 30 contacts in small diameter connector (from 7 to 16 mm diameter).
- . Up to 5,000 mating cycles.
- . 360° shielding.



Reliable People, Reliable Solutions



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