



2MM SERIES

PCB reliable connections

210

220

250

320

350



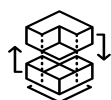
Compact & Modular

STANDARDS

MIL-DTL-55302

BS 9525-F0033

KEY BENEFITS



MODULARITY

Combination of Low and High Voltage, coaxial and High-Power contacts, depending on the configuration.



AGILITY

Board-to-board, board-to-wire or wire-to-wire connections. THT, SMT and press-fit assemblies, depending on the version.



ROBUSTNESS

Mechanical locking and resistance to thermal and vibrational stresses.



COMPACTNESS

2mm pitch to optimise space and connection density.

TECHNICAL SPECIFICATIONS

Contact pitch	2mm (X/Y)
Pins	From 4 to 50
Durability	500 matching cycles
Current rating (standard)	3.3 A max. at 25°C 2.6 A max. at 85°C (single contact in insulator)
Current rating (HP)	5 A to 45 A
Operating voltage	240 V AC/DC
Test voltage	1 000 V AC/DC (peak)
Contact resistance	≤ 10 mΩ (initial) ≤ 13 mΩ (after ageing)
Insulation resistance	≥ 1 000 mΩ (initial) ≥ 100 mΩ (after ageing)

Contact resistance	≤ 10 mΩ (initial) ≤ 13 mΩ (after ageing)
Insulation resistance	≥ 1 000 mΩ (initial) ≥ 100 mΩ (after ageing)
Operating temperature	-55°C to +125°C
Salt spray resistance	96 hours
Insulator material	Glass-filled PPS or PEI (re-flow up to 260°C) Smoke and fire compliant
Contact material	Copper beryllium clip, copper alloy body
Contact plating	Gold / tin or full gold
Guides and Fixing	A, AC, AP, C, GM, H, P, Q, W, Y,

ASSEMBLING OPTIONS



SMT



THT



Crimping

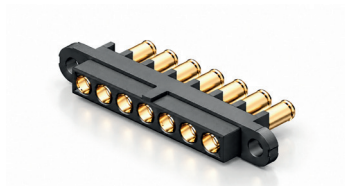


Press-fit

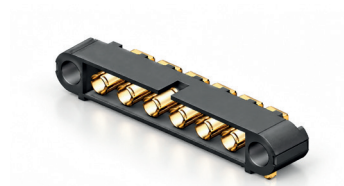
Power

Compact size. High current performance.

A range of 2mm connectors designed to combine high power with a compact footprint, available in several configurations to suit integration requirements.



*2mm High-Power Female
SMT Crimp Contact*



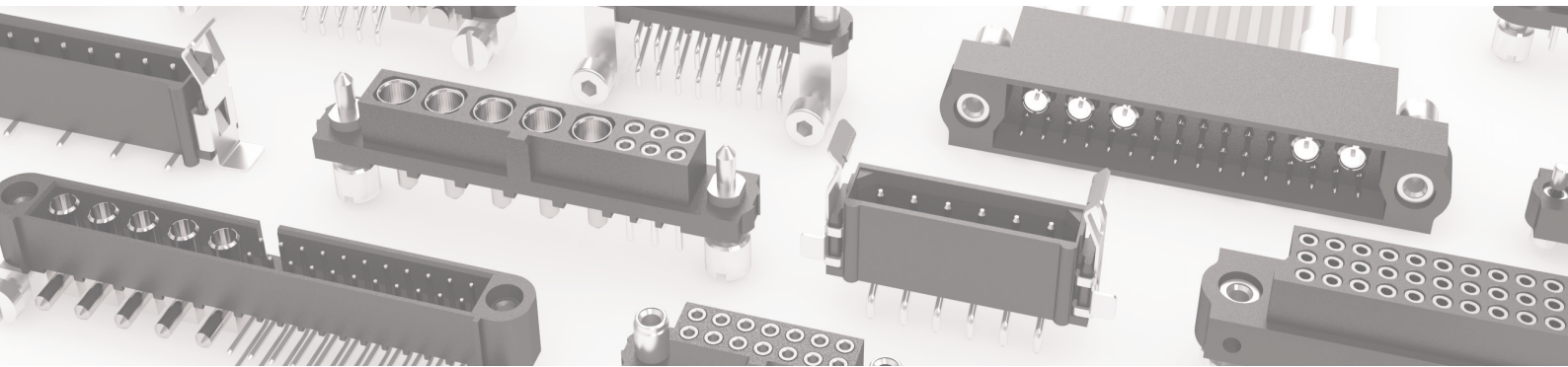
*2mm High-Power Right-
Angle Male PCB Contact*

MOUNTING TYPE		HP STYLE / RATING	
Straight SMT Fasteners : O, A, AP, H, C		85 (15A) 135 (25A)	
Straight SMT Fasteners : O, P, Q, Y		140 (15A)	
Right-angle SMT Fasteners : O, W		95 (15A) 145 (25A)	
Crimp Fasteners : O, A, AP, H, C		55 (15A) 115 (20A) 121 (30A) 120 (45A)	
MOUNTING TYPE		HP STYLE / RATING	
Crimp Fasteners : O, Y		90 (15A) 110 (20A) 121 (30A) 120 (45A)	
Straight THT Fasteners : O, A, AP, H, C		75/76 (20A) 165/166 (45A)	
Right-angle THT Fasteners : O, GM		86/87 (20A) 170/171 (30A)	
Right-angle THT Fasteners : O, W		80/81 (20A) 170/171 (30A)	

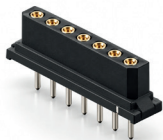
FASTENERS / GUIDE OPTIONS

O	No fastening	P	M2 guide; PCB M2 x 4.2 mount
A	M2 slotted screw with clip	Q	M2 guide; PCB M2 x 5.4 mount
AP	M2 slotted screw without clip	Y	M2 guide; no PCB locking
H	M2 socket-head screw with clip	W	M2 guide; PCB M2 x 4 mount, socket head
C	Smooth guide with M2 cylindrical nut	GM	M2 socket-head screw; PCB M2 x 3.5 mount
AC	M2 quick-tightening socket-head screw		

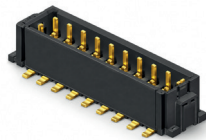
2 mm Standard



210 SERIES

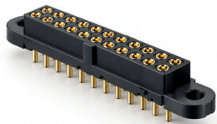
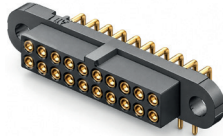


211 SERIES
(one row)



212 SERIES
(two rows)

220 SERIES



320 SERIES



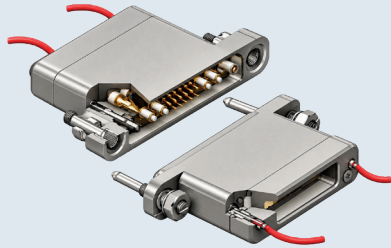
Discovers our offer
and discuss your project.



AEROSPACE • DEFENSE • RAIL • ENERGY • INDUSTRY

Beyond Standard Connectivity

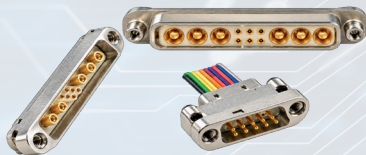
OPTICAL CONNECTORS



- High-speed data transmission
- Compact and robust design
- Custom configurations

250 SERIES

PR-EN4893



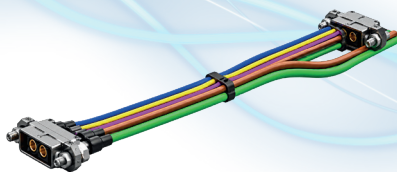
- Shielded connectors
- Mix contacts (coaxial, signal, power)

350 SERIES

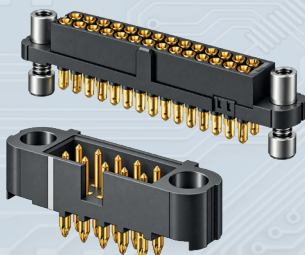


- Ultra-compact
- High reliability
- Environmental resistance

HARNESSES & WIRING



- Cable assemblies
- Custom design
- Ready-to-integrate solutions



PRESS-FIT

- Robust board-to-board connection
- For high mechanical strengths
- Reliable solutions for harsh environments



LET'S BUILD YOUR NEXT CONNECTION.

Select the contact mix, current rating, termination and retention system that fit your application.

ESARIS INDUSTRIES

A french group designing and manufacturing electromechanical components and systems, connectors and wirings for harsh environments.

Conduct electrical energy reliably

Our distributors



www.esaris.fr

