



NESTY

connectors®



THE NEW RANGE
OF NESTABLE
RECTANGULAR
COMBO CONNECTORS
WITH MODULAR &
REMOVABLE MODULES
FOR COAXIAL POWER &
SIGNAL LINES.

NEW AXON' COMBO MINIATURE 'NESTY' CONNECTORS® with Modular & Removable modules

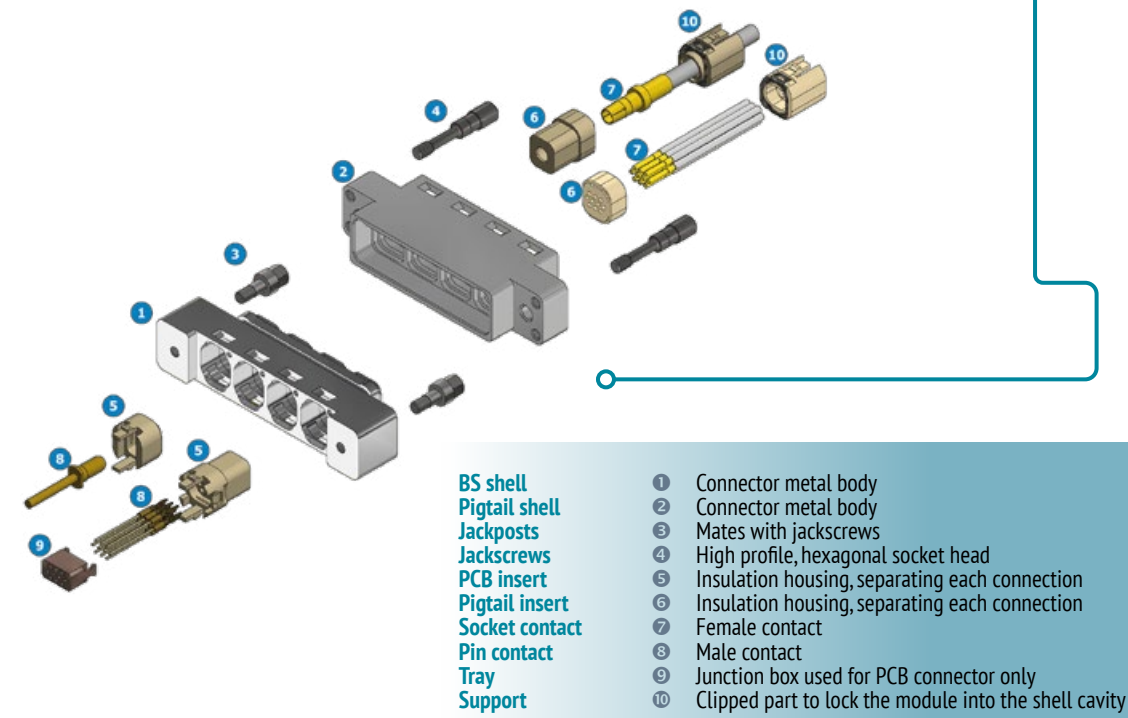
Axon' MODULAR combo connectors, named NESTY, are a range of new connectors made with a housing and changeable standardized modules including power (up to 40 A), signal (3 A max) and coaxial contacts (up to 40 GHz). On request, other customized modules integrating other types of contacts are available.

NESTY connectors® are available in pigtail, solder cup, PCB (BS and CBR) versions depending on the shell and modules chosen.

NESTY connectors® benefit from the long-term expertise of the company in the design and manufacture of micro-D, nano-D connectors, contacts, Versatys power connectors as well as microwave connectors.

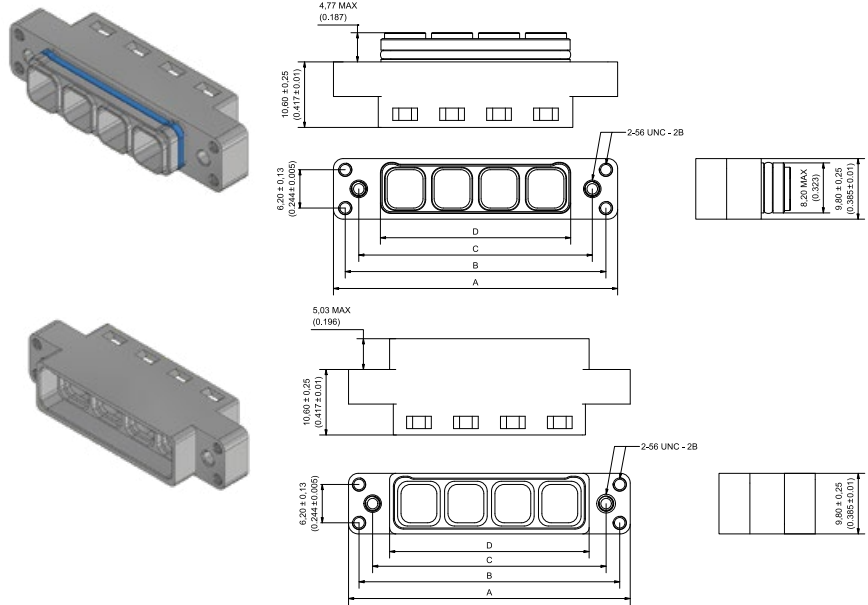
As modular connectors, NESTY can be adapted to your needs. You can have up to 8 cavities per shell. Just mix the modules as you want in the shells. Feel free to create your own NESTY connector with thousands of possibilities.

Overview



Dimensions

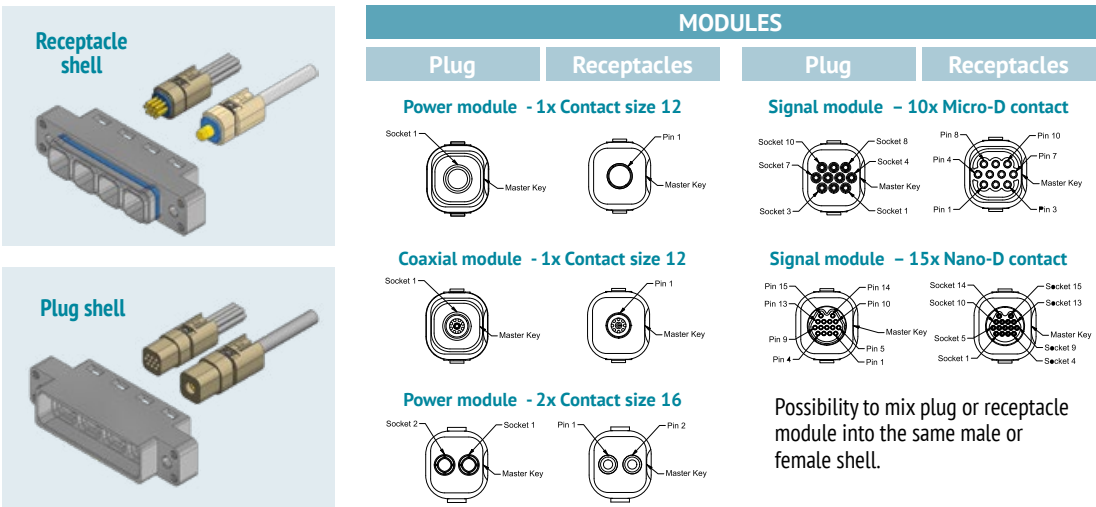
PIGTAIL CONNECTORS



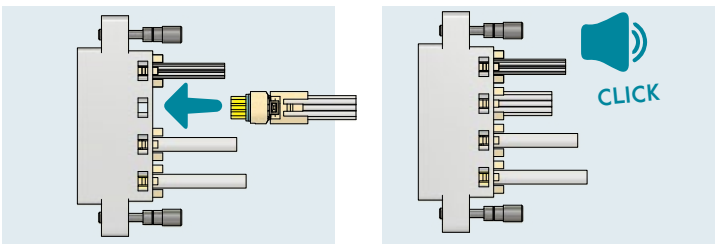
	A ±0.25 (±0.001)	B ±0.13 (±0.005)	C ±0.13 (±0.005)	D MAX	
				MALE	FEMALE
1 module	23.2 (0.914)	19.4 (0.764)	15 (0.591)	8 (0.315)	9.5 (0.375)
2 modules	30.8 (1.213)	27 (1.063)	22.6 (0.89)	15.6 (0.615)	17.1 (0.674)
3 modules	38.4 (1.512)	34.6 (1.363)	30.2 (1.189)	23.2 (0.914)	24.7 (0.973)
4 modules	46 (1.812)	42.2 (1.662)	37.8 (1.489)	30.8 (1.213)	32.3 (1.272)
5 modules	53.6 (2.111)	49.8 (1.961)	45.4 (1.788)	38.4 (1.512)	39.9 (1.571)
6 modules	61.2 (2.41)	57.4 (2.26)	53 (2.087)	46 (1.812)	47.5 (1.871)
7 modules	68.8 (2.709)	65 (2.56)	60.6 (2.386)	53.6 (2.111)	55.1 (2.17)
8 modules	76.4 (3.008)	72.6 (2.859)	68.2 (2.686)	61.2 (2.41)	62.7 (2.469)

Millimeters (inches)

MODULE RANGE

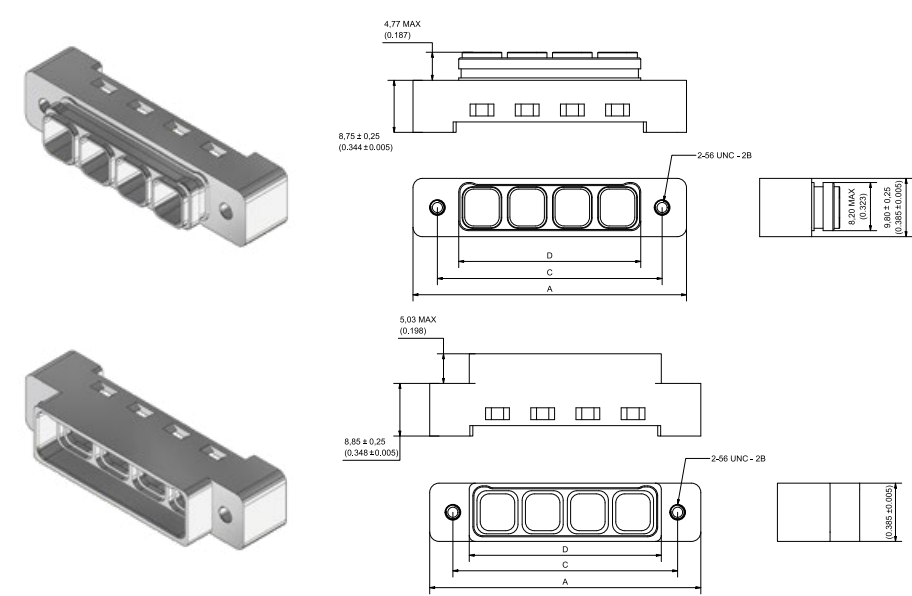


HOW TO PLACE THE MODULES IN THE SHELL



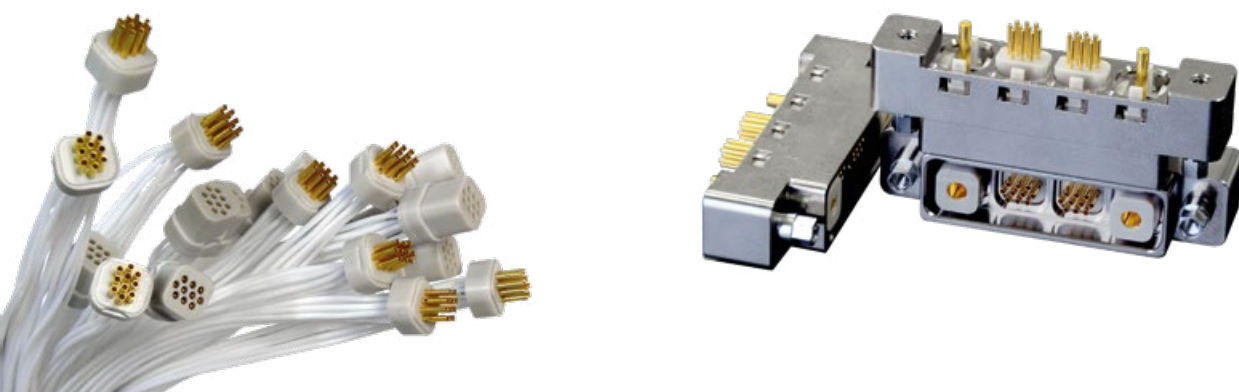
The module is simply placed at the back of the connector, on the chosen shell cavity. The master keys on both shell cavity and module have to be aligned to allow a good engagement. Push the module into the shell cavity. Once you hear a "click" sound, the clips are well placed, and so the module! You can go for the next module the same way.

BS CONNECTORS

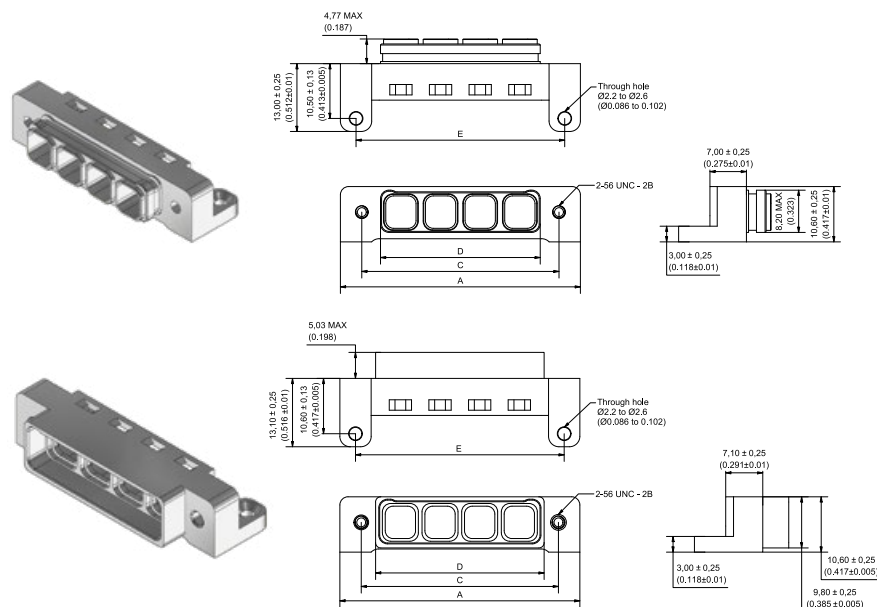


	A ±0.25 (±0.001)	C ±0.13 (±0.005)	D MAX	
			MALE	FEMALE
1 module	23.2 (0.914)	15 (0.591)	8 (0.315)	9.5 (0.375)
2 modules	30.8 (1.213)	22.6 (0.89)	15.6 (0.615)	17.1 (0.674)
3 modules	38.4 (1.512)	30.2 (1.189)	23.2 (0.914)	24.7 (0.973)
4 modules	46 (1.812)	37.8 (1.489)	30.8 (1.213)	32.3 (1.272)
5 modules	53.6 (2.111)	45.4 (1.788)	38.4 (1.512)	39.9 (1.571)
6 modules	61.2 (2.41)	53 (2.087)	46 (1.812)	47.5 (1.871)
7 modules	68.8 (2.709)	60.6 (2.386)	53.6 (2.111)	55.1 (2.17)
8 modules	76.4 (3.008)	68.2 (2.686)	61.2 (2.41)	62.7 (2.469)

Millimeters (inches)



CBR CONNECTORS



	A +0.25 (+0.001)	C +0.13 (+0.005)	D MAX		E +0.13 (+0.005)
			MALE	FEMALE	
1 module	23.2 (0.914)	15 (0.591)	8 (0.315)	9.5 (0.375)	17.2 (0.678)
2 modules	30.8 (1.213)	22.6 (0.89)	15.6 (0.615)	17.1 (0.674)	24.8 (0.977)
3 modules	38.4 (1.512)	30.2 (1.189)	23.2 (0.914)	24.7 (0.973)	32.4 (1.276)
4 modules	46 (1.812)	37.8 (1.489)	30.8 (1.213)	32.3 (1.272)	40 (1.575)
5 modules	53.6 (2.111)	45.4 (1.788)	38.4 (1.512)	39.9 (1.571)	47.6 (1.875)
6 modules	61.2 (2.41)	53 (2.087)	46 (1.812)	47.5 (1.871)	55.2 (2.174)
7 modules	68.8 (2.709)	60.6 (2.386)	53.6 (2.111)	55.1 (2.17)	62.8 (2.473)
8 modules	76.4 (3.008)	68.2 (2.686)	61.2 (2.41)	62.7 (2.469)	70.4 (2.772)

Millimeters (inches)

Electrical & mechanical characteristics

CHARACTERISTIC	SPECIFICATION	
CURRENT RATING	3 A max. for signals (Micro-D contacts) 1 A max. for signals (Nano-D contacts) 40 A max. for power T12 25 A max. for power T16	
FREQUENCY & IMPEDANCE (COAXIAL)	40 GHz MAX / 50 Ohms	
CONTACT RESISTANCE	71 mΩ max. (Nano-D) 8 mΩ max. (Micro-D) 2.5 mΩ max. (Power)	
INSULATION RESISTANCE	5000 MΩ min.@ 100 Vdc (Nano-D) 5000 MΩ min.@ 500 Vdc (Micro-D and power)	
DIELECTRIC WITHSTANDING VOLTAGE - SEA LEVEL 0 m - ALTITUDE 21 km (70,000 ft)	Micro-D / Power:	Nano-D:
	600 Vac 150 Vac	250 Vac 100 Vac
MODULE RETENTION	Up to 200 N to breakage	

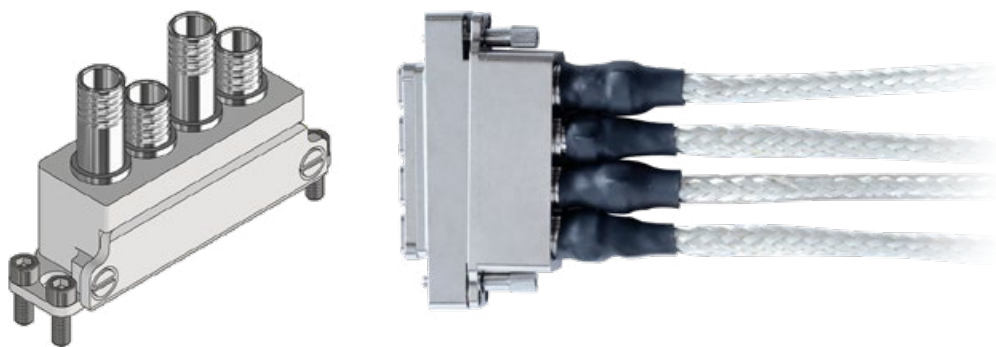
CHARACTERISTIC	SPECIFICATION
CONTACT ENGAGING & SEPARATION FORCE	Nano-D: 141 g max (5 oz) / 11 g min (0.4 oz) Micro-D: 170 g max (6 oz) / 14 g min (0.5 oz) Power / Coaxial: 6 N max / 0.85 N min
MODULE MATING AND DE-MATING FORCE	Nano-D: 1980 g max Micro-D: 2830 g max Power / Coaxial: 611 g max
DURABILITY	Micro-D / Power / Coaxial: 500 mating cycles min. Nano-D: 200 Mating cycles min
TEMPERATURE RANGES	-55°C min +200°C Max for power -55°C min +150°C Max for Micro-D and Nano-D -55°C min +125°C Max for Coaxial
VIBRATION	20 g's - No discontinuity > 1µs
CONTACT RETENTION	Nano-D: 0.9 kg for 5 sec min Micro-D: 2.26 kg for 5 sec min Power: 3.06 kg for 5 sec min

Material & Finish

COMPONENT	MATERIAL	FINISH
MALE CONTACT (NanoD exepted)	Copper and beryllium copper (+ PTFE for coaxial)	Gold plating in accordance with astm-b488, type ii, class 1 (1.27µm (0.00005") Mini), code c over nickel
FEMALE CONTACT (NanoD exepted)	Copper alloy (+ PTFE for coaxial)	Underplate in accordance with sae-ams-qc-n-290 class 2 (1.27µm (0.00005") To 3.81µm (0.00015"))
MALE CONTACT (Nano-D)	Precious gold alloy	In accordance with astm-b-477 or 541 or 562
FEMALE CONTACT (Nano-D)		
SOLDER CUP	Brass	Gold plating over nickel underplating
METAL SHELL	Aluminium alloy, type 6061	Electroless nickel plating in accordance with Sae-ams2404, class 4, .0005 Inch min.
INSERT / PCB TRAY	Natural peek or liquid crystal polymer 30% loaded fibre	
HARDWARE	Stainless steel, 300 series	Passivation in accordance with sae-ams2700
ENCAPSULANT	Epoxy resin	
INSULATED WIRE	PTFE insulated silver plated copper	In accordance with nema-hp3
UNINSULATED WIRE	Gold plated solid copper wire Tin plated solid copper wire	In accordance with a-a-59551
COAXIAL CABLE	Silver plated copper conductor and braids, PTFE insulator & FEP jacket	

Accessories

BACKSHELL

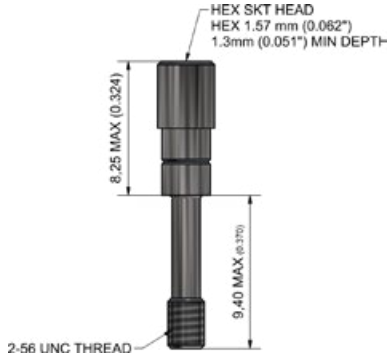


Axon' Cable backshells for Nesty connectors® are designed to optimise EMI/EMC performances and bring a mechanical protection to the terminations. In order to enhance this protection, single funnels are used for every modules of the connector. Axon' Cable designs backshells not only for its own connectors but also for your specific requirements. Thus, it is possible to adapt: the size of the funnel, the cable entry orientation.

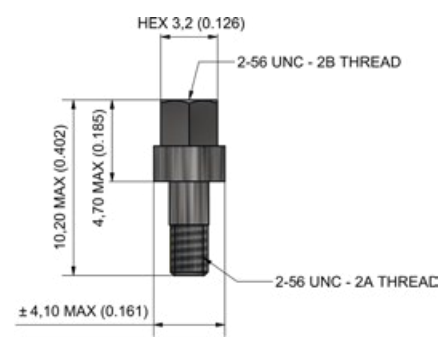
HARDWARE KIT

1 kit consists of 2 jackposts OR jackscrews

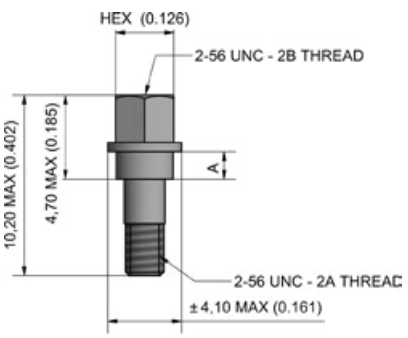
JACKSCREWS



JACKPOSTS



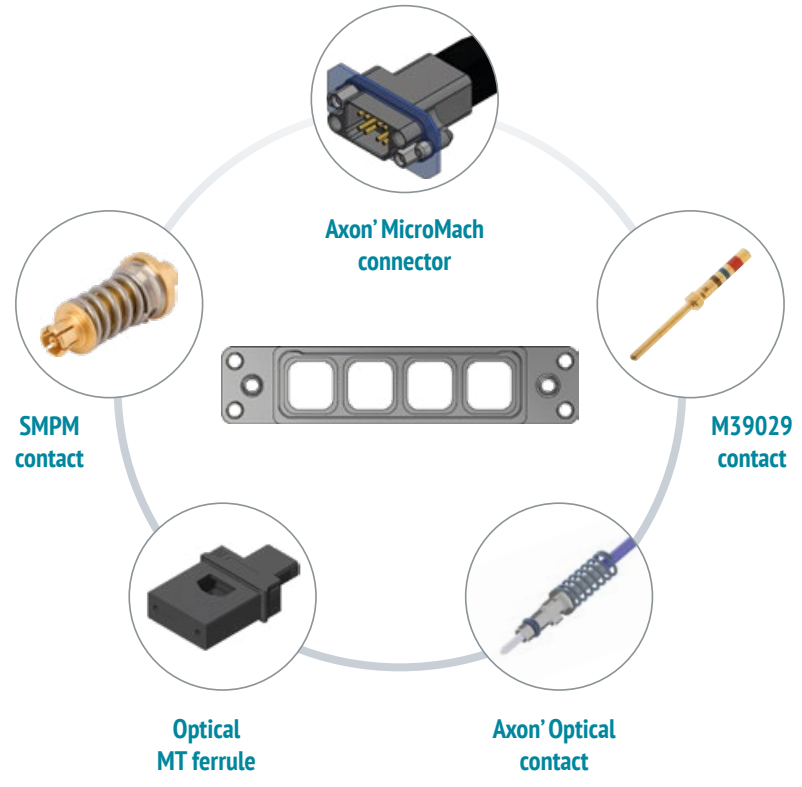
PANEL MOUNTED JACKPOSTS



Other specific needs?

Need other contact arrangement to suit your needs? High data rate? High frequency? Contact from the market? Optical contacts?

AXON' IS ABLE TO PROPOSE YOU A SOLUTION!



>> BRAZIL

**AXON' CABLE INDUSTRIA
E COMÉRCIO LTDA**

RIO DE JANEIRO
TEL.: +55 21 3596-8002
e-mail: salesbrazil@axon-cable.com

>> CANADA

AXON' CABLE CANADIAN OFFICE

MONTREAL, QUEBEC
TEL.: +1 514 898 2044
e-mail: sales@axoncable.com

>> CHINA

AXON' INTERCONNECT LTD

SHUNDE, GUANGDONG
TEL.: +86 757 2838 7200
e-mail: sales@axon-interconnect.com

>> GERMANY

AXON' KABEL GMBH

LEONBERG
TEL.: +49 7152-97992-0
e-mail: sales@axon-cable.de

>> HUNGARY

AXON' KÁBELGYÁRTÓ KFT.

KECSKEMÉT
TEL.: +36 76 508 195
e-mail: axon@axon-cable.hu

>> INDIA

**AXON' INTERCONNECTORS
& WIRES PVT LTD**

BANGALORE
TEL.: +91 (0) 806 816 2966
e-mail: sales@axon-cable.in

**DHRUV: your Indian offset
partner**

**DHRUV AXON' INTERCONNECT
PRIVATE LTD**

BANGALORE

>> JAPAN

AXON' CABLE JAPAN OFFICE

NAGANO
TEL./FAX: +81 26 217 6728
e-mail: axon-japan@axon-cable.com

>> LATVIA

AXON' CABLE SIA

DAUGAVPILS
TEL.: +371 6540 78 91
e-mail: axon@axoncable.lv

>> MEXICO

AXON' INTERCONEX, S.A. DE C.V.

QUERÉTARO
TEL.: +52 442 215 2713
e-mail: axon-mexico@axoncable.com.mx

>> SINGAPORE

AXON' CONNECT PTE LTD

SINGAPORE
TEL.: +65 6250 3169
e-mail: sales.singapore@axon-cable.com

>> SPAIN

AXON' CABLE SPANISH OFFICE

MADRID
TEL.: +34 911 309 123
e-mail: sales@axon-cable.com

>> UNITED KINGDOM

AXON' CABLE LTD

DUNFERMLINE
TEL.: +44 1383 421500
e-mail: sales@axon-cable.co.uk

>> USA

AXON' CABLE INC.

SCHAUMBURG
TEL.: +1 847 230 7800
e-mail: sales@axoncable.com

HEADQUARTERS: FRANCE

AXON' CABLE S.A.S.

2 ROUTE DE CHALONS EN CHAMPAGNE
51210 MONTMIRAIL
TEL.: +33 3 26 81 70 00
sales@axon-cable.com

axon'
cables & connectors



VISIT OUR WEBSITE

www.axon-cable.com