

AWG 25

Tail length

0.25
.010



Miniature high performance twist pin connectors

Micro-D & Nano-D,
Rectangular & Circular



COMBO MICRO-D CONNECTORS

COMBO-D GENERAL INFORMATION

- Rectangular Combo Micro-D connectors. 142
- Contact arrangements 143
- Coaxial and power contacts and cables 144
- General characteristics 147

PCB COMBO CONNECTORS

- PCB connectors 148
- Board Straight type (BS) - 0.075" pitch 149
- Condensed Board Right angle (CBR) - 0.100" pitch 153

PIGTAIL COMBO CONNECTORS

- Male and female pigtail connectors 157

SPECIAL COMBO CONNECTORS 160



COMBO-D
CONNECTORS

Rectangular
Micro-D connectors

COMBO Micro-D
connectorsRECTANGULAR COMBO
MICRO-D CONNECTORS

Continuous miniaturisation in electronics makes it ever more challenging to route power and RF signals through very small connectors.

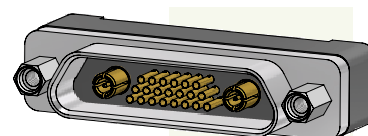
The ideal solution is the AXON' Combo Micro-D. These special, hybrid connectors accommodate a mixture of power and coaxial cables, along with regular signal wires, all in one compact body.

They are available in 2 types and 3 different styles.

► PCB connectors

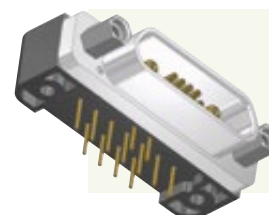
► BS TYPE

- Board Straight connector for flexible and rigid printed circuit boards,
- Various tail lengths available.



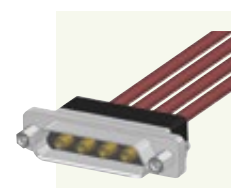
► CBR TYPE

- Condensed Board Right angle connector for flexible and rigid printed circuit boards,
- Various tail lengths available.



► Pigtail connectors

- With coaxial cables (different types and sizes available),
- Connectors are backpotted to protect contacts,
- A mixed arrangement with coaxial and power cables is also possible.



▲ COMBO MICRO-D
WITH Ø2.2MM CONTACT



▲ COMBO MICRO-D WITH
Ø3MM CONTACT

CONTACT ARRANGEMENTS

Combo Micro-D connectors use two types of contacts in two sizes:

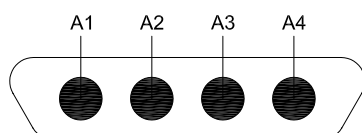
- 2.2 mm and 3 mm diameter coaxial contacts.
- 2.2 mm and 3 mm diameter power contacts.

Arrangements can vary depending on the number and the size of the coaxial, power and signal contacts.

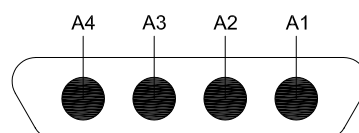
AXON' standard combo Micro-D connectors are available with four different mating faces.

► MATING FACE VIEW

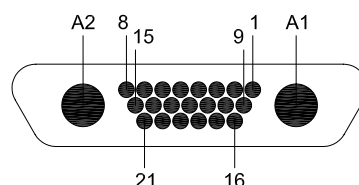
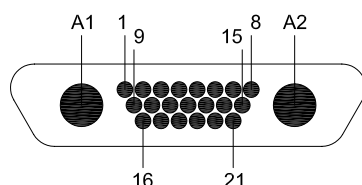
MALE MATING FACE



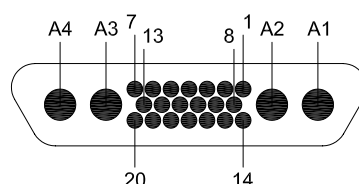
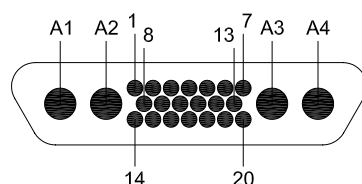
FEMALE MATING FACE



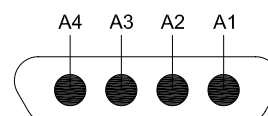
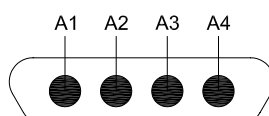
C1/P1: 4 CONTACTS Ø3MM IN A 51 WAY MICRO-D SHELL



C3/P3: 2 CONTACTS Ø3MM + 21 SIGNALS IN A 51 WAY MICRO-D SHELL



C10/P10: 4 CONTACTS Ø2.2MM + 20 SIGNALS IN A 51 WAY MICRO-D SHELL



C8/P8: 4 CONTACTS Ø2.2MM IN A 25 WAY MICRO-D SHELL

COMBO Micro-D
connectorsCOAXIAL & POWER CONTACTS
& CABLES

AXON' uses micro-miniature high frequency and high power contacts to provide the optimum performance within the smallest available space. Two contacts sizes are available: 2.2 mm and 3.0 mm.

AXON' also offers coaxial contacts in 2 different impedances - 50Ω and 75Ω - and power contacts in different current ratings, from 5A to 20A.

Their characteristics are detailed below:

COAXIAL CONTACTS					
CONTACT TYPE mm (inch)	MEDIA	CONTACT IMPEDANCE	INSULATION RESISTANCE (contacts only)	SWR (contacts only) (Standing Wave Ratio)	FREQUENCY (max.) (for the final assembly)
Ø 3.00 0.118	PCB	50 Ω AND 75 Ω	10 ⁶ MΩ / 250 V _{RMS} (*)	< 1.05 + 0.04 F (GHz) (*)	3 GHz
Ø 3.00 0.118	Coaxial cable	50 Ω AND 75 Ω	10 ⁶ MΩ / 250 V _{RMS}	< 1.05 + 0.04 F (GHz)	6 GHz (depending on cable)
Ø 2.20 0.086	PCB	50 Ω	10 ⁶ MΩ / 250 V _{RMS} (*)	< 1.05 + 0.04 F (GHz) (*)	1 GHz
Ø 2.20 0.086 (*)	Coaxial cable	50 Ω	10 ⁶ MΩ / 250 V _{RMS}	< 1.05 + 0.04 F (GHz)	3 GHz (depending on cable)

(*)The above values depend on the impedance of the PCB the connector is connected to.

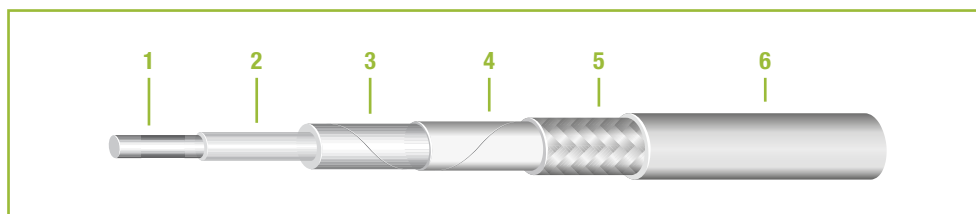
POWER CONTACTS			
CONTACT TYPE mm (inch)	AWG	CONTACT RESISTANCE	CURRENT (max.)
Ø 3.00 0.118	20	6 mΩ max.	5A
	18	6 mΩ max.	8A
	16	6 mΩ max.	10A
	14	6 mΩ max.	15A
	12	6 mΩ max.	20A
Ø 2.20 0.086	20	6 mΩ max.	5A
	18	6 mΩ max.	8A
	16	6 mΩ max.	10A

► Coaxial cable specification

CONTACT DIAMETER mm (inch)	IMPEDANCE	COAXIAL CABLE AVAILABLE	NOMINAL DIAMETER mm (inch)	AXON' P/N
Ø3.00 0.118	50 Ω	AX086	2.50 .098	P531437
		RG316	2.59 .102	RG316
	75 Ω	RG179	2.66 .105	RG179
Ø2.20 0.086	50 Ω	AX047	1.50 .059	P535846
		RG178	1.90 .075	RG178

► AX047 and AX086 coaxial cable specification

► CABLE CONSTRUCTION



	1 - CONDUCTOR		2 - DIELECTRIC		3 - SHIELDING	4 - TAPE	5 - SHIELDING		6 - JACKET	
VERSION	MATERIAL	Ø mm (inch)	MATERIAL	Ø mm (inch)	MATERIAL	MATERIAL	MATERIAL	Ø mm (inch)	MATERIAL	Ø mm (inch)
AX047	SPC*	0.25 .010	PTFE	0.82 .033	SPC* TAPE	POLYESTER	SPC* BRAID	1.17 .046	FEP	1.50 .059
AX086	SPC*	0.51 .020	PTFE	1.66 .065	SPC* TAPE	POLYESTER	SPC* BRAID	2.17 .085	FEP	2.50 .098

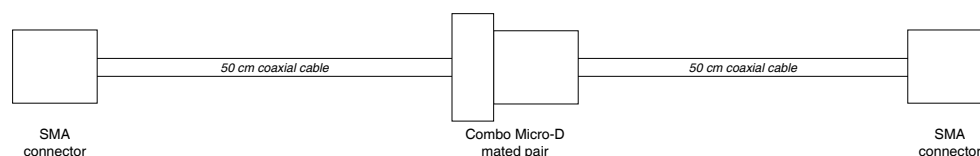
* Silver Plated Copper

► ELECTRICAL CHARACTERISTICS

	AX047	AX086
IMPEDANCE (ohms)	50 ± 2	50 ± 1
CAPACITANCE (pF/m)	97	97
INSERTION LOSS @ 23°C @ 18 GHz (dB/m)	6.6	3.45

► ELECTRICAL CHARACTERISTICS OF A PIGTAIL WITH COAXIAL CONTACT SIZE 3.0 MM

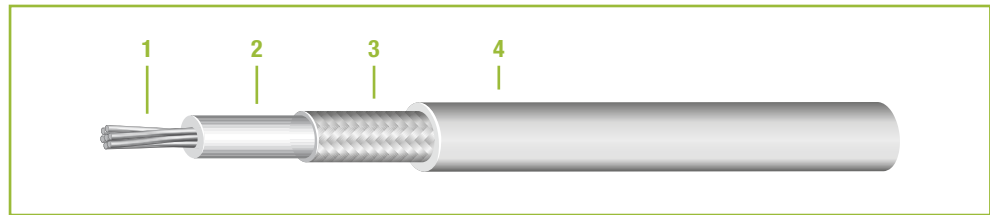
The performances mentioned in the following table have been obtained with the configuration below.



	COMBO WITH S3 CONTACTS AND RG316	COMBO WITH S3 CONTACTS AND AX086
Max. VSWR DC-6 GHz	1.40	1.35
Max. attenuation at 1 GHz (dB)	1.04	0.87
Max. attenuation at 2 GHz (dB)	1.52	1.25
Max. attenuation at 4 GHz (dB)	2.26	1.80
Max. attenuation at 6 GHz (dB)	2.88	2.24

► RGxxx coaxial cable specification

► CABLE CONSTRUCTION

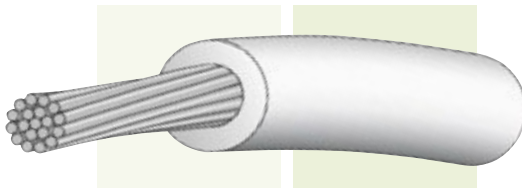


VERSION	1 - CONDUCTOR		2 - DIELECTRIC		3 - SHIELDING		4 - JACKET		IMPEDANCE (Ohms)
	MATERIAL	Ø mm (inch)	MATERIAL	Ø mm (inch)	MATERIAL	Ø mm (inch)	MATERIAL	Ø mm (inch)	
RG178	SPC*	0.30 .0118	PTFE	0.85 .033	SPC* Braid	1.30 .051	FEP	1.90 .0354	50
RG179	SPC*	0.30 .0118	PTFE	1.60 .063	SPC* Braid	2.05 .080	FEP	2.66 .105	75
RG316	SPC*	0.51 .02	PTFE	1.52 .060	SPC* Braid	1.97 .076	FEP	2.59 .102	50

*: Silver Plated Copper

► Power cable specification

For pigtails with power contacts, we recommend PTFE-insulated wire AXON' reference Exx19, xx being the AWG of the wire.



WIRE DESIGNATION	CONDUCTOR						INSULATION		TEMPERATURE RATING	VOLTAGE RATING
	MATERIAL	AWG	CONSTRUCTION mm (inch)	Ø mm (inch)	AREA mm² (SQ IN)	RESISTANCE Ω/100M (Ω/1000FT)	MATERIAL	Ø mm (inch)		
E1219	SPC*	12	19x0.455 19x.018	2.273 .09	3.10 .0048	0.58 1.77	EXTRUDED PTFE	2.85 .112	-90°C / +200°C	600 V _{AC}
E1419	SPC*	14	19x0.360 19x.014	1.803 .07	1.94 .00300	0.92 2.8	EXTRUDED PTFE	2.35 .0925	-90°C / +200°C	600 V _{AC}
E1619	SPC*	16	19x0.300 19x.012	1.500 .06	1.34 .00207	1.3 3.96	EXTRUDED PTFE	2.1 .083	-90°C / +200°C	600 V _{AC}
E1819	SPC*	18	19x0.254 19x.010	1.269 .05	0.96 .0015	1.9 5.9	EXTRUDED PTFE	1.75 .070	-90°C / +200°C	600 V _{AC}
E2019	SPC*	20	19x0.203 19x.008	1.009 .04	0.62 .00096	2.9 8.84	EXTRUDED PTFE	1.50 .060	-90°C / +200°C	600 V _{AC}

*: Silver Plated Copper

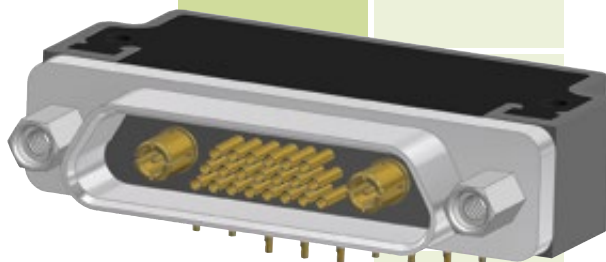
GENERAL CHARACTERISTICS

► Electrical & mechanical characteristics

CHARACTERISTICS	SPECIFICATION	TEST METHOD
SIGNAL CONTACT CURRENT RATING	3 A max.	EIA-364-70
SIGNAL CONTACT RESISTANCE	8 mΩ max.	EIA-364-06
INSULATION RESISTANCE	5000 MΩ min. @ 500 Vdc	EIA-364-21
DIELECTRIC WITHSTANDING VOLTAGE - SEA LEVEL 0 m - ALTITUDE 21 km (70,000 ft)	600 Vac 150 Vac	EIA-364-20
VSWR	Depending on contact and coaxial cable	
INSERTION LOSS	Depending on contact and coaxial cable	
CONTACT ENGAGING AND SEPARATION FORCE (SIGNAL LINES)	170 g max. (6 oz) 14 g min. (0.5 oz)	EIA-364-37
CONTACT RETENTION (SIGNAL LINES)	2.26 kg (5 lbs) for 5 seconds min.	EIA-364-29
DURABILITY	500 mating cycles min.	EIA-364-09
TEMPERATURE RANGES - WITH COAXIAL CONTACTS - WITH POWER CONTACTS	- 55°C / +125°C - 55°C / +150°C	
VIBRATION	20 g's - No discontinuity >1μs	EIA-364-28 - TEST CONDITION IV
SHOCK	50 g's - No discontinuity >1μs	EIA-364-27 - TEST CONDITION E
SALT SPRAY	48 hours	EIA-364-26 - TEST CONDITION B
HUMIDITY	Insulation resistance > 1MΩ	EIA-364-31 - METHOD IV

► Material & Finish

COMPONENT	MATERIAL	FINISH
SIGNAL CONTACT	MALE CONTACT (TWIST PIN)	COPPER AND BERYLLIUM COPPER
	FEMALE CONTACT	COPPER ALLOY
COAXIAL CONTACT AND POWER CONTACT	SPRING LOADED PARTS	BERYLLIUM COPPER
	OTHER METAL PARTS	COPPER ALLOY
	INSULATOR	PTFE
METAL SHELL	ALUMINIUM ALLOY, TYPE 6061	YELLOW CHROMATE OVER CADMIUM : IN ACCORDANCE WITH SAE-AMS-QQ-P-416, TYPE II, CLASS 3 ELECTROLESS NICKEL PLATING IN ACCORDANCE WITH SAE-AMS2404, CLASS 4, .0005 INCH MIN. BLACK ZINC NICKEL OVER NICKEL UNDERPLATE
	STAINLESS STEEL, 300 SERIES	PASSIVATION IN ACCORDANCE WITH SAE-AMS2700
PLASTIC SHELL / INSERT / PCB TRAY	LIQUID CRYSTAL POLYMER, 30% LOADED GLASS FIBRE POLYESTER, 94VO, IN ACCORDANCE WITH MIL-M-24519 (200°C)	
HARDWARE	STAINLESS STEEL, 300 SERIES	PASSIVATION IN ACCORDANCE WITH SAE-AMS2700
ENCAPSULANT	EPOXY RESIN	
INSULATED WIRE (SIGNAL LINES)	PTFE INSULATED SILVER PLATED COPPER IN ACCORDANCE WITH NEMA-HP3 PTFE INSULATED SILVER PLATED COPPER IN ACCORDANCE WITH SAE-AS22759/11 ETFE INSULATED SILVER PLATED COPPER IN ACCORDANCE WITH SAE-AS22759/33	
UNINSULATED WIRE (SIGNAL LINES)	GOLD PLATED SOLID COPPER WIRE IN ACCORDANCE WITH A-A-59551 TIN PLATED SOLID COPPER WIRE IN ACCORDANCE WITH A-A-59551	



PCB connectors

METAL SHELL

- Condensed board right angle connector for flexible and rigid printed circuit boards.
- Operating temperature: 125°C with coaxial contacts, 150°C with power contacts.
- Several tail lengths available.

IDENTIFICATION CODE

MDCA

2

P3

S

-

CBR

P

G

1

SERIES

MDCA: Micro-D Combo AXON'.

CONNECTOR TYPE

1: Cadmium aluminium shell / **Z:** Black zinc nickel aluminium shell.
2: Nickel aluminum shell.

CONTACT ARRANGEMENT

C1 or **P1:** 4 contacts S3 - 51 way shell.
C3 or **P3:** 2 contacts S3 + 21 signals - 51 way shell.
C8 or **P8:** 4 contacts S2.2 - 25 way shell.
C10 or **P10:** 4 contacts S2.2 + 20 signals - 51 way shell.
Cx: coaxial contact; Px: power contact.

CONNECTOR GENDER

S: Receptacle connector.

ELECTRICAL CHARACTERISTICS OF THE COMBO CONTACTS

Coaxial contacts (S3) ■

50: 50Ω.

75: 75Ω.

Coaxial contact (S2.2) ■

50: 50Ω.

Power contacts ■

-: Power contacts.

PCB VERSION

with coaxial contacts:

75S: Board straight connector, 0.075" pitch for signal lines.

CBR: Condensed board right 0.100" pitch for signal lines.

with power contacts:

CBR: Condensed board right 0.100" pitch for signal lines.

HARDWARE

B: M2 threaded holes for hardware. **Px** (x: 1 to 5): Panel mount jackposts.
P: Jackposts. **T:** Threaded inserts installed.

W: Jackpost and threaded inserts installed.

Wx (x: 1 to 5): Panel mount jackposts and threaded inserts installed.

See pages 190 to 200 for hardware description.

CONDUCTOR TYPE (for signals)

G: Gold plated solid conductor AWG25.

T: Tin plated solid conductor AWG24.

Blank: For contact arrangements without signal contacts (C1/P1 or C8/P8).

TAIL LENGTH

1: 2.80mm (0.110").

2: 3.80mm (0.150").

3: 4.80mm (0.190").

METAL CONNECTORS ARE SUPPLIED WITH ANTI-STATIC PROTECTIVE DUST CAPS

COMBO-D CONNECTORS

Rectangular Micro-D connectors

-

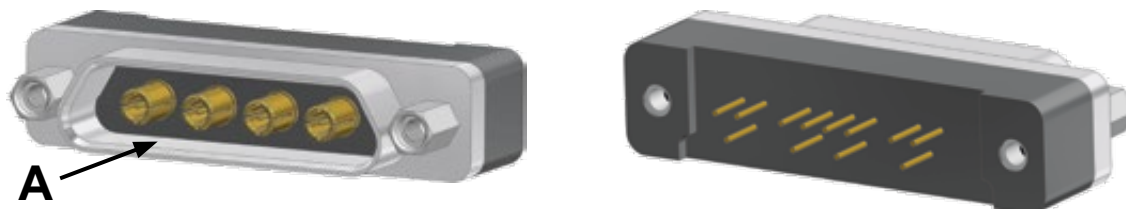
Dimensions are in millimetres (inches).

[illegible]

axon'
cables & connectors

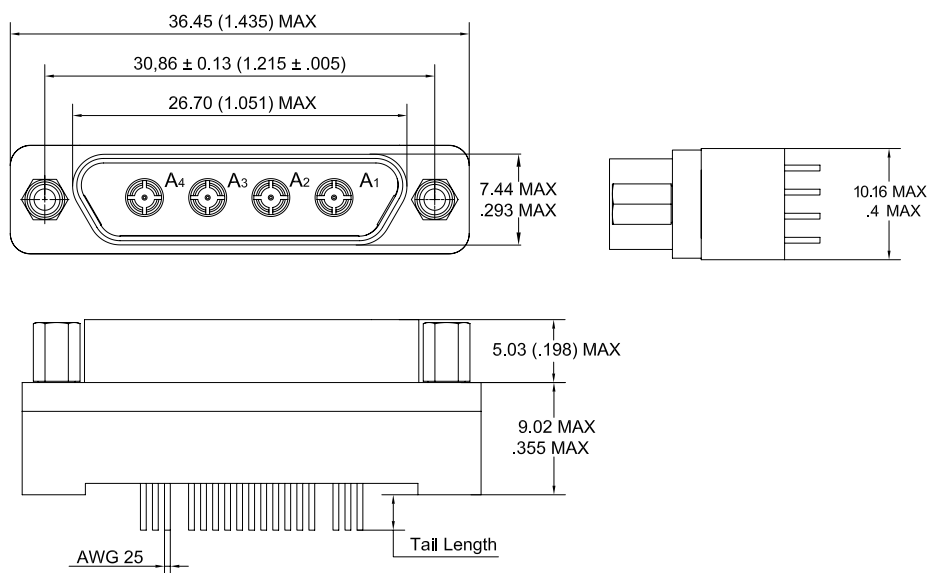
► In a 51 way shell

- FEMALE PCB CONNECTOR (C1 CONFIGURATION)
- 4 COMBO CONTACTS (3.0 mm)



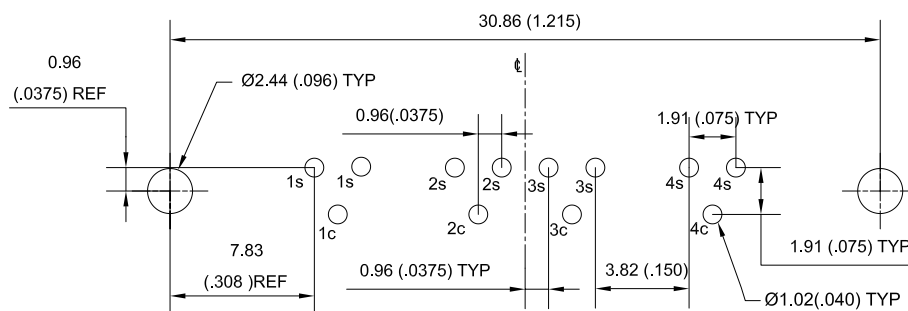
DIMENSIONS

Dimensions are in millimetres (inches).



PCB LAYOUT

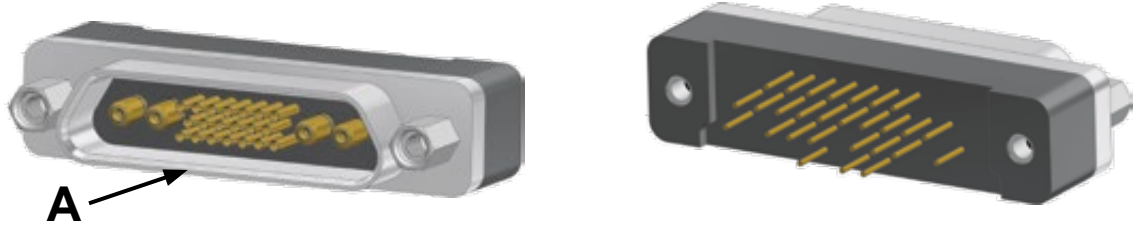
VIEW A



For coaxial contact:
c: center - s: shield

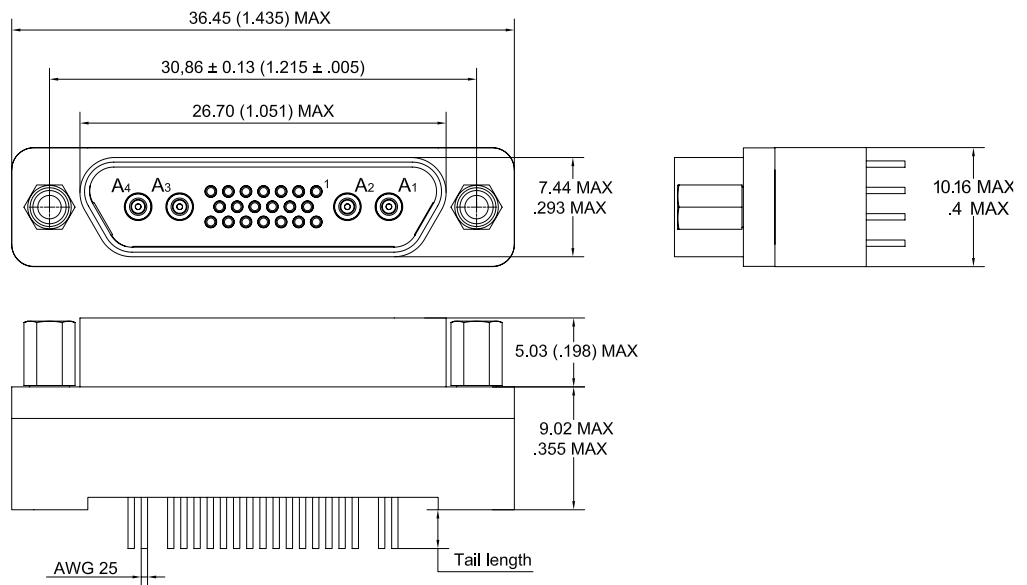
► In a 51 way shell

- FEMALE PCB CONNECTOR (C10 CONFIGURATION)
4 COMBO CONTACTS (2.2 mm) + 20 SIGNALS

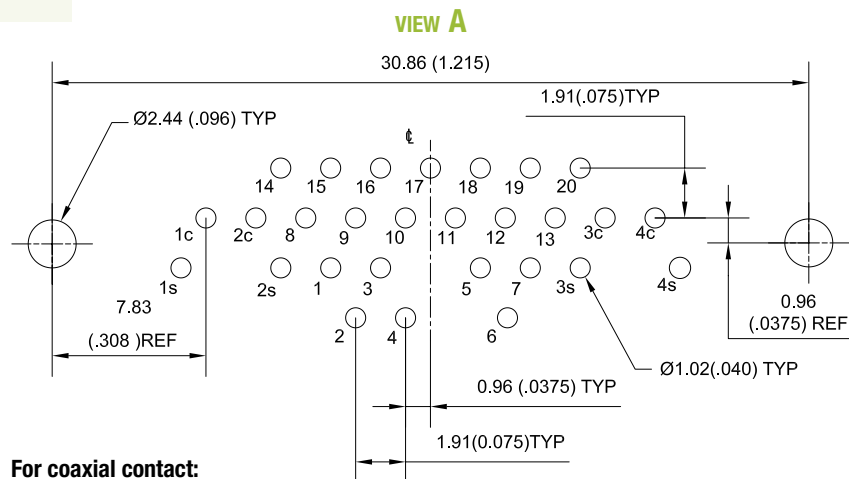


DIMENSIONS

Dimensions are in millimetres (inches).



PCB LAYOUT



For coaxial contact:
c: center - s: shield

COMBO-D
CONNECTORS

Rectangular
Micro-D connectors

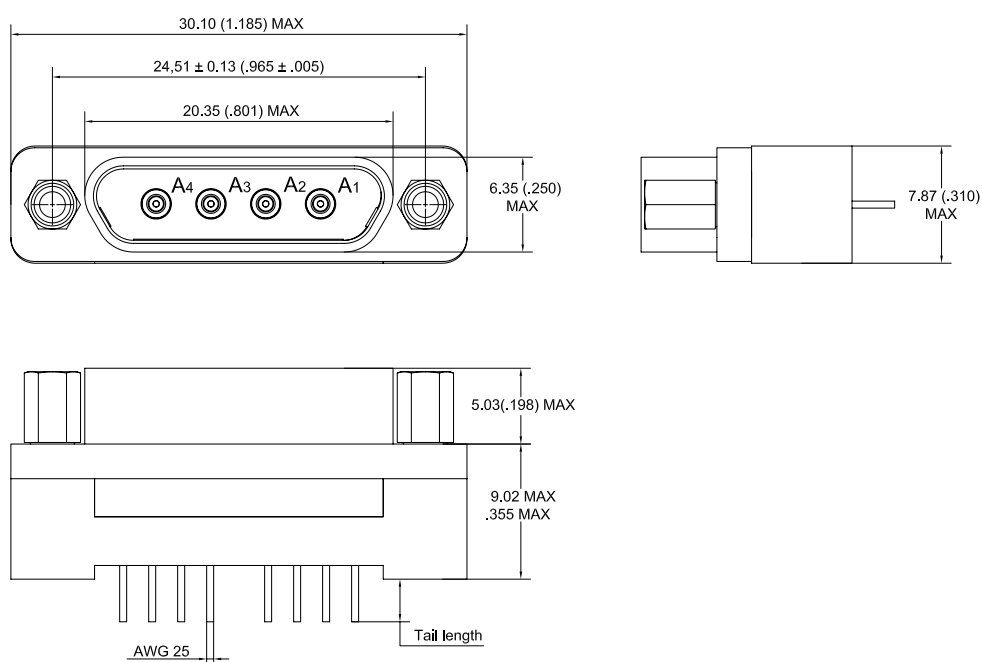
► In a 25 way shell

- FEMALE PCB CONNECTOR (C8 CONFIGURATION)
- 4 COMBO CONTACTS (2.2 mm)



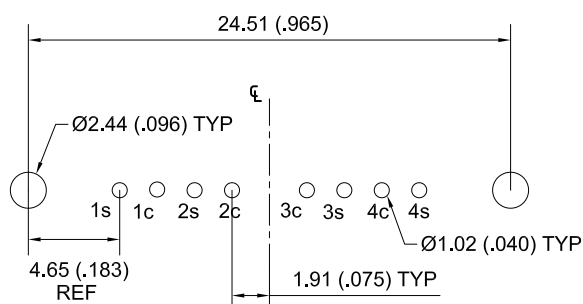
DIMENSIONS

Dimensions are in millimetres (inches).



PCB LAYOUT

VIEW A



For coaxial contact:
c: center - s: shield

COMBO-D CONNECTORS

Rectangular Micro-D connectors

Rectangular Micro-D connectors



Rectangular Micro-D connectors

Rectangular Micro-D connectors

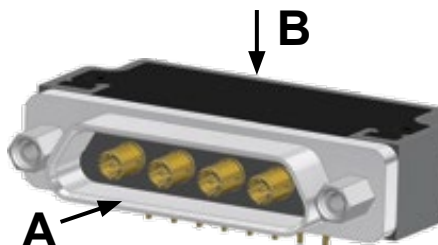


Rectangular Micro-D connectors



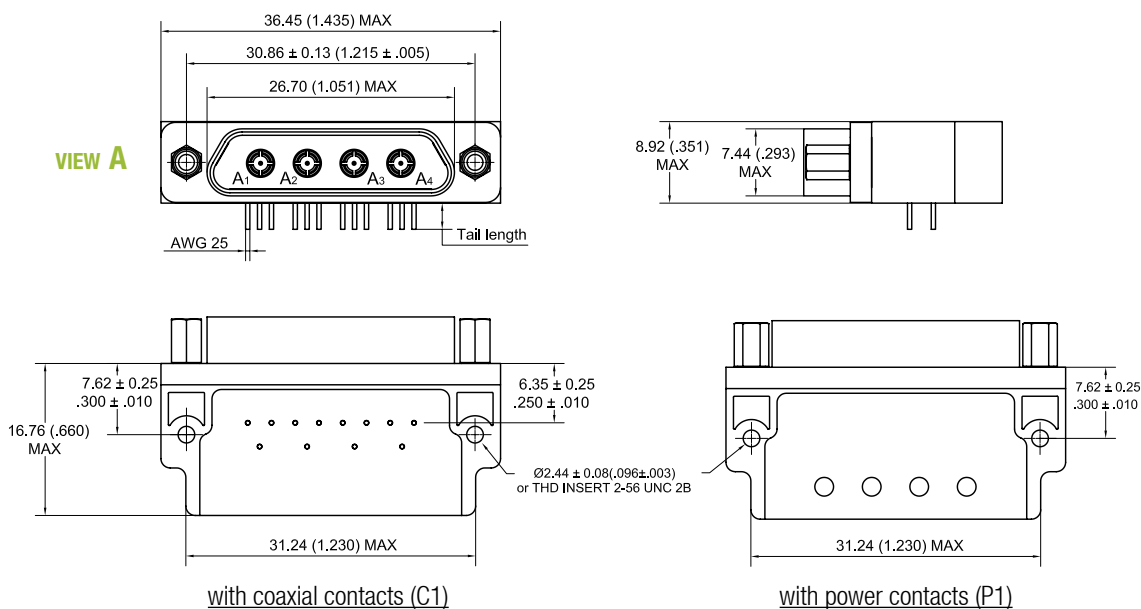
► In a 51 way shell

- FEMALE PCB CONNECTOR (C1/P1 CONFIGURATIONS)
- 4 COMBO CONTACTS (3.0 mm)

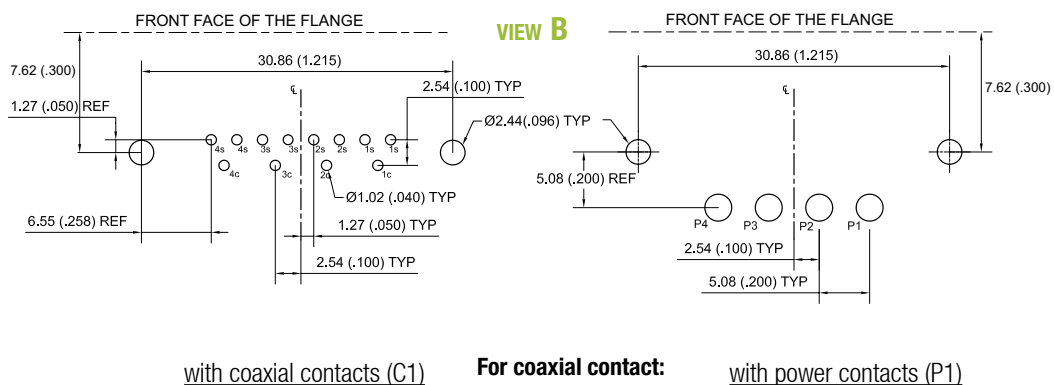


DIMENSIONS

Dimensions are in millimetres (inches).

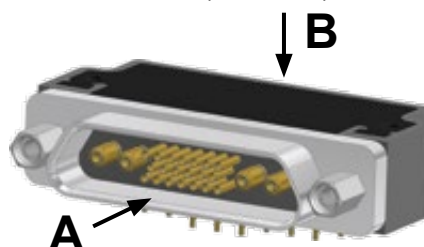


PCB LAYOUT



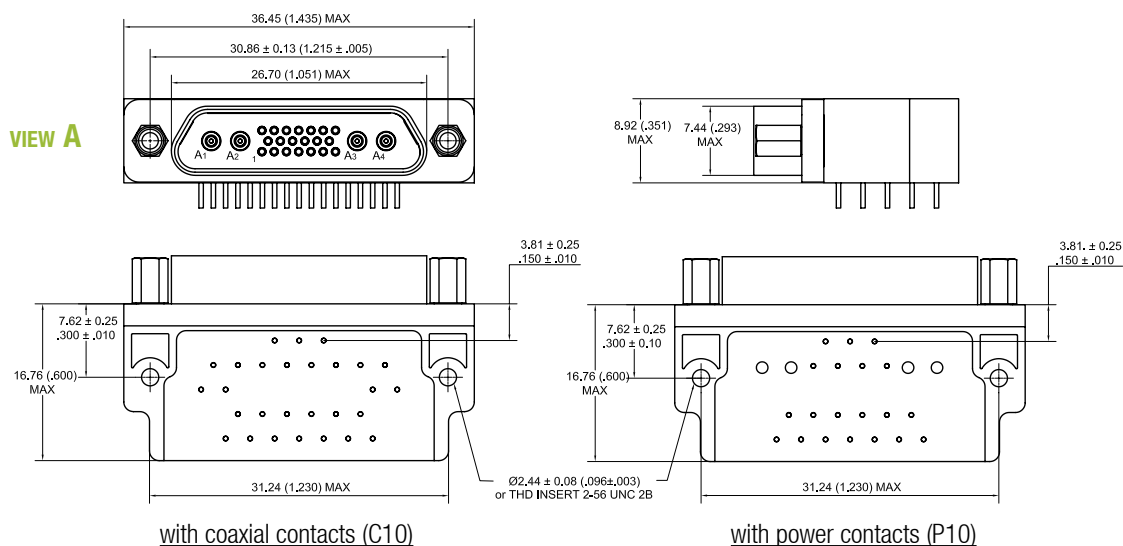
► In a 51 way shell

- FEMALE PCB CONNECTOR (C10/P10 CONFIGURATIONS)
- 4 COMBO CONTACTS (2.2 mm) + 20 SIGNALS

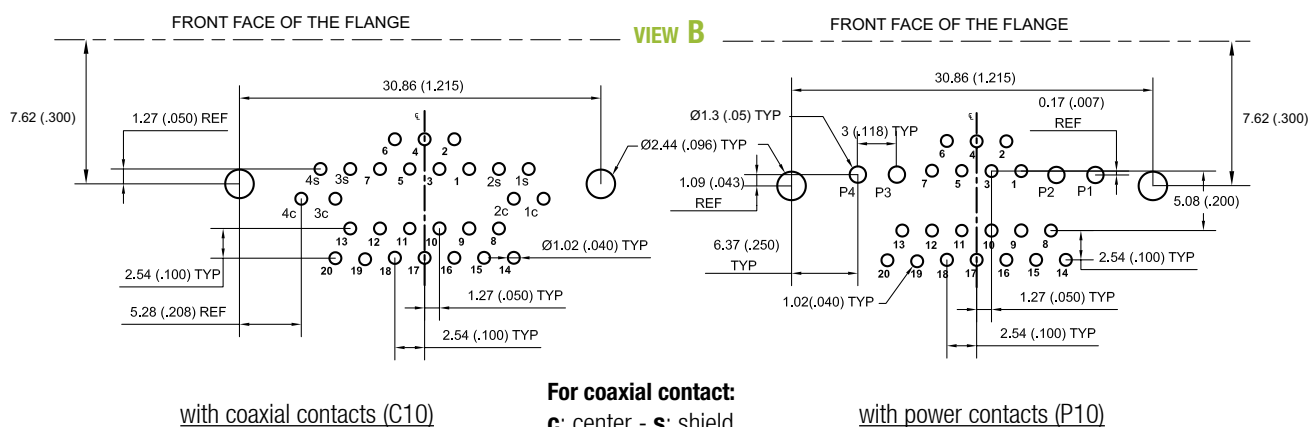


DIMENSIONS

Dimensions are in millimetres (inches).

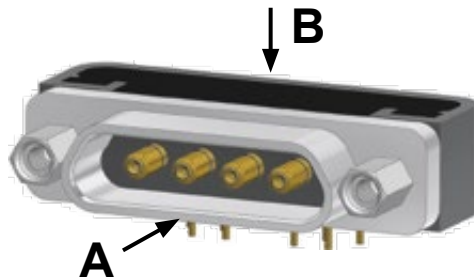


PCB LAYOUT



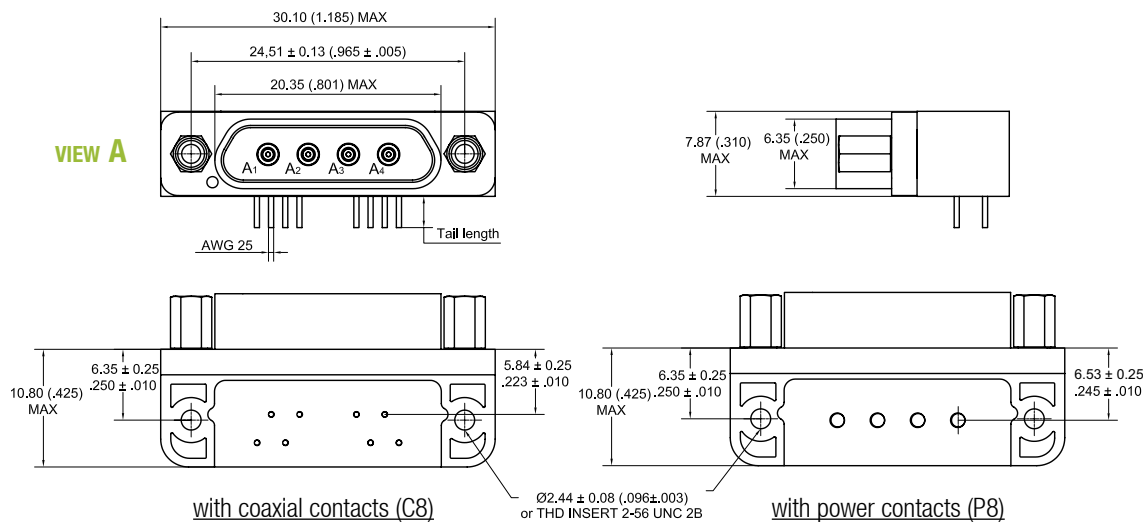
► In a 25 way shell

- FEMALE PCB CONNECTOR (C8/P8 CONFIGURATIONS)
- 4 COMBO CONTACTS (2.2 mm)

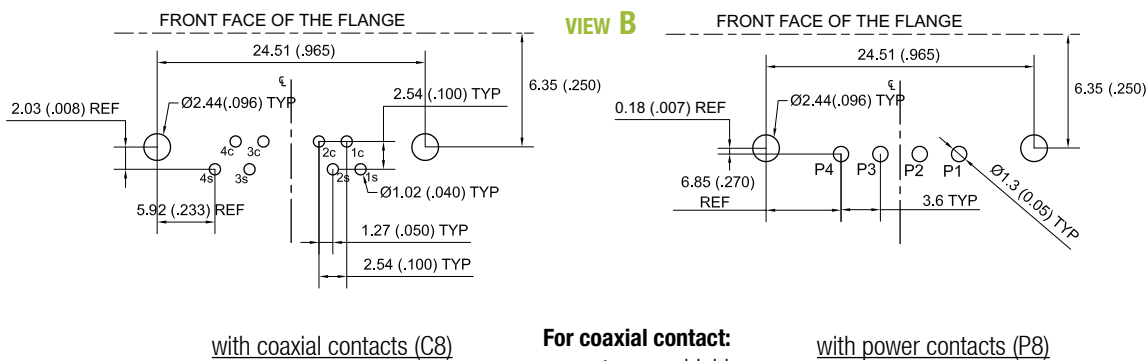


DIMENSIONS

Dimensions are in millimetres (inches).



PCB LAYOUT



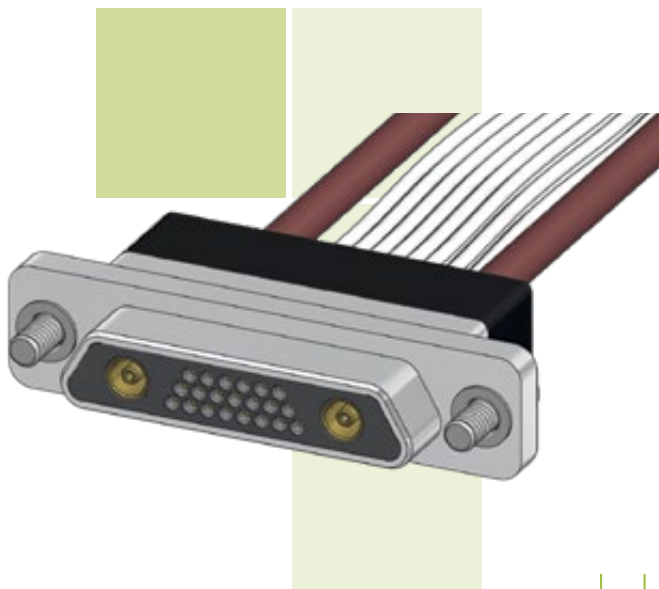
Pigtail connectors

METAL SHELL

- High performance metal connectors
- Operating temperature:
125°C with coaxial contacts,
150°C with power contacts.

COMBO-D
CONNECTORS

Rectangular
Micro-D connectors



IDENTIFICATION CODE

MDCA 2 C1 P A 020 L 8 L 050 M

SERIES

MDCA: Micro-D Combo AXON'.

CONNECTOR TYPE

1: Cadmium aluminium shell / **Z:** Black zinc nickel aluminium shell.
2: Nickel aluminum shell.

CONTACT ARRANGEMENTS

C1 or **P1:** 4 contacts S3 - 51 way shell.
C3 or **P3:** 2 contacts S3 + 21 signals - 51 way shell.
C8 or **P8:** 4 contacts S2.2 - 25 way shell.
C10 or **P10:** 4 contacts S2.2 + 20 signals - 51 way shell.
Cx: coaxial contact – *Px:* power contact.

CONNECTOR GENDER

P: Plug connector. - **S:** Receptacle connector.

CABLE TYPE FOR COMBO LINES

Coaxial cable (S3)

A: AX086 (50Ω).
B: RG316 (50Ω).
C: RG179 (75Ω).

Power cable

A: AWG12 (only for S3).
B: AWG14 (only for S3).
C: AWG16 (recommended for S2.2).
D: AWG18 (recommended for S2.2).
E: AWG20 (recommended for S2.2).

Coaxial cable (S2.2)

A: AX047 (50Ω).
C: RG178 (50Ω).

Wires type Exx19 for power lines (xx=AWG)

WIRE LENGTH FOR COMBO LINES (in cm)

Attention! Wire length in centimeters (1cm = 10mm = 0.394").

L in cm (inches)	L ≤ 10 L ≤ 3.940	10 < L ≤ 100 3.940 < L ≤ 39.40	L > 100 L > 39.40
TOLERANCE in cm (inches)	-0 / +0.5 -0 / +0.200	-0 / +3 -0 / +1.180	-0 / +5 -0 / +1.970

COLOUR CODE FOR COMBO LINES

Coaxial lines: **C:** Brown (mandatory for and only for coaxial lines).
Power: **F:** All Yellow. - **L:** All white. - **W:** 10 color repeat (see page 30 for colour code).

WIRE TYPE FOR SIGNAL LINES

1: E 2607, AWG 26, 7 strands, 600V.
4: E 2619, AWG 26, 19 strands, 600V.
6: E 2807, AWG 28, 7 strands, 600V.
8: E 3007, AWG 30, 7 strands, 600V.
A: E 2407, AWG 24, 7 strands, 600V.
C: E 2419, AWG 24, 19 strands, 600V.

COLOUR CODE FOR SIGNAL LINES

F: All yellow. - **L:** All white. - **W:** 10 color repeat (see page 30 for colour code).

WIRE LENGTH FOR SIGNAL LINES (in cm)

Attention! Wire length in centimeters (1cm = 10mm = 0.394").

L in cm (inches)	L ≤ 10 L ≤ 3.940	10 < L ≤ 100 3.940 < L ≤ 39.40	L > 100 L > 39.40
TOLERANCE in cm (inches)	-0 / +0.5 -0 / +0.200	-0 / +3 -0 / +1.180	-0 / +5 -0 / +1.970

HARDWARE

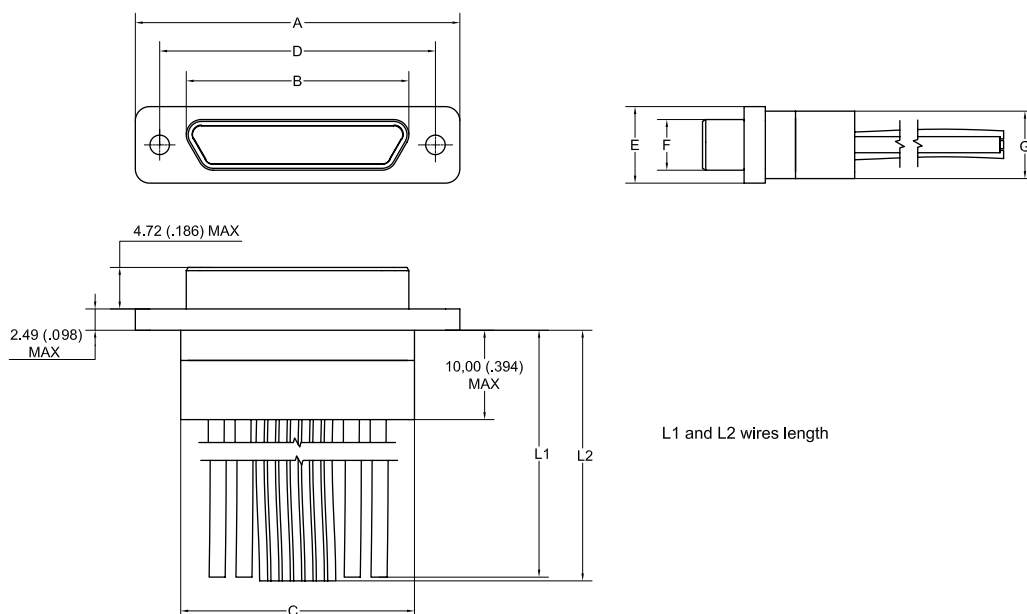
B: No hardware.
C: U-clips with low profile socket hex head jackscrews (removable).
D: U-clips with low profile slot head jackscrews (removable).
M: Low profile socket hex head jackscrews (removable).
N: High profile socket hex head jackscrews (removable).
S: low profile slot head jackscrews (removable).
FR: Float mount, rear panel mount (non removable).
Px (x: 1 to 5): Panel mount jackposts.
T: High profile slot head jackscrews (removable).
P: Jackposts (removable).
K: High profile slot head jackscrews (non removable).
L: Low profile socket hex head jackscrews (non removable).
F: Float mount, front panel mount (non removable).

See pages 190 to 200 for hardware description.

DIMENSIONS

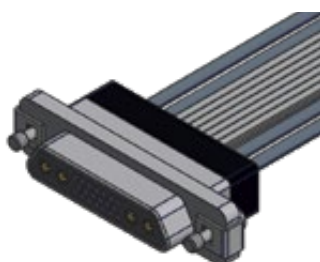
Dimensions are in millimetres (inches).

MALE connector

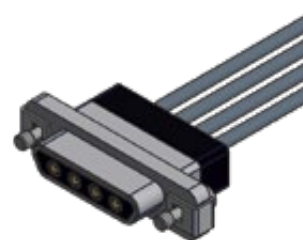


L1 and L2 wires length

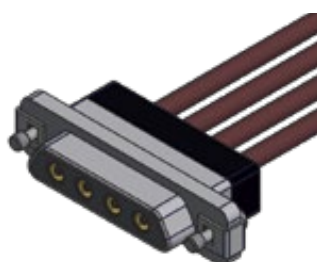
MALE PIGTAIL	A ± 0.25 ($\pm .010$)	B max	C $-0.46/+0.25$ ($-.018/+ .010$)	D ± 0.13 ($\pm .005$)	E ± 0.25 ($\pm .010$)	F max	G max
		Male				Male	
C1 or P1	36.20 1.425	24.99 .984	26.42 1.040	30.86 1.215	8.66 .341	5.79 .228	7.87 .310
C3 or P3	36.20 1.425	24.99 .984	26.42 1.040	30.86 1.215	8.66 .341	5.79 .228	7.87 .310
C8 or P8	29.85 1.175	18.64 .734	20.07 .790	24.51 .965	7.57 .298	4.69 .185	6.86 .270
C10 or P10	36.20 1.425	24.99 .984	26.42 1.040	30.86 1.215	8.66 .341	5.79 .228	7.87 .310



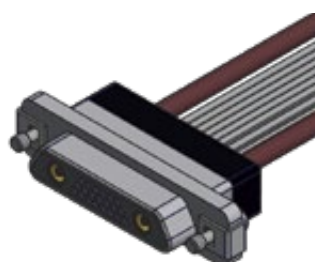
▲ COMBO 51 4 COAX S2.2 + 20 SIGN
MALE PIGTAIL (C10)



▲ COMBO 25 4 COAX S2.2
MALE PIGTAIL (C8)



▲ COMBO 51 4 COAX S3
MALE PIGTAIL (C1)

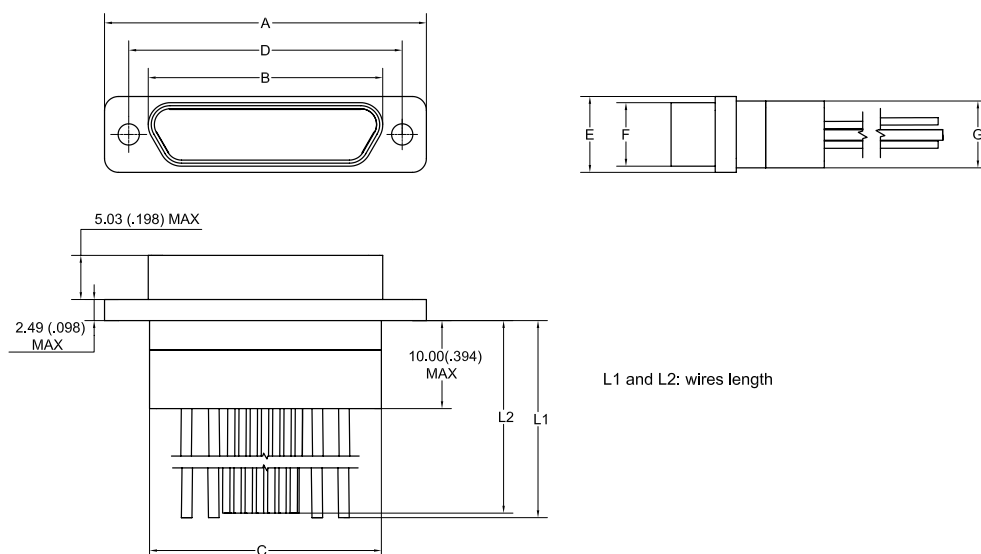


▲ COMBO 51 2 COAX S3 + 21SIGN
MALE PIGTAIL (C3)

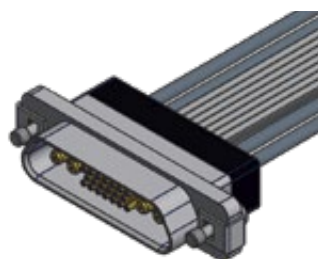
DIMENSIONS

Dimensions are in millimetres (inches).

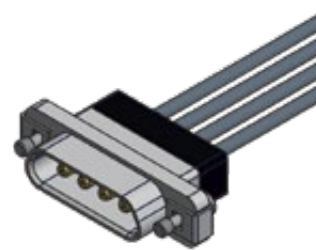
FEMALE connector



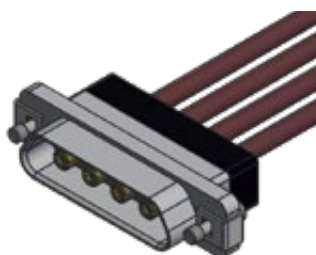
FEMALE PIGTAIL	A ± 0.25 ($\pm .010$)	B max Female	C $-0.46/+0.25$ ($-.018/+0.010$)	D ± 0.13 ($\pm .005$)	E ± 0.25 ($\pm .010$)	F max Female	G max
C1 or P1	36.20 1.425	26.70 1.101	26.42 1.040	30.86 1.215	8.66 .341	7.44 .293	7.87 .310
C3 or P3	36.20 1.425	26.70 1.101	26.42 1.040	30.86 1.215	8.66 .341	7.44 .293	7.87 .310
C8 or P8	29.85 1.175	20.35 .801	20.07 .790	24.51 .965	7.57 .298	6.35 .250	6.86 .270
C10 or P10	36.20 1.425	26.70 1.101	26.42 1.040	30.86 1.215	8.66 .341	7.44 .293	7.87 .310



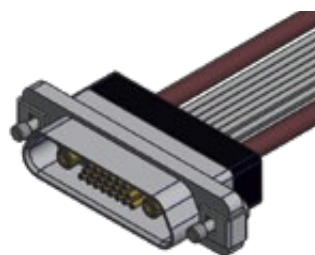
▲ COMBO 51 4 COAX S2.2 + 20 SIGN
FEMALE PIGTAIL (C10)



▲ COMBO 25 4 COAX S2.2
FEMALE PIGTAIL (C8)



▲ COMBO 51 4 COAX S3
FEMALE PIGTAIL (C1)



▲ COMBO 51 2 COAX S3 + 21 SIGN
FEMALE PIGTAIL (C3)

COMBO Micro-D
connectors

SPECIAL COMBO CONNECTORS

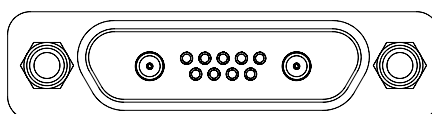
AXON' can develop on request special Combo Micro-D connectors based on all the standard shell sizes from 9 to 100 ways, or based on special shells such as the 120 way version or other custom configurations.

Combo Micro-D connectors can be offered as pigtails, as part of a complex harness or as PCB connectors, in either straight (BS style) or right angle versions (BR and CBR styles).

Some examples of special designs:

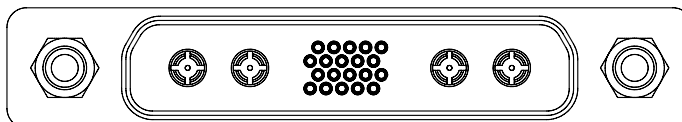
► Other possible arrangements

25 WAY



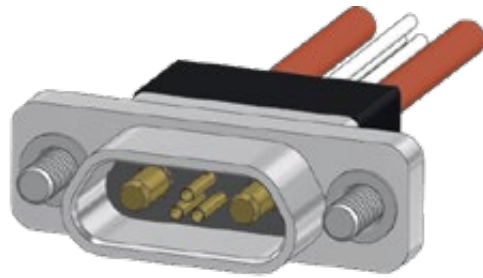
2 COMBO CONTACTS SIZE 2.2 mm + 9 SIGNALS

100 WAY

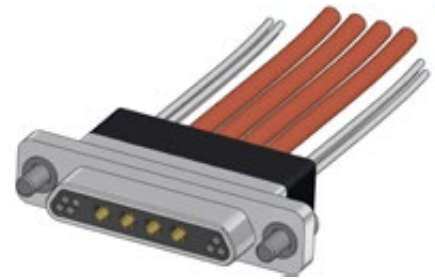


4 COMBO CONTACTS SIZE 3 mm + 20 SIGNALS

► Some examples of possible designs



2 POWER COMBO CONTACTS + 3 SIGNALS



4 POWER COMBO CONTACTS + 7 SIGNALS

COMBO-D
CONNECTORS

Rectangular
Micro-D connectors



8 COAXIAL COMBO CONTACTS + 16 SIGNALS IN A 120 WAY MICRO-D CONNECTOR



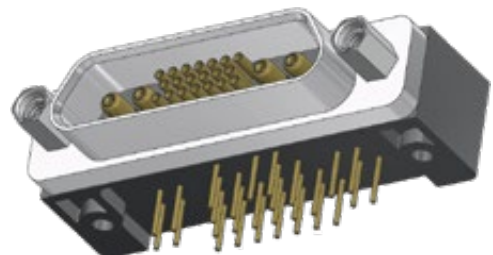
5 COAXIAL COMBO CONTACTS



2 POWER COMBO S2.2 + 2 COAXIAL COMBO S3 CONTACTS
+ 40 SIGNALS, INTEGRATED IN A HARNESS



LOW PROFILE COMBO IN A 31 WAY SHELL



COMBO CBR WITH REDUCED DEPTH

>> BRAZIL

**AXON' CABLE INDUSTRIA
E COMÉRCIO LTDA**
TEL.: +55 21 3596-8002
e-mail: salesbrazil@axon-cable.com

>> CANADA

AXON' CABLE INC. CANADIAN OFFICE
TEL.: +1 514 898 2044
e-mail: sales@axoncable.com

>> CHINA

AXON' INTERCONNECT LTD
TEL.: +86 757 2838 7200
FAX: +86 757 2838 7212
e-mail: sales@axon-interconnect.com

>> GERMANY

AXON' KABEL GMBH
TEL.: +49 7152-97992-0
e-mail: sales@axon-cable.de

>> HUNGARY

AXON' KÁBELGYÁRTÓ KFT.
TEL.: +36 76 508 195
e-mail: axon@axon-cable.hu

>> INDIA

**AXON' INTERCONNECTORS
AND WIRES PVT LTD**
TEL.: +91 806 816 2966
FAX: +91 806 816 2999
e-mail: sales@axon-cable.in

>> JAPAN

AXON' CABLE JAPAN OFFICE
TEL./FAX: +81 26 217 6728
e-mail: axon-japan@axon-cable.com

>> LATVIA

AXON' CABLE SIA
TEL.: +371 6540 78 91
e-mail: axon@axoncable.lv

>> MEXICO

AXON' INTERCONEX, S.A. DE C.V.
TEL.: +52 442 215 2713
e-mail: axon-mexico@axoncable.com.mx

>> SINGAPORE

AXON' CONNECT PTE LTD
TEL.: +65 62 50 31 69
e-mail: sales.singapore@axon-cable.com

>> SPAIN

AXON' CABLE SPANISH OFFICE
TEL.: +34 911 309 123
e-mail: axon-spain@axon-cable.com

>> UNITED KINGDOM

AXON' CABLE LTD
TEL.: +44 1383 421500
e-mail: sales@axon-cable.co.uk

>> USA

AXON' CABLE INC.
TEL.: +1 847 230 7800
e-mail: sales@axoncable.com



VISIT OUR WEBSITE
www.axon-cable.com



FOLLOW US



HEADQUARTERS
>> France

>> AXON' CABLE S.A.S.

2 ROUTE DE CHALONS EN CHAMPAGNE - 51210 MONTMIRAIL
TEL.: +33 3 26 81 70 00 - FAX: +33 3 26 81 28 83
e-mail : sales@axon-cable.com - www.axon-cable.com

axon'
cables & connectors