



## CIRCULAR CONNECTORS

PIGTAIL  
CONNECTOR

## PLASTIC SHELL

- Low cost plastic connector.
- 5 to 37 contacts.

## IDENTIFICATION CODE

MCA

P

12

S

4

L

050

**SERIES**

MCA : Micro Circular AXON' standard series.

**CONNECTOR TYPE**

P : LCP shell + potting 150°C.

L : LCP shell + potting 200°C.

**NUMBER OF CONTACTS**

05, 07, 12, 19, 37.

See pages 18&amp;19 for contact arrangements.

**CONNECTOR GENDER**

P : male (pin contacts).

S : female (socket contacts).

**WIRE TYPE**

For colour code V only

3 : M22759/11, AWG26.

19 strands, 600V.

F : E2607, AWG26, 7 strands, 600V.

Solid uninsulated wires

G : AWG 25 gold plated.

T : AWG 24 tin plated.

See page 20 for wire types.

**COLOUR CODE**

F : All yellow.

L : All white.

V : MIL-STD-681 striped (only for wire types 3 and F).

W : 10 colour repeat.

BLANK : if wire type is G or T.

See page 21 for colour code.

**WIRE LENGTH (cm)**

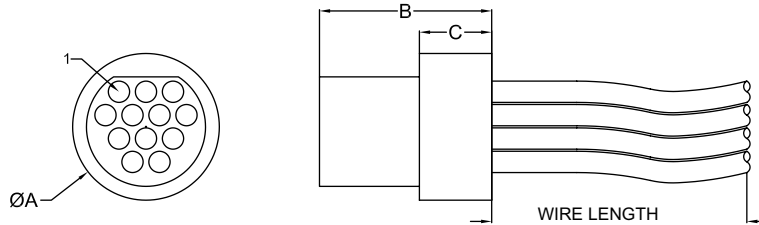
Beware ! wire length in centimetres - (1cm = 10mm = 0.394")

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

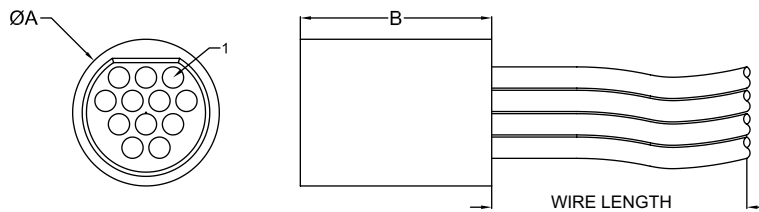
# DIMENSIONS

Dimensions are in millimetres (inches).

## MALE connector



## FEMALE connector



	Ø A ± 0.10 (.004)	B ± 0.10 (.004)		C max.
		Male	Female	
5 P / 5 S	5.60 .220	8.10 .319	9.00 .354	3.50 .138
7 P / 7 S	5.60 .220	8.10 .319	9.00 .354	3.50 .138
12 P / 12 S	6.86 .270	8.10 .319	9.00 .354	3.50 .138
19 P / 19 S	9.10 .358	9.00 .354	10.00 .393	4.50 .177
37 P / 37 S	11.75 .463	9.00 .354	10.00 .393	4.50 .177

## SUMMARY OF CHARACTERISTICS

ELECTRICAL & MECHANICAL PERFORMANCE		MATERIAL & FINISH	
CURRENT RATING	3 A max.	MOULDED SHELL	Liquid Crystal Polymer (LCP)
CONTACT RESISTANCE	8 mΩ max.	PIN CONTACT	Copper and beryllium copper, gold over nickel plating
INSULATION RESISTANCE	5000 MΩ min. @ 500 V DC	SOCKET CONTACT	Copper alloy, gold over nickel plating
DIELECTRIC WITHSTANDING VOLTAGE	Sea level : 600 V AC Altitude 21 km (70,000 ft) : 150 V AC	SOLDER CUP	Copper alloy, gold over nickel plating
CONTACT ENGAGING FORCE	170 g max. (6 oz)	ENCAPSULANT	Epoxy resin
CONTACT SEPARATING FORCE	14 g min. (0.5 oz)		
CONTACT RETENTION	2.26 kg (5 lbs)		
DURABILITY	500 mating cycles min.		