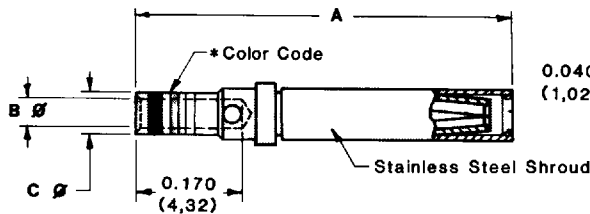


CRIMP REMOVABLE CONTACT CONNECTOR

SIGNAL CRIMP CONTACTS

CLOSED CRIMP BARREL

FEMALE CONTACT ("CLOSED ENTRY" DESIGN)



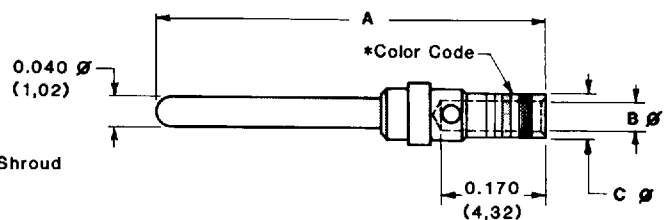
Material - Leaded nickel copper.

Plating - Gold flash over nickel or 0.000050 inch (1,25μ) gold over copper for military specification contacts.

*Color Code - ORANGE/BLUE/GRAY for military specification contacts.

PART NO.	WIRE SIZE AWG/(mm ²)	A	B Ø	C Ø
FC6020D	20/22/24 (0,5/0,3/0,25)	0.538 (13,67)	0.044 (1,12)	0.066 (1,68)
FC6026D	26/28/30 (0,12/0,08/0,05)	0.538 (13,67)	0.027 (0,69)	0.066 (1,68)
*M39029/63-368	20/22/24 (0,5/0,3/0,25)	0.538 (13,67)	0.044 (1,12)	0.066 (1,68)

MALE CONTACT



Material - Brass.

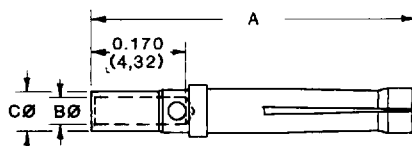
Plating - Gold flash over nickel or 0.000050 inch (1,25μ) gold over copper for military specification contacts.

*Color Code - ORANGE/BLUE/WHITE for military specification contacts.

PART NO.	WIRE SIZE AWG/(mm ²)	A	B Ø	C Ø
MC6020D	20/22/24 (0,5/0,3/0,25)	0.550 (13,97)	0.044 (1,12)	0.066 (1,68)
MC6026D	26/28/30 (0,12/0,08/0,05)	0.550 (13,97)	0.027 (0,69)	0.066 (1,68)
*M39029/64-369	20/22/24 (0,5/0,3/0,25)	0.550 (13,97)	0.044 (1,12)	0.066 (1,68)

Crimp contacts may be supplied kitted with connector or ordered separately.
See page 28 for crimp tool information.

FEMALE CONTACT ("ROBI-D OPEN ENTRY" DESIGN)



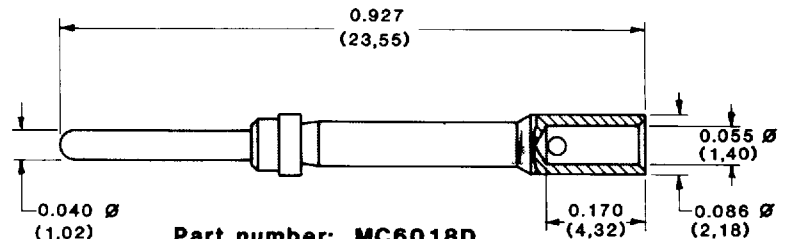
Material - Phosphor bronze.

Plating - Gold flash over nickel.

PART NO.	WIRE SIZE AWG/(mm ²)	A	B Ø	C Ø
FC6520D	20/22/24 (0,5/0,3/0,25)	0.538 (13,67)	0.044 (1,12)	0.066 (1,68)

MALE CONTACT

18 AWG (1,0mm²) max.



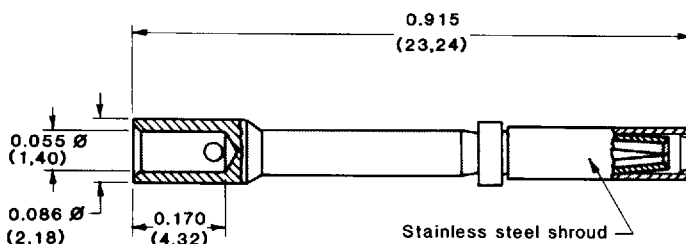
Part number: MC6018D

Material - Brass.

Plating - Gold flash over nickel.

FEMALE CONTACT ("CLOSED ENTRY" DESIGN)

18 AWG (1,0mm²) max.



Part number: FC6018D

Material - Phosphor bronze.

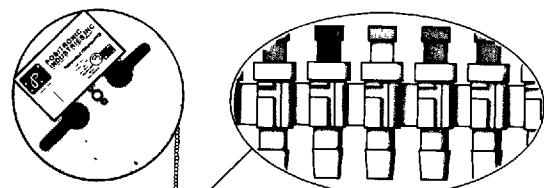
Plating - Gold flash over nickel.

DIMENSIONS ARE IN INCHES (MILLIMETERS)
ALL DIMENSIONS SUBJECT TO CHANGE

REELS FOR AUTOMATIC FEED PNEUMATIC CRIMP TOOLS

Contacts may be supplied in plastic carriers, packaged in reels holding 2,000 contacts for use with the automatic feed pneumatic crimp tools, catalog part number 9550-1. The same type carrier is used for both male and female contacts.

All male and female crimp contacts can be ordered in reels by adding letter "R" after the contact part number, such as MC6020DR for a male contact and FC6026DR for a female contact.



Enlarged section of plastic contact carriers



POSITRONIC
INDUSTRIES, INC.

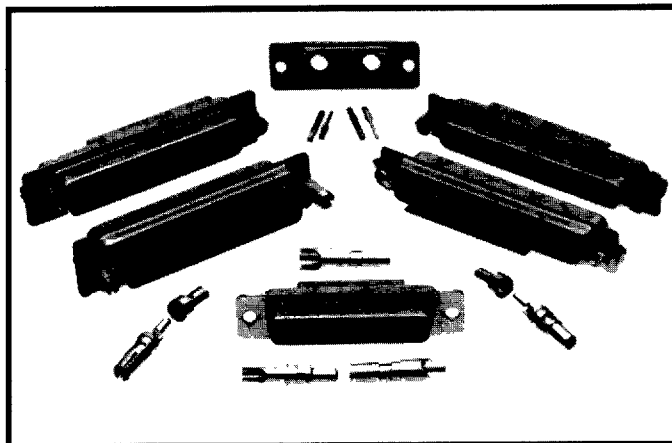
CBC Series

INDUSTRIAL AND MILITARY QUALITY SUBMINIATURE-D CONNECTORS FOR MILITARY AND SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS CRIMP REMOVABLE CONTACT SERIES

Size 20 Contacts
Crimp Removable
Military/Industrial
Quality Connectors
D.E.S.C. 85039

U.L. Recognized CSA Recognized
File #E49351 File #LR54219
IEC 807-3

Telecommunication
U.L. File #E140980



CBC Series connectors are military/industrial quality rectangular connectors designed for use in sheltered, mildly corrosive environments having a wide range of temperature, pressure and humidity changes. CBC Series connectors offer mixed crimp-removable contact combinations of power, shielded, high voltage and signal contacts within the same connector body. Refer to size 8 removable contacts power, shielded, and high voltage section, page 16 through 20 for technical characteristics. Ten connector variants are offered in six standard shell sizes.

A wide assortment of cable support hoods and locking systems is available from stock.

CBC Series connectors also offer a Blind Mating connector system for applications requiring connector couplings in recessed areas or for mobile power coupling systems.

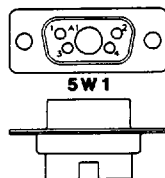
CBC Series connectors utilize precision machined contacts and they meet the applicable performance and dimensional requirements of IEC 807-3, D.E.S.C. 85039 and MIL-C-24308.

*CBC SERIES CONTACT VARIANTS

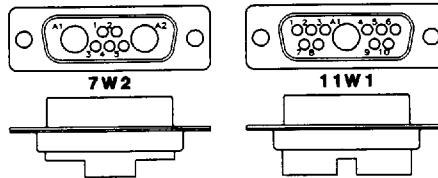
FACE VIEW OF MALE OR REAR VIEW OF FEMALE

*Note: Additional contact variants may be tooled at customer request.

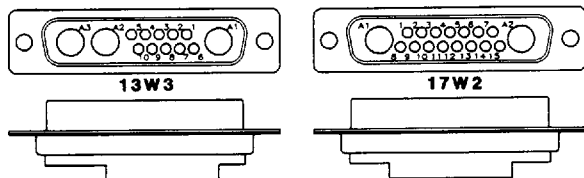
SHELL SIZE 1



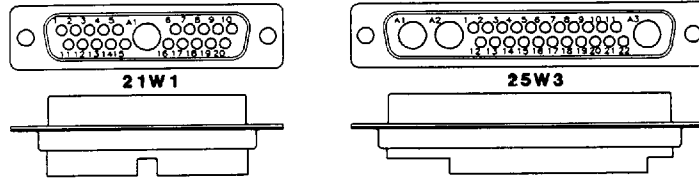
SHELL SIZE 2



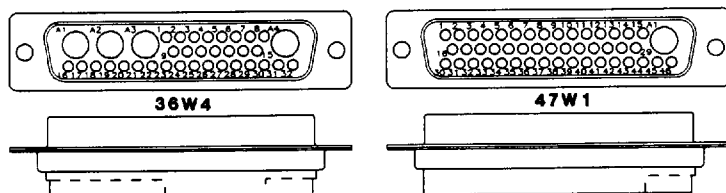
SHELL SIZE 3



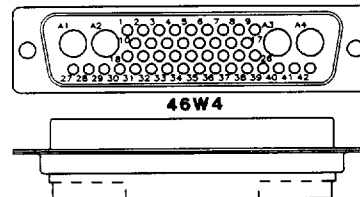
SHELL SIZE 4



SHELL SIZE 5



SHELL SIZE 6



CBC SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator:	Glass filled polyester per MIL-M-24519, UL 94V-0, blue color.
Signal Contacts:	Male contacts – precision machined brass alloy. Female contacts – precision machined high tensile copper alloy with stainless steel shroud or open entry Robi-D design.
Signal Contact Plating:	Gold flash over nickel plate and gold 0.000050 (1,25 microns) over nickel plate.
Power, Shielded and High Voltage Contacts:	Precision machined copper alloy male contacts and female contacts. Retainers of beryllium copper.
Power Contact Plating:	Gold flash over nickel.
Shielded and High Voltage Contact Plating:	Signal contact plating, gold 0.000030 inch (0,75 microns) over nickel. Shielded body plating, gold flash over nickel.
Shells:	Steel or brass with tin plate; zinc with dichromate seal, stainless steel passivated.
Mounting Spacers and Brackets:	Nylon plastic, or brass with tin plate; zinc with dichromate seal.
Jackscrew Systems:	Steel with zinc and dichromate seal, or clear zinc plate.
Hoods:	Composite and plastic UL94V-0, brass or steel with zinc plate and dichromate seal.

ELECTRICAL CHARACTERISTICS:

SIGNAL CONTACTS

Contact Current Rating:	7.5 amperes nominal.
Initial Contact Resistance:	0.008 ohms maximum.
Proof Voltage:	1000 V r.m.s.

POWER CONTACTS

Contact Current Rating:	10, 15, 20, 30 and 40 amperes nominal.
Initial Contact Resistance:	0.005 ohms maximum.
Proof Voltage:	1000 V r.m.s.

SHIELDED CONTACTS

Initial Contact Resistance:	0.008 ohms maximum.
Nominal Impedance:	50 ohms.
Insertion Loss:	-0.46 dB at 1 GHz -1.5 dB at 2 GHz
VSWR:	1.15 average at 1 GHz 1.56 average at 2 GHz

Above values measured using frequency domain techniques.

Proof Voltage:	1000 V r.m.s.
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HIGH VOLTAGE CONTACTS

Flash over Voltage:	3600 V r.m.s.
Proof Voltage:	2700 V r.m.s.
Initial Contact Resistance:	0.008 ohms maximum.

CONNECTOR

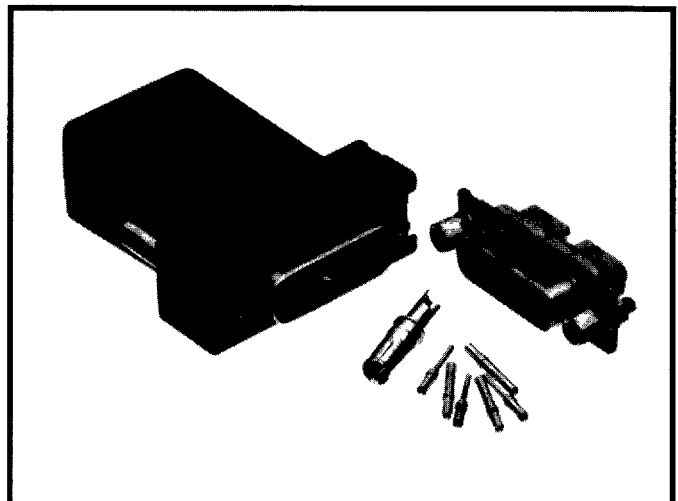
Insulator Resistance:	5 G ohms.
Clearance and Creepage Distance:	0.039 inch (1.0mm) minimum.
Working Voltage:	300 V r.m.s.

MECHANICAL CHARACTERISTICS:

Signal Contacts, Crimp Removable:	Size 20 contact male – 0.040 inch (1,02mm) diameter; Female closed entry design with stainless steel shroud or open entry Robi-D design.
Contact Retention In Insulator:	9 lbs. (40 N). Power, shielded and high voltage – 22 lbs. (98N)
Crimp Contact Terminations:	Closed barrel crimp, wire sizes 18 AWG (1,0mm ²) through 30 AWG (0,05mm ²)
Power Contacts, Removable, Crimp or Solder Termination:	Size 8 contact, male contact – 0.142 inch (3,61mm) diameter. Male and female contacts have terminations for wire sizes 8, 12 and 16 AWG.
Shielded Contacts, Removable:	See table of maximum cable sizes for contact termination dimensions, page 18.
High Voltage Contacts:	Straight and 90° terminations – 0.041 inch (1,04mm) minimum hole diameter.
Shells:	Male shells may be dimpled for EMI/ESD ground paths.
Polarization:	Trapezoidally shaped shells and polarized jackscrews.
Locking Systems:	Jackscrews.
Mechanical Operations, Signal Contacts:	CBC Series, 500 operations, open entry contact, 1000 operations, closed entry contact with 0.000050 (1,25 microns) gold plating. Per IEC 512-5.

CLIMATIC CHARACTERISTICS:

Temperature Range:	-55°C to +125°C.
Damp Heat, Steady State:	10 days.



CBC11W1M10Z00
WITH MS4012D CONTACT

CBC11W1F100T20
WITH FS4012D CONTACT