### Contacts

he Cannon DL Crimp and Buss contacts are available in addition to the factory installed Square Post/PCB mount version contacts. Crimp contacts are available loose or reeled, where as Buss contacts are available loose only.

The **Buss contacts** make the DL series capable of providing higher than 5 amps per line. The Buss contacts are pairs of contact lines which increase the amperage capability in increments of 10 amps up to 60 amps. The contacts have solder holes at the tail section for soldering #30-#18 AWG. The tail is also designed to accommodate a 1/8" crimp lug for wire sizes larger than #18.

The **Crimp contacts** are available in two plating types. The  $20\mu$  inch gold hermaphroditic version which is the economical choice for applications requiring over 100 milliamps to 5 amps. And the **50\mu inch gold BUMP to FLAT** version which offers the most versatile range of application requirements from micro-amps to 5 amps.

The **BUMP to FLAT** version was developed specifically to handle "dry circuit" requirements where the signal amperage is not enough to ensure a clean contact point. The **50** $\mu$  **inch gold BUMP to FLAT** version is mandatory for applications with signals below 100 milliamps. The Bump contact is installed in the Plug and the Flat contact is installed in the Receptacle. This combination increases the contact force and



ensures that the wiping point becomes the current carrying point after mating. The  $50\mu$  inch gold BUMP to FLAT version has become the standard

for all modern applications where power and low voltage signals are combined into one connector.

Contacts

### Materials and Finishes

Description	Material	Finish
Crimp Contact*	Copper Alloy	Gold over nickel or Selective gold/tin lead over nickel
Buss Contact	Copper Alloy	Gold over nickel
+0	50.50	

\* Order crimp contacts separately. See pages 52-53.



Cannon

# **ZIF** Connectors

# **Buss Contacts**

# 6 Pair/3Pair/1 Pair



- Designed for power distribution of more than 5 amps.
- Accommodates #30-#18 AWG in hole



Material:	Copper Alloy	
Finish:	20 $\mu$ inch in mating area/	
	gold flash on balance (terminating end)	

Note: For more information on tools and assembly, see pages 54-59.

#### Wire Termination — Solder



#### 0 m $\left|\right\rangle$ 0 Т

#### **Buss Contact**

1 Pair

Description	Part Number
1 Pair	030-7380-001
2 Pair	030-7380-002
3 Pair	030-7380-003
4 Pair	030-7380-004
5 Pair	030-7380-005
6 Pair	030-7380-006

#### Wire Termination — Crimp Lug



Contacts

## Crimp Contacts — Loose

#### Loose

 $50\mu$  inch gold contacts:

- Recommended for all applications.
- Offer the broadest amperage range.
  Mandatony for low aurent applications (
- Mandatory for low current applications (less than 100 milliamps).

Material:	Copper Alloy
Finish:	Gold over nickel
Extraction Tool:	274-7029-007
Insertion Tool:	None Required



Plug (Bump)



**Receptacle (Flat)** 

Plug 50µInch Gold Bump●	Receptacle 50µInch Gold Flat●	Plug and Receptacle 20µlnch Gold	Hand Tool (Page 55)
_	—	127000-2207 + *	<b>A</b>
030-2416-003	030-2494-001	030-2416-001	1
030-2410-003	030-2492-001	030-2410-001	2
030-2409-003	030-2491-001	030-2409-001	2
030-2415-003	030-2493-001	030-2415-001	3
	Plug 50µInch Gold Bump● 	Plug      Receptacle        50µInch Gold      50µInch Gold        Bumpe             030-2416-003      030-2494-001        030-2410-003      030-2492-001        030-2409-003      030-2492-001        030-2490-003      030-2491-001        030-2415-003      030-2493-001	Plug 50μInch Gold Bump●      Receptacle 50μInch Gold Flat●      Plug and Receptacle 20μInch Gold 20μInch Gold 200-2416-001 030-2416-001 030-2410-001 030-2410-001 030-2410-001 030-2409-001 030-2409-001 030-2409-001 030-2415-001 030-2415-001      Plug and Receptacle 20μInch Gold 300-2415-001      Plug and 80μInch Gold 300-2409-001 030-2415-001      Plug and 80μInch Gold 300-2415-001      Plug and 80μInch Gold 30μInch Gold 30μIn

Note: For more information on tools and assembly, see pages 54-59.

Non Insulation Support

+ Sold in lots of 100 pieces.

For low current applications (less than 100 milliamps) use 50µ inch gold (bump) contact on plug side and 50µ inch flat gold (flat) contact on receptacle side.

Contact Factory for tool.

\* Finish:  $20\mu$  inch gold in mating area/Gold flash on balance (terminating end).

Finish:  $20\mu$  inch gold in mating area/Tin lead on balance (terminating end).

#### Plug (Bump)

#### **Receptacle (Flat)**







Cannon

Dimensions are shown in mm (inch) Dimensions subject to change

# Crimp Contacts — Reeled

#### Reeled

 $50\mu$  inch gold contacts:

- Recommended for all applications.
- Offer the broadest amperage range.
- Mandatory for low current applications (less than 100 milliamps).

Material:	Copper Alloy
Finish:	Gold over nickel
Extraction Tool:	274-7029-007

Insertion Tool: None Required

Note: Automatic tooling is recommended for volume over 50K per year, see page 59.



Cor	ntacts

Wire Accommodation	Plug 50µInch Gold Bump ●	Receptacle 50µInch Gold Flat ●	Plug and Receptacle 20µlnch Gold	Hand Tool (Page 55)
40 thru 42 AWG	—	—	127000-2278*	<b>A</b>
36 thru 38 AWG	—	—	127000-1271*	<b>A</b>
28 thru 32 AWG	110238-0482	110238-0486	110238-0403 🗖	1
24 thru 26 AWG	110238-0480	110238-0484	110238-0401 🗖	2
20 thru 22 AWG	110238-0479	110238-0483	110238-0400	2
18 thru 20 AWG ♦	110238-0481	110238-0485	110238-0402	3

Note: For more information on tools and assembly, see pages 54-59.

Non Insulation Support

For low current applications (less than 100 milliamps) use 50µ inch gold (bump) contact on plug side and 50µ inch gold (flat) contact on receptacle side. •

Plug (Bump)

5

▲ Contact Factory for tool.

Finish:  $20\mu$  inch gold in mating area/Gold flash on balance (terminating end).

Finish:  $20\mu$  inch gold in mating area/Tin lead on balance (terminating end).

