

The 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 only.

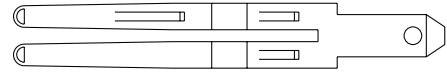
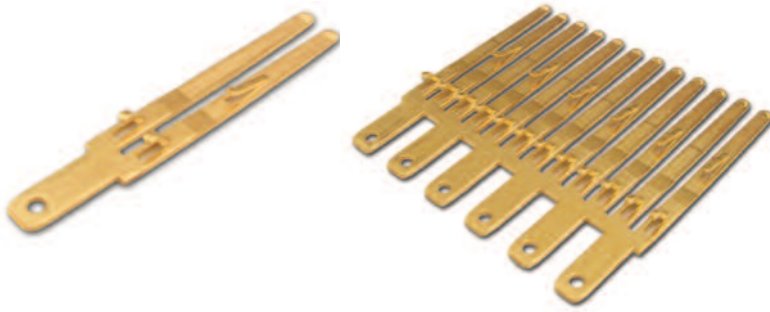
The Buss Contacts make the DL series capable of providing higher than 5 amps per line. The Buss contacts are pairs of contact lines which increase the amperage capability in increments of 10 amps up to 60 amps. The contacts have solder holes at the tail section for soldering #30-#18 AWG. The tail is 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 mil gold hermaphroditic version which is the economical choice for applications requiring over 100 milliamps to 5 amps, and the 50 mil gold bump to flat version which offers the most versatile range of applications 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 mil 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 mil gold Bump to Flat version has become the standard for all modern applications where power and low voltage signals are combined into one connector.



1 Pair



- Designed for power distribution of more than 5 amps.
- Accommodates #30-#18 AWG in hole 1,29-1,14 (.051-.045) for wire soldering.
- Accommodates 1/8 crimp lugs for larger wire sizes.

Buss Contact

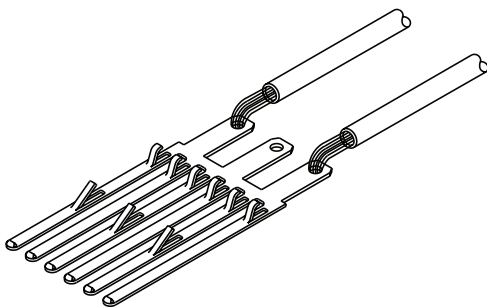
Description	Part Number
1 Pair	030-7380-001
2 Pair	030-7380-002
3 Pair	030-7380-003
4 Pair	030-7380-004
5 Pair	030-7380-005
6 Pair	030-7380-006

Material: Copper Alloy

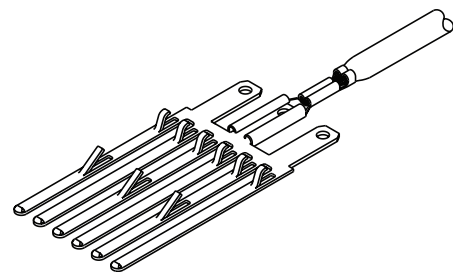
Finish: 20µ inch in mating area / gold flash on balance (terminating end)

Note: For more information on tools and assembly, see pages

Wire Termination - Solder



Wire Termination - Crimp Lug



Note: Contacts must be installed in the vertical position.

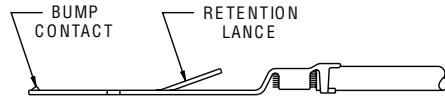
50 inch Gold Contacts

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

Materials and Finishes

Material:	Copper Alloy
Finish:	50 inch Gold over Nickel in mated area, Gold flash on balance (terminating end)

Plug (Bump)



Wire Type	Loose Part Number	Reeled Part Number
28 thru 32 AWG	030-2416-003	110238-0482
24 thru 26 AWG	030-2410-003	110238-0480
20 thru 22 AWG	030-2409-003	110238-0479
18 thru 20 AWG (1)	030-2415-003	110238-0481

Note: Contact can be used in both plug and receptacle for applications above 100 MA.

Receptacle (Flat)



Wire Type	Loose Part Number	Reeled Part Number
28 thru 32 AWG	030-2494-001	110238-0486
24 thru 26 AWG	030-2492-001	110238-0484
20 thru 22 AWG	030-2491-001	110238-0483
18 thru 20 AWG (1)	030-2493-001	110238-0485

Caution: Flat contacts can only be used in the receptacle

20 inch Gold Contacts

Materials and Finishes

Material:	Copper Alloy
Finish:	20 inch Gold over Nickel, in mated area, Gold flash on balance (terminating end)

Plug and Receptacle (Bump) (3)

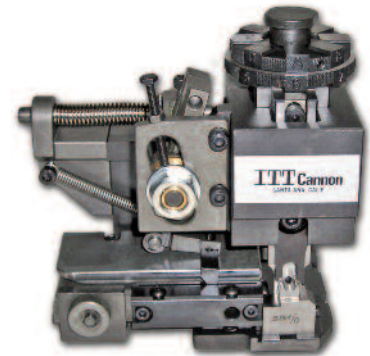
Wire Type	Loose Part Number	Reeled Part Number
36 thru 38 AWG (2)	127000-2207	127000-1271
28 thru 32 AWG	030-2416-001	110238-1030
24 thru 26 AWG	030-2415-001	110238-1029
20 thru 22 AWG	030-2410-001	110238-1028
18 thru 20 AWG	030-2409-001	110238-1027

- Note: (1) Non insulation support
 (2) 20 inch gold in mating area/Gold flash on balance (terminating end), RoHS compliant, sold in lots of 100 pieces.
 (3) 20 inch gold Bump contact are used for both Plug and Receptacle

A key feature of the Cannon DL connector series is easy contact termination, both in the field and in high-volume production. An ergonomically designed hand crimp tool is available for the low volume (loose contact) applications and will accommodate two different crimp contact sizes. To reduce overall costs, the crimp jaws are replaceable.

Automatic crimp and strip/crimp machines are available for high volume applications requiring a large number of crimps (50,000 crimps per year or more). These machines are leased to customers to eliminate the need for heavy investment. They also improve productivity for large pin count applications.

DL Crimp contacts are designed to be hand installed into the connector, no tooling is needed for the insertion process. Extraction tools are available for the removal of Crimp contacts for easy repair even in field applications. Extraction tools are also available for the Buss contacts, as well as the factory installed Square Post contacts.



Hand Crimp Tool



Hand Crimp Tool with Replaceable Jaw Set

Hand Tool	Description	Part Number
1	CHDLT 28-32	112108-0002
2	CHDLT 20-26	112108-0001
3	CHDLT 18-20	112108-0000

Crimp Tensile Strength

Crimp tensile strength is a measure of how hard a wire can be pulled without breaking or separating from the contact. This is the best way to verify that the wire is properly terminated to the contact. Periodic crimp tensile measurements are recommended to insure the integrity of the crimp. The table below contains the appropriate values for DL crimp contacts.

Wire Trim Dimension



Wire Size (AWG)	32	30	28	26	24	22	20	18
Tensile Min. (lbs)	1	1.5	3	7	10	15	19	30
Wire Trim Dimension "A"	3,30 (.130)	3,30 (.130)	3,30 (.130)	3,30 (.130)	3,30 (.130)	3,30 (.130)	4,06 (.160)	4,06 (.160)
Insulation Dia. Max	1,35 (.053)	1,35 (.053)	1,35 (.053)	1,65 (.065)	1,65 (.065)	1,88 (.074)	1,88 (.074)	1,88 (.074)

Dimensions shown in mm (inch)
Specifications and dimensions subject to change