

SPRING-LOADED CONNECTORS /
POGO PIN CONNECTORS

PCB CONNECTORS

DIL / SIL / TO SOCKETS

PGA / BGA / PLCC SOCKETS

CONTACTS

MIL CONTACTS

SPRING-LOADED CONTACTS

CUSTOM DESIGN

MIL CONTACTS

PRECI-DIP has tapped its unique expertise and tested know-how to develop new MIL socket contacts based on the clip technology.

Two socket contact technologies are available:

- hooded contacts using the reversed clip
- hoodless contacts using the Eagle Grip clip.

These contacts have successfully passed all the qualification tests according to AS39029 and are listed on the QPL.

We are also manufacturing the corresponding precision-machined pin contacts.



Hooded contacts using the reversed clip patented technology

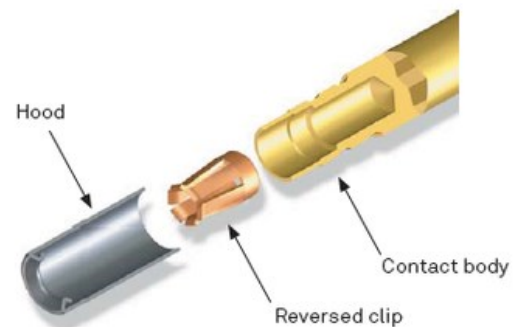
CONTACT DESIGN

The contact consists of three parts, separately manufactured and made of different base materials. This design allows to optimise the performance and to select the most appropriate production process individually:

- Contact body made of machined brass
- Beryllium-copper clip insert achieved by precision stamping process
- Protection hood made of deep-drawn stainless steel

Separate electroplating processes of body and clip allow the best cost-performance ratio (localized finish). The assembly of the three parts is then carried out on dedicated, fully automatic assembly lines.

Reversed clip contacts are presently available in size 12, 16, 20 and 22. This proprietary technology developed by PRECI-DIP, is protected by international patents.



ADVANTAGES AND CHARACTERISTICS

In comparison with the alternative slotted contact body design, the reversed clip concept has several advantages:

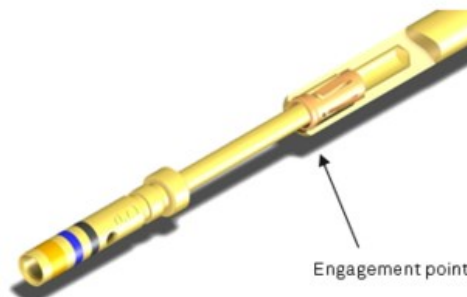
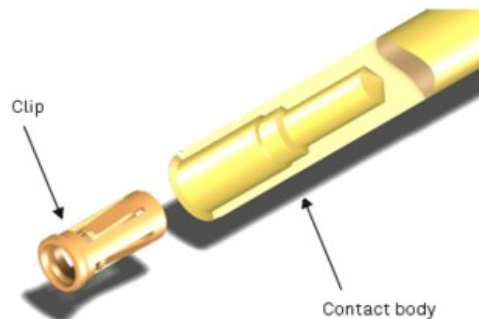
- Smaller difference between insertion and extraction force
- Reduced dispersion of the force values
- Higher redundancy at the level of the contact point, thanks to 6 or 8 contact fingers



Hoodless contacts using the eagle grip clip patented technology

CONTACT DESIGN

- The hoodless contact consists of two parts: the contact body and the clip (separate pressure member) are made from different base materials.
- The high-speed screw machined contact body is made of brass.
- The use of quality crimping brass renders the annealing operation unnecessary.
- The precision stamped and formed Eagle Grip clip is made of beryllium-copper.
- Separate electroplating processes of the body and clip offer the best cost-performance ratio.
- Automatic assembly lines are designed by our engineers to conduct the body and clip assembly.
- The clip is precisely positioned in the outer shell and firmly held in place between a shoulder and the crimp lip.
- In-line mechanical check is carried out on the assembly machine.
- Eagle Grip clip hoodless contacts are presently available in sizes 16, 20 and 22.
- This PRECI-DIP proprietary technology is protected by international patents.



ADVANTAGES AND CHARACTERISTICS

- 2-piece contact without hood
- Fully automatic assembly process with in-line mechanical check
- Localized finish: body and clip are plated separately
- High surface quality with a stamped and formed clip
- Precision rolling surface finish in the contact area
- Better contact redundancy thanks to 3 or 4 contact fingers
- Repeatability in the manufacturing process of the clip (tooling and stamping)
- Limited difference between insertion and extraction mating forces
- Narrow range of the force values
- Fully integrated manufacturing process on one single production site
- Swiss precision technology

Qualified product list : PRECI-DIP part numbers

SOCKET CONTACTS

CONNECTOR TYPE ACC. TO	MIL P/N	PRECI-DIP P/N	MATING SIZE	WIRE SIZE	CLASS
MIL-DTL-26482, Series 2	M39029/5-115	83181-7Q4-7110-B1	20	20	B
AS81703, Series 3	M39029/5-116	83191-7Q4-7210-B1	16	16	B
MIL-DTL-83723, Series 1, 3	M39029/5-118	83151-7Q4-7310-B1	12	12	B
MIL-DTL-83733					
MIL-DTL-12883/40, /41, /47, /48					
AS81714, Series II	M39029/22-191	83211-7Q4-7010-B1	22	22	B
MIL-C-81511, Series 3, 4 Class L	M39029/22-192	83231-7Q4-7110-B1	20	20	B
MIL-DTL-26500	M39029/32-248	83171-7Q4-7210-B1	16	16	B
MIL-DTL-26518, Class R					
MIL-C-38300					
MIL-DTL-26482, Series 1	M39029/32-259	83161-7Q4-7110-B1	20	20	A
MIL-DTL-38999, Series I, III, IV	M39029/56-348	83011-1P4-7010-B1	22	22D	B
	M39029/56-351	83021-1P4-7110-B1	20	20	B
	M39029/56-352	83031-1P4-7210-B1	16	16	B
	M39029/56-353	83041-1P4-7310-B1	12	12	B
MIL-DTL-38999, Series II	M39029/57-354	83101-7Q4-7010-B1	22	22D	B
MIL-DTL-24308	M39029/57-357	83341-7Q4-7010-B1	20	20	B
MIL-DTL-55302/68, /71, /75	M39029/57-358	83361-7Q4-7010-B1	16	16	B
MIL-DTL-83733					
MIL-DTL-24308	M39029/63-368 *	83121-7Q4-6110-01	20	20	A
MIL-DTL-12883/44, /45, /46	M39029/101-552	83431-7Q4-7010-B1	22	22	A
	M39029/101-553	83441-7Q4-7110-B1	20	20	A

*	Eagle Grip Clip
TYPE A	Copper alloy
CLASS A	Maximum operating temperature +125°C
CLASS B	Maximum operating temperature +200°C

PIN CONTACTS

CONNECTOR TYPE ACC. TO	MIL P/N	PRECI-DIP P/N	MATING SIZE	WIRE SIZE	CLASS
AS81714, Series I	M39029/1-100	82151-7Q4-01	16	22	B
	M39029/1-101	82161-7Q4-01	16	20	B
	M39029/1-102	82171-7Q4-01	14	16	B
	M39029/1-103	82181-7Q4-01	12	12	B
MIL-DTL-26482, Series 2	M39029/4-110	82071-7Q4-01	20	20	B
AS81703, Series 3	M39029/4-111	82081-7Q4-01	16	16	B
MIL-DTL-83723, Series 1, 3	M39029/4-113	82091-7Q4-01	12	12	B
MIL-DTL-83733					
AS50151, Series 3450	M39029/29-212	82111-7Q4-01	16	16	B
MIL-DTL-83723, Series 2	M39029/29-213	82121-6Q0-01	12	12	B
MIL-DTL-26500	M39029/31-627	82141-7Q4-01	20	20	B
MIL-DTL-26518, Class R	M39029/31-229	82101-7Q4-01	16	16	B
MIL-C-38300					
MIL-DTL-26482, Series 1	M39029/31-240	82051-7Q4-01	20	20	A
AS81703, Series 2	M39029/31-228	82131-7Q4-01	16	16	A
MIL-DTL-38999, Series I, II, III, IV	M39029/58-360	82011-7Q4-01	22	22D	B
MIL-DTL-24308	M39029/58-363	82021-7Q4-01	20	20	B
MIL-DTL-55302/69	M39029/58-364	82031-7Q4-01	16	16	B
MIL-DTL-83733	M39029/58-365	82041-7Q4-01	12	12	B
MIL-DTL-24308	M39029/64-369	82061-7Q4-01	20	20	A

Listed part numbers are of localized finish (except M39029/29-213). For overall plating please contact us.

TYPE A	Copper alloy
CLASS A	Maximum operating temperature +125°C
CLASS B	Maximum operating temperature +200°C

CAD CATALOG

Literature
Catalog
CAD catalog

ABOUT PRECI-DIP

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Contact
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