AS39029 QPL LISTED CONTACTS

FOR MIL/AERO APPLICATIONS WITH PATENTED REVERSED CLIP TECHNOLOGY

QUALIFIED PRODUCT LISTED MIL AS39029

NEW QPL PARTS

preci-dip

swiss world connects

REVERSED CLIP SOCKET CONTACT TECHNOLOGY

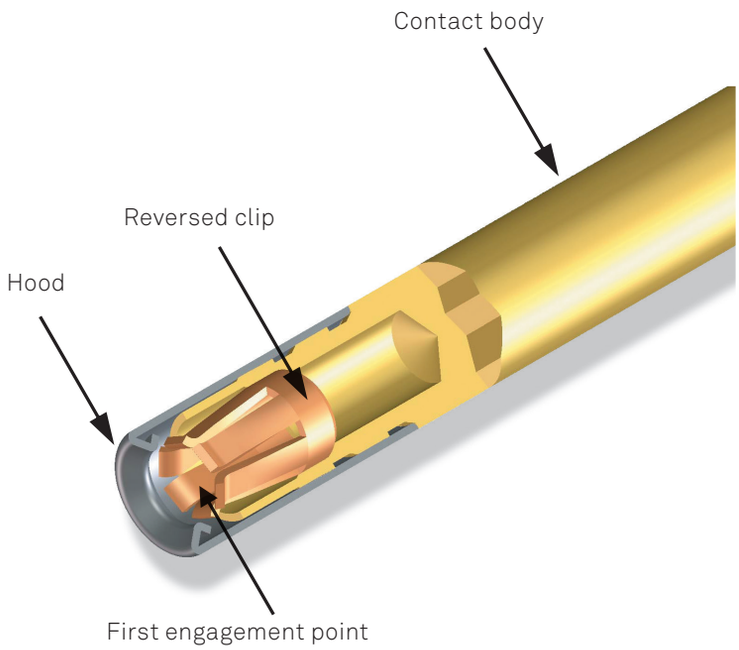
CONTACT DESIGN

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 forces
- Reduced dispersion of the force values
- Higher redundancy of the contact points, thanks to 6 or 8 contact fingers

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

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

TECHNICAL SPECIFICATIONS

• Operating temp.	-65°C to +125°C for Class A contacts -65°C to +200°C for Class B contacts	
• Material	Pin contact:	Type A : copper alloy Machined brass acc. to ASTM B121/B121M
	Socket contact:	Type A : copper alloy Machined brass acc. to ASTM B121/B121M
	Reversed clip:	BeCu acc. to ASTM B194
	Hood:	Corrosion-resistant steel
• Finish	Gold plated (min. 1.27µm in the contact area) acc. to ASTM B488, Type II, Code C, over 2.5 µm Ni acc. to AMS-QQ-N-290, Class 2	
	Silver plated acc. to ASTM B700, over 2.5 µm Ni acc. to AMS-QQ-N-290, Class 2 (M39029/29-213 only)	

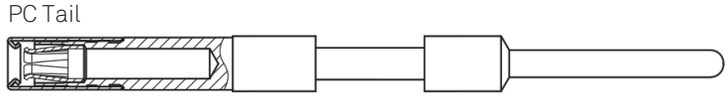
CUSTOMIZED PRODUCTS

We also provide cost effective customized versions, derived from the MIL QPL contacts, for heavy duty applications:

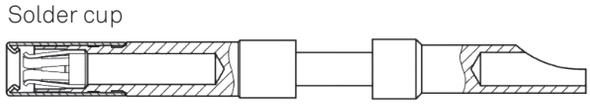
- Solder-cup or PC tail termination
- No color coding
- Other finish, Gold or Nickel only plating
- Hoodless version

Please consult for product availability.

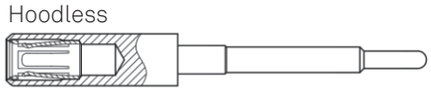
PC Tail



Solder cup



Hoodless



preci-dip

CONTACT TECHNOLOGY

MIL CONTACTS

QUALIFIED PRODUCT LIST : PRECI-DIP PART NUMBERS

SOCKET CONTACTS

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

NEW

Listed part numbers are of localized finish.

*** Eagle Grip Clip (hoodless)**

PIN CONTACTS

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

NEW

NEW

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

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LifeElectronics
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