

# AS39029 QPL LISTED CONTACTS

FOR MIL/AERO APPLICATIONS  
WITH PATENTED REVERSED CLIP  
TECHNOLOGY



preci-dip



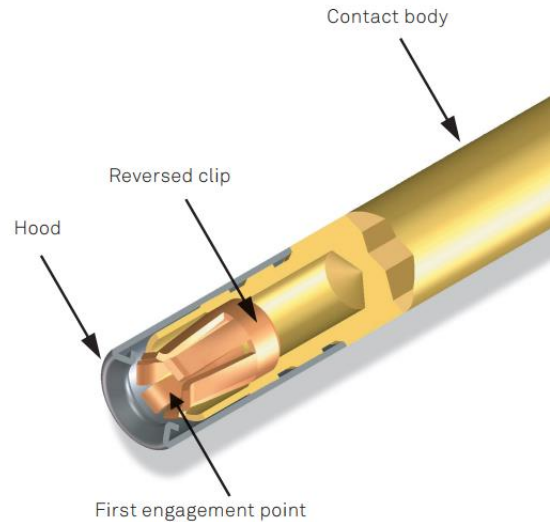
# REVERSED CLIP SOCKET CONTACT TECHNOLOGY

## CONTACT DESIGN

The contact consists of three parts, separately manufactured and made of different base materials. This design allows to optimize 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

## ADVANTAGES AND CHARACTERISTICS

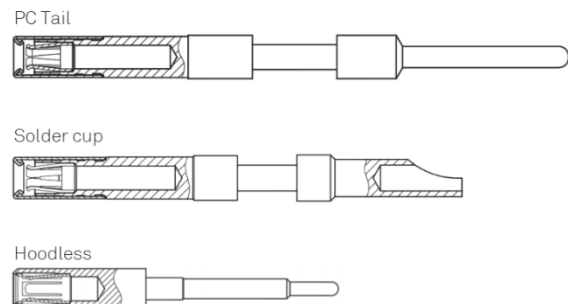
• Operating temp.	-65°C to +125°C for Class A contacts -65°C to +200°C for Class B contacts	
	Pin contact:	Type A : copper alloy Machined brass acc. to ASTM B121/B121M
• Material	Socket contact:	Type A : copper alloy Machined brass acc. to ASTM B121/B121M
	Reversed clip:	BeCu acc. to ASTM B194
	Hood:	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 qualification tests according to AS39029 and are QPL listed





preci-dip

# CONTACT TECHNOLOGY

## MIL CONTACTS

### QUALIFIED PRODUCT LIST:

#### 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	83341-7Q4-7110-B1	20	20	B
MIL-DTL-55302/68, /71, /75	M39029/57-358	83361-7Q4-7210-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

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 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