

# AS39029 QPL LISTED CONTACTS

FOR MIL/AERO APPLICATIONS  
WITH PATENTED REVERSED CLIP  
TECHNOLOGY



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 temperature range from :

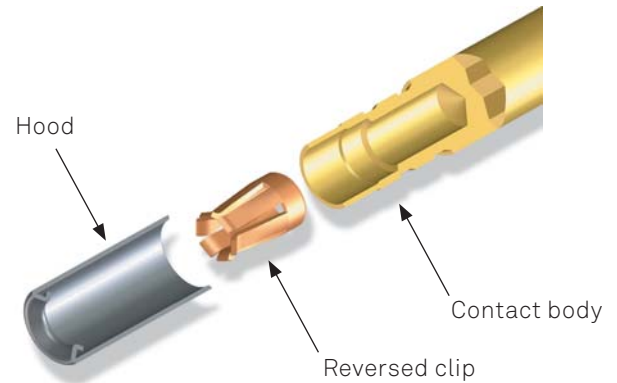
- 65°C to +125°C for Class A contacts
- 65°C to +200°C for Class B contacts

### MATERIALS & PLATING

#### PIN CONTACT

• Material:	Machined acc. to ASTM B121/B121M
• Overall finish:	Gold plated acc. to ASTM B488, Type II, Code C, min. 1.27 µm, over 2.5 µm Ni acc. to AMS-QQ-N-290, Class 2
• Localized finish:	Contact area: Gold plated acc. to ASTM B488, Type II, Code C, min. 1.27 µm, over 2.5 µm Ni acc. to AMS-QQ-N-290, Class 2 Other surfaces: Gold plated acc. to ASTM B488, Type II, Code C, over 2.5 µm Ni acc. to AMS-QQ-N-290, Class 2

## EXPLODED VIEW OF SOCKET CONTACT



#### SOCKET CONTACT

##### SLEEVE

• Material:	Machined brass acc. to ASTM B121/B121M
• Overall finish:	Gold plated acc. to ASTM B488, Type II, Code C, over 2.5 µm Ni acc. to AMS-QQ-N-290, Class 2

##### REVERSED CLIP

• Material:	BeCu acc. to ASTM B194
• Overall finish:	Gold plated acc. to ASTM B488, Type II, Code C, min. 1.27 µm, over 2.5 µm Ni acc. to AMS-QQ-N-290, Class 2

##### HOOD

• Material:	Corrosion-resistant steel
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# 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	M39029/5-115	83181-7Q4-7110-B1	20	20	A	B
AS81703, Series 3	M39029/5-116	83191-7Q4-7210-B1	16	16	A	B
MIL-DTL-83723, Series 1, 3	M39029/5-118	83151-7Q4-7310-B1	12	12	A	B
MIL-DTL-83733						
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	M39029/32-248	83171-7Q4-7210-B1	16	16	A	B
MIL-DTL-26518, Class R						
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	M39029/57-354	83101-7Q4-7010-B1	22	22D	A	B
MIL-DTL-24308						
MIL-DTL-55302/68, /71, /75						
MIL-DTL-83733						
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

*	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 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						
MIL-DTL-26500	M39029/31-229	82101-7Q4-01	16	16	A	B
MIL-DTL-26518, Class R						
MIL-C-38300						
MIL-DTL-26482, Series 1	M39029/31-240	82051-7Q4-01	20	20	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

Listed part numbers are of localized finish. For overall plating please contact us.

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

# ENJOY THE BENEFITS

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## HEADED FOR SUCCESS

Awards from prestigious institutions and customers. Major certifications. World-wide recognition. For ongoing innovation, perfect teamwork, environmental responsibility as well as entrepreneurial excellence and sustained growth. In short, for Swiss quality.

- Complete range of highly reliable interconnect components
- Diverse fields of application
- Effective management system
- In-house manufacturing –from raw material to finished product
- Highly skilled and motivated workforce
- Strong customer support
- Custom design
- Competitive pricing, flexibility and Swiss quality
- Worldwide presence
- Prestigious client base

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## AROUND THE WORLD

More than 100 Distributors around the world distribute PRECI-DIP products across the five continents.



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