

AS39029 HOODLESS CONTACTS

WITH PATENTED
EAGLE GRIP TECHNOLOGY



UNIQUE
EAGLE GRIP
HOODLESS CONTACT



preci-dip

swiss world connects



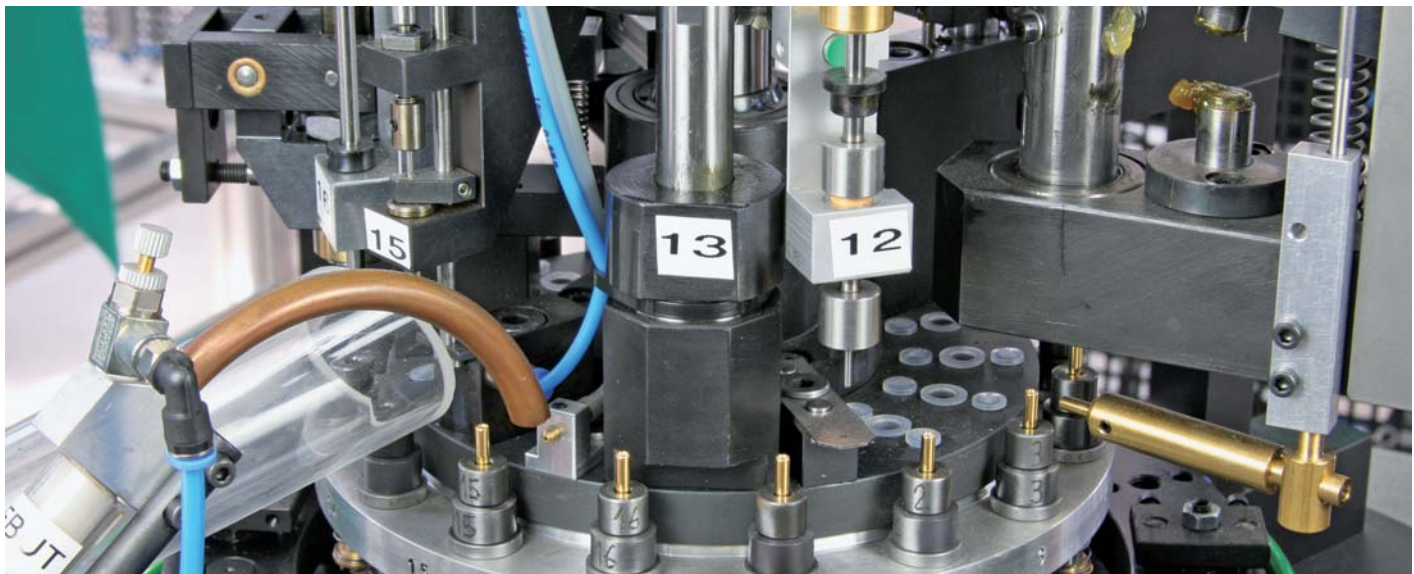
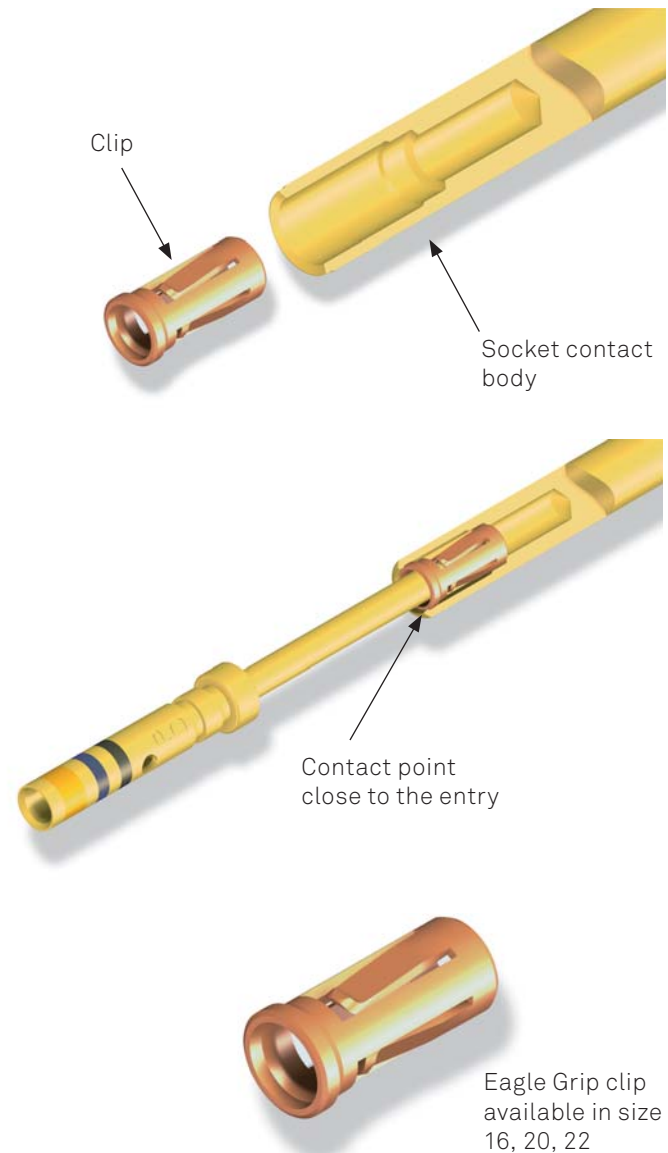
EAGLE GRIP SOCKET CONTACT TECHNOLOGY

INTRODUCTION

Over the years, PRECI-DIP has become Europe's leading producer of MIL AS39029 contacts. A Swiss maker of precision-machined contacts, PRECI-DIP has tapped its unique expertise and tested know-how to develop a new, high-performance 2-piece hoodless socket contact. Full control of the entire manufacturing process, a simplified assembly process and separate electroplating of the clip and contact body combine to offer a design with significant advantages over the slotted contact model.

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 and electrical checks are 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 an international patent.



In-line mechanical and electrical checks are carried out on the assembly machine

EAGLE GRIP SOCKET CONTACT TECHNOLOGY



CHARACTERISTICS AND ADVANTAGES OF EAGLE GRIP CONTACT TECHNOLOGY

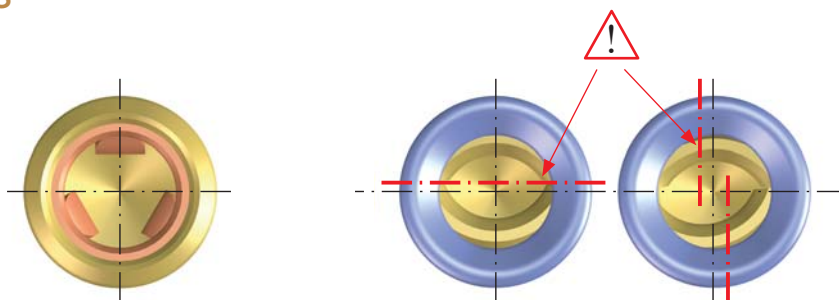
- 2-piece contact without hood
- Fully automatic assembly process with in-line mechanical and electrical checks
- Localized finish: body and clip are plated separately
- High surface quality with a stamped and formed clip
- Precision rolling surface finish in the contact area
- Better contact redundancy 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



CHARACTERISTICS AND ADVANTAGES VS. TRADITIONAL CONTACT WITH SPLIT LEAF ENTRY PRECIP-DIP HIGH QUALITY CONTACTS

OPTIMAL SYMMETRY AND CONCENTRICITY

Optimal symmetry and concentricity of the contact fingers thanks to the compact geometry of the stamped part.



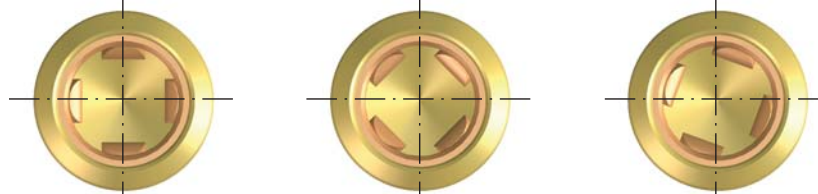
PRECIP-DIP contact with Eagle Grip - 3 fingers

Slotted contact

Self-alignment of mating pin thanks to multiple functions provided by the clip: guiding chamfer, entry diameter and contact fingers.

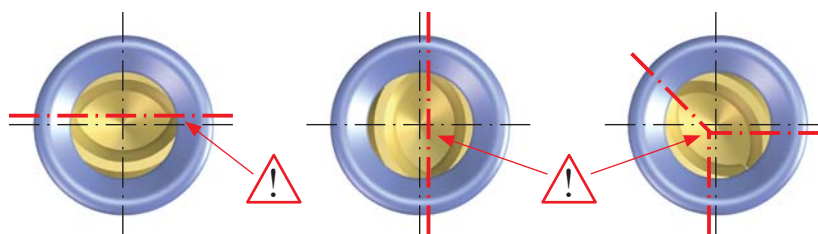


PRECIP-DIP contact with Eagle Grip - 3 fingers - size 20, 22



PRECIP-DIP contact with Eagle Grip - 4 fingers - size 16

Possible misalignment and offset shapes.



Slotted contact

EAGLE GRIP SOCKET CONTACTS



TECHNICAL SPECIFICATIONS

SOCKET CONTACT BODY

- Material: Machined brass C34500
- Overall finish: Gold plate acc. to ASTM B488, Type II, C, over 2.5 µm Ni

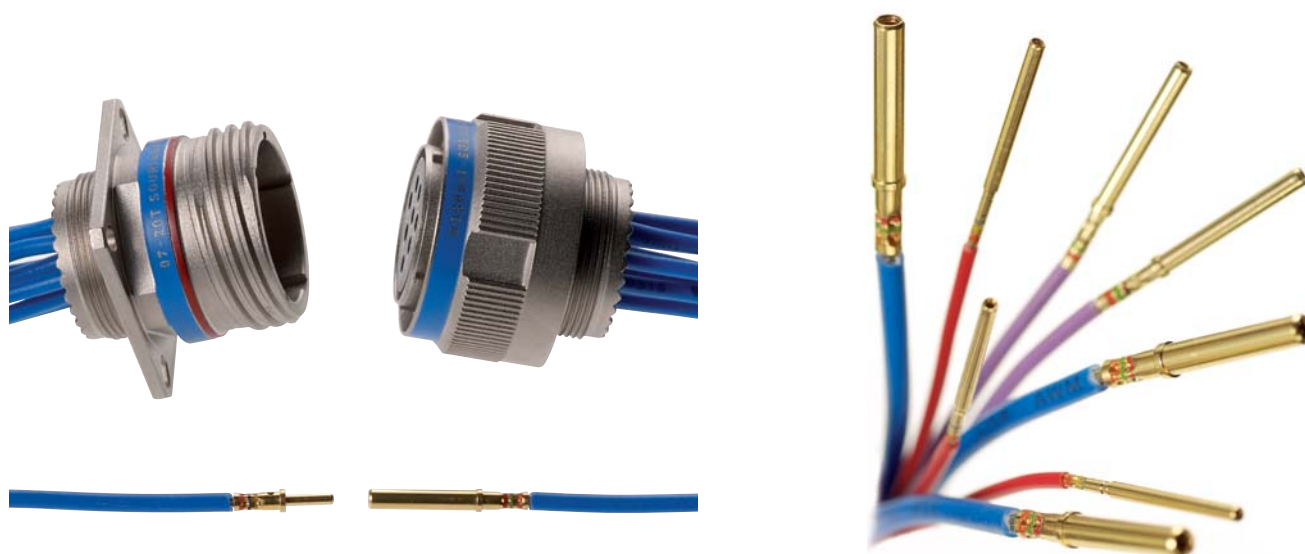
EAGLE GRIP CLIP

- Material: BeCu C17200
- Overall finish: Gold plate acc. to ASTM B488, Type II, C, min. 1.27 µm Au over over 2.5 µm Ni

SOCKET CONTACT PART NUMBERS

CONNECTOR TYPE ACC. TO	MIL P/N	PD P/N	SIZE		
MIL-DTL-38999 Series I, III, IV	AS/M39029/56-352	83071-7Q4-6210-01	#16		
	AS/M39029/56-351	83061-7Q4-6110-01	#20		
	AS/M39029/56-348	83051-7Q4-6010-01	#22		
MIL-DTL-38999 Series II MIL-DTL-24308 MIL-DTL-55302 MIL-DTL-83733	AS/M39029/57-354	83091-7Q4-6010-01	#22		
	MIL-DTL-24308	AS/M39029/63-368	83121-7Q4-6110-01	#20	
		MIL-DTL-26482 Series 2 AS 81703 Series 3 MIL-DTL-83723 Series 3 MIL-DTL-83733	AS/M39029/5-116	83141-7Q4-6210-01	#16
			AS/M39029/5-115	83131-7Q4-6110-01	#20
MIL-DTL-26482 Series 1	AS/M39029/32-259	83111-7Q4-6110-01	#20		
MIL-DTL-26482 Series 1 MIL-DTL-26500	AS/M39029/32-248	83081-7Q4-6210-01	#16		

We also manufacture the corresponding precision-machined pin contacts.



www.precidip.com