PRODUCT NUMBER: 0553-2-15-01-21-14-10-0

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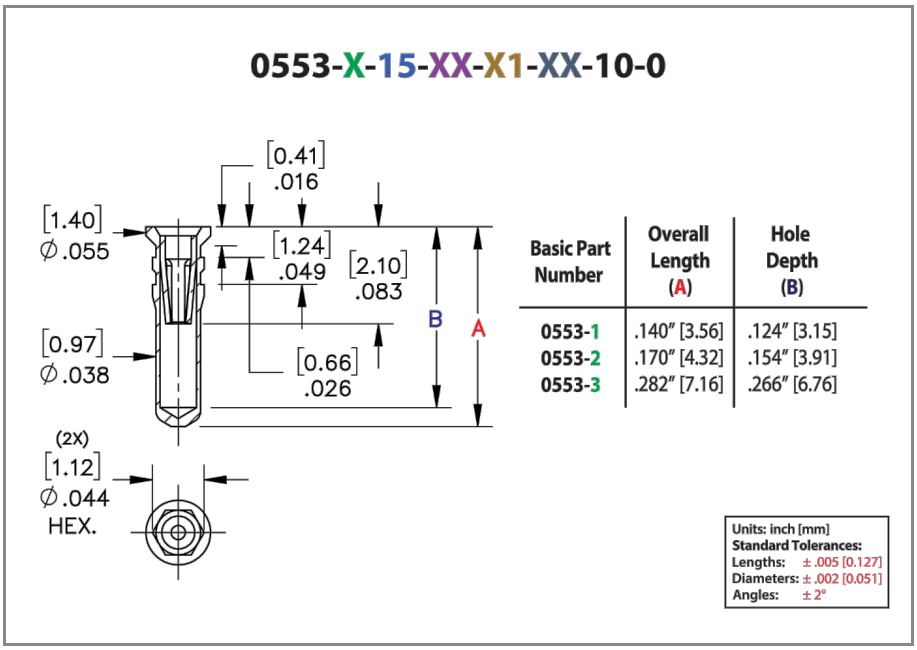
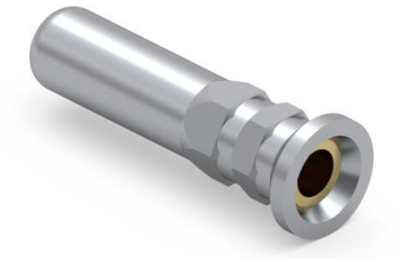
DATA SHEET





General Information

1	**Product Lifecycle:**	Active
	Product Family:	Pin Receptacle
2	**Description:**	Press-Fit Receptacle for Plated Through Hole (PTH)
3	**Shell Material:**	Brass Alloy
4	**Operating Temperature Range:**	-55/+125° C
5	**Contact Number:**	21 - Low Force 3 Finger Contact
	Contact Material:	Beryllium Copper
	Max Operating Temperature (Contact):	120.00° C
	Country of Origin:	USA
	ROHS:	No

Termination Style

Tail:	None
Tail Type:	None
Wire Termination:	N/A

0553-2-15-01-21-14-10-0 - SPECIFICATIONS

Product Attributes		
6	**Shell Plating:**	01 Shell Plating - 200-300 µ" Tin/Lead over Nickel
7	**Contact Plate:**	14 Contact Plating - 10 µ" Gold over Nickel
	Hole Type:	Closed-Bottom

Key Dimensions	
Accepting Lead Range:	.015"-.022" (0,381-0,559mm)
Barb/Knurl Diameter:	.058" (1,473mm)
Body Diameter:	.038" (0,965mm)
Body Length:	.154" (3,912mm)
Flange Diameter:	.055" (1,397mm)
Flange Length:	.016" (0,406mm)
Hole Depth:	.154" (3,912mm)
Overall Length:	.170" (4,318mm)

Electrical Specifications		
8	**Maximum Current:**	6A @ 30^{0} C Temp. Rise
	Maximum Derated Current:	4.80A
	Contact Resistance:	10.00mΩ Max

Mechanical Specifications		
9	**Mechanical life (Durability):**	1,000 Cycles Minimum
10	**Shock:**	No Elect. Discontinuity > 1µs @ 50g
11	**Vibration:**	No Elect. Discontinuity > 1µs @ 10-2000HZ, 20 G

Mounting Specifications		
12	**Mounting Feature:**	Press-Fit into a Plated Through Hole (PTH)
	Press-Fit Feature:	Hexagonal
	Mounting Hole Type:	Plated Through Hole (PTH)
	Mounting Hole:	.041" (1,041mm)
	Alternate Mounting:	N/A
	SMT Pad Size:	N/A

Packaging Information	
Packaging:	15 - Packaged in Bulk
Reel Size:	N/A

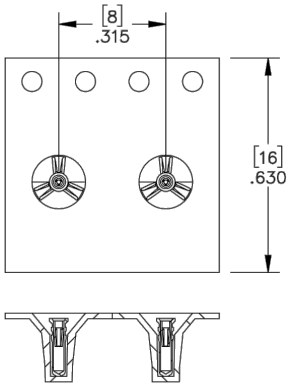
Environmental & Export Classifications	
REACH Status:	REACH Unaffected
ECCN:	Contact Factory
HTSUS:	8536.90.4000
Cage Code:	3N087
Moisture Sensitivity Level (MSL):	1 (Unlimited)
Special Handling Code:	UNDF
Prop 65:	N
Static Sensitive:	N

NOTES:

1. Part is Active and in Production, No Scheduled Obsolescence
2. Standard Tolerances:
   Lengths +/-.005" (0,13)
   Diameters: +/-.002" (0,051)
   Angles: +/- 2°
3. Brass Alloy 360 per ASTM B 16, or 385 per ASTM B455
4. Per IEC 60512-11-(4,-9,-10,-12)
5. Click the Link for Insertion/Extraction Force & Current/Temperature Derating Graphs
6. TIN/LEAD (93/7) per ASTM B 545 (Appendix X6.3.2.5 to eliminate whisker growth) Bright finish; NICKEL per ASTM B 689, Type 2 (Bright)
7. GOLD per ASTM B 488, Type 1 (99.7% min. gold), Code C (130-200 HK {Knoop hardness}), NICKEL per ASTM B 689, Type 2 (Bright)
8. Per IEC 60512-5-1, Current Carrying Capacity (evaluated at 30˚ C Temp. Rise)
9. Receptacles are capable of 1,000 Minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a receptacle contact.
10. Per IEC 60512-6-3: Test 6c: Shock
11. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)
12. The suggested mounting hole represents the plated through-hole size. Press-fit pins designed for plated through-holes require the bare board drill size to be .001” (.0254 mm) larger than the diameter of the press-fit feature. This is a general guideline; your application may require different specifications

ADDITIONAL PARTS, PACKAGING & ASSEMBLY INFO

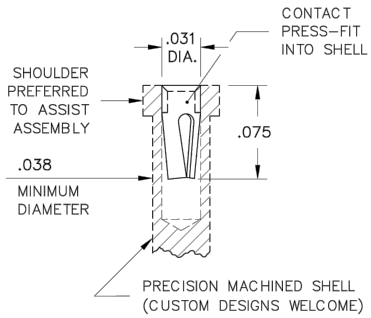
0553-2-57 Tape & Reel Details

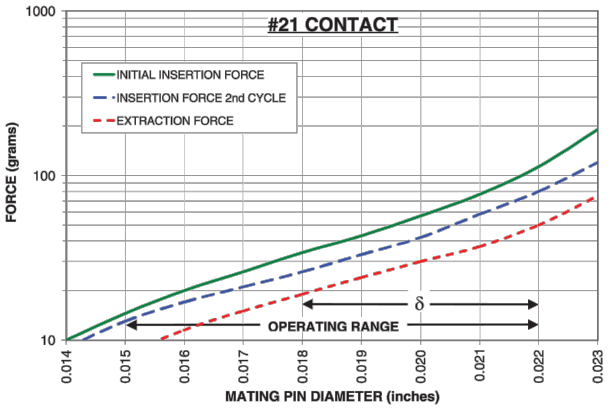


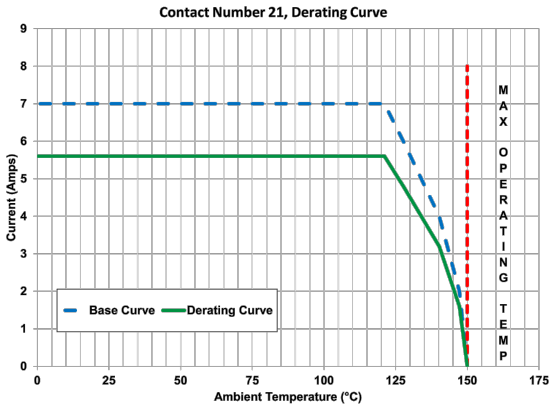
CONTACT:

#21 CONTACT

FOR .015”-.022” DIAMETER PINS (δ = .004)
3-FINGER (BeCu), GROUP A







The insertion / extraction force characteristics above were derived using a 30 microinch gold-plated contact and polished steel gauge pins having a bullet-shaped tip.
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application.
Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

Material	Beryllium Copper	**Fingers**	3
Compliancy (δ)	0.004	**Length**	.075" (1,905mm)
Maximum Current	6A @ 30° C Temp. Rise	**Maximum Operating Temp @ Max Current**	120.00˚ C
20% De-rated Maximum Current	4.80A	**Contact Resistance**	10.00mΩ Max
Contact Group	A		

ADDITIONAL NOTES AND SPECIFICATIONS

In the interest of improved design, quality and performance , Mill-Max reserves the right to make changes in its specifications without prior notice. Specifications and tolerances are provided wherever possible. The tolerance on dimensions of critical to function features is typically held tighter than the stated standard tolerances, such as press-fits, holes and lengths affecting the coplanarity of SMT products. Due to the wide variety of interconnects Mill-Max offers, the specific tolerances vary from product to product. If you need information regarding the tolerance of a particular part, please contact Technical Services.

RELATED LINKS AND DOCUMENTS

- Product Detail: 0553-2-15-01-21-14-10-0 - Press-Fit Receptacle for Plated Through Hole (PTH)
- **Application Note - Applications for Pins and Receptacles in Plated Through Holes**
- Environmental Compliance: https://www.mill-max.com/rohs