ECN FJ00-2308-95

REVISION RECORD

DATE

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DIN 47297 Series 1.0/2.3 Type "D"

- 3. Requirements:
- 3.1 Design and Construction:

Product shall be of the design, construction and physical dimensions specified in the applicable product drawing.

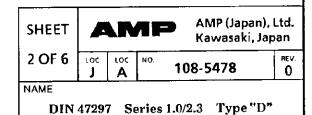
- 3.2 Materials:
  - A. Contact:
- Male
- Brass
- **Fimale**
- Bellum Copper Alloy
- B. Housing: Non
- C. Other:
  - Shell
- Brass

:

- Inner Guide
- Bellum Copper Alloy
- Ferrule
- Brass

- 3.3 Ratings:
  - A. Voltage Rating
- 350 V AC (50 Hz)
- B. Temperature Rating
- -40 °C to 85 °C
- C. Character Inperdance
- $50\,\Omega$
- 3.4 Performance and Test Descriptions:

The product shall be designed to meet the electrical, mechanical and environmental performance requirements specified in Fig. 2. All tests shall be performed in the room temperature unless otherwise specified.



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7.8	3.5 Test Requirements and Procedures Summary :							
108-5478	Para. Test Items			Requir	ements	Procedures		
108	3.5.1	Confirmation of Product	Product shall be conforming to the requirements of applicable product drawing and Application Specification.			Visually, dimensionally and functionally inspected per applicable quality inspection plan.		
NUMBER:	· · · · · · · · · · · · · · · · · · ·	<u> </u>		Electrica	l Requirements			
NUN	3.5.2	Termination Resistance (Low Level)				Subject mated connector to 20 mV Max. open circuit at 10 mA.		
Customer Release		Insulation Resistance	1000 MΩ Min. (Initial) 200 MΩ Min. (Final)			Impressed voltage 500 V DC.  Test between adjacent circuits of unmated connectors.  AMP Spec. 109-5302		
SECURITY CLASSIFICATION:	3.5.4	Dielectric withstanding Voltage	No creeping discharge nor flashover shall occur.			750 VAC for 5 minute. Test between adjacent circuits of unmated connectors. AMP Spec. 109-5301		
	3.5.5	Retain Low	DC~2 GHz: 0.1 Max.					
		Mechanical Requirements  .5.6 Crimp Tensile Strength Wire size Crimp Tensile (min.						
	3.5.6			Crimp Tensile (min.)	Apply an axial pull-off load to crimpe			
			mm²	(RG)	N (kgf)	wire of contact secured on the tester,  AMP Spec. 109-5205		
			4.08	17974 316/U	25 (2.55)	Condition		
	3.5.7	Contact Retention	0.2 N (0.02 kgf) Min.			Apply an axial pull-off load to crimped		

Fig.2 (to be continued)

wire.

AMP Spec. 109-5212

SHEET	ET AMP (Japan Kawasaki, J					
3 OF 6	ιος <b>j</b>	LOC <b>A</b>	NO53 108-5478	REV.		
NAME						
DIN	4729	7 S	eries 1.0/2.3 Type "D"			

	AMP	J-	523	(Rev.	MAR	91)
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CLASSIFICATION:

	Para.	Test Items	Requirements	Procedures
	3.5.8	Connector Mating Force	10 N (ozkgf) Max.	Operation Speed: 100 mm/min.  Measure the force required to mate connectors.
	3.5.9	Connector Unmating Force	0.9 N (0.09 kgf) Min.	Operation Speed: 100 mm/min. Measure the force required to unmate connectors.
	3.5.10	Durability (Repeated Mate / Unmating)	200 mΩ Max. (Final)	Operation Speed: 1500 cycles/hr No. of Cycles: 500 cycles. AMP Spec. 109-5213
Release	3.5.11	Vibration (High Frequency)	200 mΩ Max. (Final)	Vibration Frequency: 10~2000/15 min. Vibration Direction: X-Y-Z Duration: 2 hours each

Fig.2 (End)

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4 OF 6 Loc Loc No. 108-5478 0

NAME

DIN 47297 Series 1.0/2.3 Type "D"

## 3.6 Product Qualification Test Sequence

	Test Group			
Test of Examination	1	2		
	Test Seq	Test Sequence (a)		
Confirmation of Product	1	1		
Termination Resistance (Low Level)	2.9	3		
Dielectric Strength	4			
Insulation Resistance	3			
Retain Low	5			
Vibration (High Frequency)		2		
Connector Mating Force	6	-		
Connector Unmating Force	7.			
Contact Unmating Force	11			
Crimp Tensile Strength	10			
Durability (Repeater mate/Unmate)	8			

(a) Numbers indicate sequence in which tests are performed.

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5 OF 6	LOC J	LOC <b>A</b>	NO. 1	08-5478	REV.
NAME		-			
DIN	4729	7 S	eries 1.0	/2.3 Type "D'	•

The applicable product descriptions and part numbers are as shown Appendix 1

Product Part No.	Desctiption				
100080-2	DIN 47297,	1.0/2.3	Siemence Type Male "D"		
100094-2	DIN 47297,	1.0/2.3	Siemence Type Female "D"		
100096-1	DIN 47297,	1.0/2.3	Siemence Type R/A "D"		

Appendix 1

SHEET AMP (Japan), Ltd. Kawasaki, Japan 6 OF 6 Loc J No. 108-5478 0

DIN 47297 Series 1.0/2.3 Type "D"