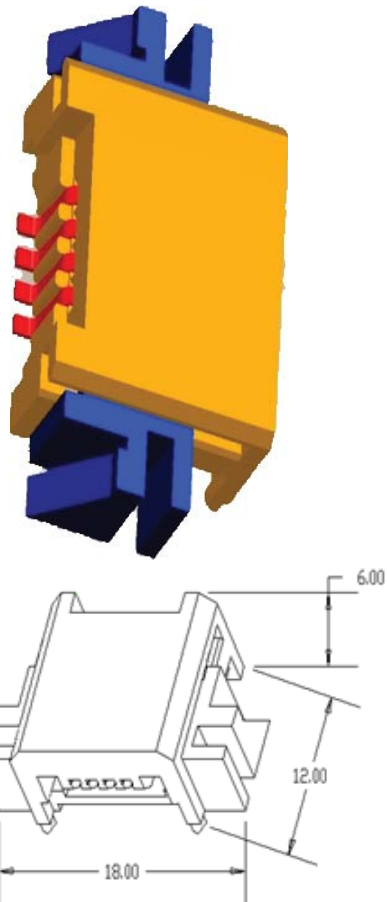
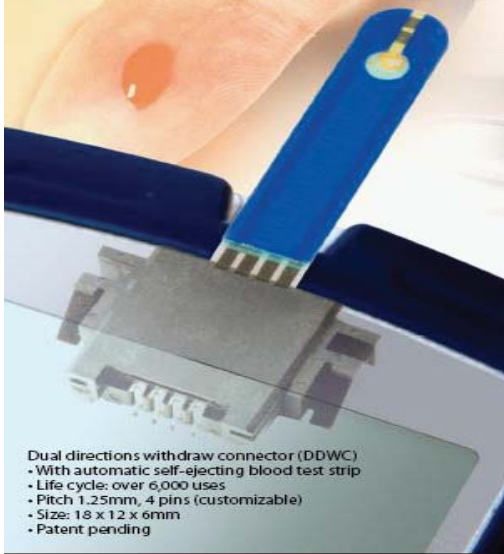


Ranoda Technology, LLC

Blood Glucose Meter Connector Application



New Innovative Medical Purpose Connector For Blood Glucose Monitoring Meters.

"The Dual Directions Withdraw Connector"

1. Ejects The Test Strip Without Physical Contact To Fingers And Hand.
2. Ejects The Testing Strip From The Vertical And Horizontal Direction.
3. Connector Designed For Adaptation To The Monitor Design.
4. Designed For 5000 Plus Cycle Uses.
5. Economical Design For Cost Savings.
6. Contact Spacing (Pitch) Is 1.25mm For The 4 Contact Design.
(Custom Contact Designs Available Upon Request)
7. Compact Design.
8. Patent Pending.

PRODUCT SPECIFICATIONS

1. SCOPE

1.1. Name

Medical Connector

1.2. Contents

This specification covers the performance, tests and quality requirements for the DDWC-12-04 Connector

1.3. Qualification

When tests are performed on the subject product line, the procedures specified by Ranoda Technology specifications shall be used. All inspections shall be performed using the applicable inspection plan and product drawing.

2. APPLICABLE DOCUMENT

Unless otherwise specified, the latest edition of the document applies. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

3. REQUIREMENTS

3.1. Design and Construction

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

3.2. Materials

- A. Housing: Thermoplastic or High Temp, UL94V-0
- B. Cover: Thermoplastic or High Temp, UL94V-0
- C. Contact: Copper Alloy, Tin plated over Nickel under plating

3.3. Ratings

- A. Voltage: 500 VAC
- B. Current: 1A Max
- C. Temperature: -20°C ~ +85°C

3.4 PERFORMANCE REQUIREMENT

The product shall be designed to meet the electrical, mechanical and environmental performance requirements specified. All tests shall be performed at ambient environmental conditions.

3.5 Test Requirements and Procedures Summary

Test Item	Requirements	Procedure
1 Examination of Product	Meets requirements of product drawing. No physical damage.	Visual Inspection
ELECTRICAL REQUIREMENTS		
2 Contact Resistance	20 milliohm Max (Initial)	Subject mated contacts assembled in housing to 20 mV Max open circuit at 10mA Max. EIA-364-06C
3 Dielectric Withstand Voltage	No creeping discharge	500 VAC for 1 minute test between adjacent circuits of unmated connector EIA-364-20B
4 Insulation Resistance	500 Megaohm Min	Apply 500 VDC. Test between adjacent circuits of unmated connector EIA-364-21C
MECHANICAL REQUIREMENTS		
5 Insertion Force Removal Force	<=0.2 kgf Avg >=0.08 kgf Avg	Operation Speed 25.4mm/min. Measure the force required to mate connector EIA-364-13C
6 Durability	No defects. Contact resistance <30 milliohm	Operation Speed 25.4mm/min. 10 Cycles – Durability EIA-364-09C
7 Solderability	Solder wet ability Coverage >90%	Solder temperature 245°C±5°C; Duration 5±1 sec EIA-364-52
ENVIRONMENTAL REQUIREMENTS		
8 Soldering Recommendations	-----	Hand soldering – Avoid flux to assure slider operation.

