

Product Specification

 P/N: **D2541 系列**

The subject products should meet the following requirements when tested under the condition of involving all circuits with terminals crimped on the specified maximum size wire.

1. Electrical Performance

	Item	Test Condition	Requirement
1-1	Rated voltage and current	When used maximum size wire.	250V , 3A
1-2	Contact resistance	Between both ends of mated terminals Dry Circuit of DC 50mV Max. 50mA Max.	10mΩ Max.
1-3	Dielectric strength	When applied AC 1500V 1 minute between adjacent terminals or ground.	No change

2. Mechanical Performance

	Item	Test Condition		Requirement	
2-1	Insertion force	Mating speed : 25 ±3 mm / minute.		2.0 lbs Max.	
2-2	Extraction force	Disengaging speed : 25 ±3 mm / minute.		0.8 lbs Min.	
2-3	Durability	When mated up to 30 cycles by the rate of 10 cycles per minute.	Contact resistance	Less than twice of initial	
			Insertion / Extraction force	Refer (2-1) (2-2)	
2-4	Terminal / Housing retention force	Apply axial pull out force on the terminal assembled in the housing. Retention speed : 25 ±3 mm / minute.		1.0 kg Min.	
2-5	Wire size	Specified wire size	AWG	#22 ~ #28	
			Unit : pounds(Min.)	parallel	perpendicular
2-6	Terminal tensile strength	Disengaging speed : 25 ±3 mm / minute.	# 22(0.3-0.4 mm ²)	12	3
			# 24(0.2 mm ²)	8	1
			# 26(0.12-0.15 mm ²)	6	1
			# 28(0.08-0.09 mm ²)	4	1

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	Item	Test Condition		Requirement
3-1	Salt spray	Temp : 35 ±2℃, Solution : 5 ±1%, Spray time : 48 ±4 hrs. Measurement must be taken after water rinse.	Contact resistance	Less than twice of initial
			Appearance	No significant corrosion
3-2	SO ₂ gas	24 hrs. in sulfur dioxide gas(SO ₂) 50 + 5 ppm at 40 ±2℃	Contact resistance	Less than twice of initial
3-3	NH ₄ gas	40 Min. in saturated. ammonia gas by 28% liquid ammonia at 25 ±2 ℃	Contact resistance	Less than twice of initial
			Appearance	No damage

4. Ambient Temperature Range : - 40℃ ~ 105℃

5. Construction , Dimension and Material :

Specified by the attached drawing.