

KinKuo Electronics Co.,Ltd

DH Series Connector

■Specifications

Ratings	Current rating		0.5A		Operating temperature range		-25℃ to +85℃	
	Voltage rating		125 V AC		Storage temperature range		-25℃ to +60℃	

Item	Specification						Conditions	
1.Contact resistance	1	50mø max.(IDC type) 65mø max.(Solder type)					100mA(DC or 1,000Hz)	
2.Insulation resistance	1000Mø min.						100 V DC	
3.Withstanding voltage	No flashover or insulation breakdown						250 V AC/1minute	
4.Insertion and with drawal forces		17pos.	27pos.	37pos.	51pos.	Measured by applicable connector.		
	Insertion f.	25N max.	30N max.	36N max.	43N max.			
	with drawal f.	2.6N min.	3N min.	3.3N min.	3.8N min.			
5.Durability	1	Contact resistance:70mø max.(IDC type) 85mø max.(Solder type) No damage, cracks or parts dislocation.					1000 cycles	
6.Vibration	No electrical discontinuity of 10µs or longer. No damage, cracks or parts dislocation.						Frequency:10 to 50Hz, single amplitude of 0.75mm, 5min/cycle, total 10 cycles.	
7.Shock							Acceleration of 490m/s², 11ms duration, sine half-wave waveform, 3 cycles in each of the 3 axis.	
8.Temperature cycle	1	Contact resistance:70mø max.(IDC type) 85mø max.(Solder type) No damage, cracks or parts dislocation.					Temperature: -55℃/+5℃ to +35℃/+85℃/5℃ to+35℃ Time:30/5/30/5(Minutes) 5cycles	
9.Humidity (Steady state)	Insulation resistance:100Mømin. No damage, cracks or parts dislocation.						96 hours at 40℃ And RH 90% to 95%.	
10. Salt spray test	Contact resistance:100mø max.						5% salt water solution for 48 hours.	

■Materials

Products	Components	Material	Finish	Remarks
Screw lock type receptacle connector	Insulator	Polyamide resin	Black	UL94V-0
	Contacts	Copper alloy	Selective gold plated	---
	Shell	Stainless steel	Tin plated	---
	Metal fitting	Stainless steel	Selective Tin plated	---
One Touch Lock Type Receptacle connector	Insulator	Polyamide resin	Black	UL94V-0
	Contacts	Copper alloy	selective gold plated	---
	Shell	Stainless steel	Tin plated	---
	Metal fitting	Brass	Tin plated	---
	Metal grounding post	Steel	Nickel plated	---
Plug connector	Insulator	Polyamide resin	Black	UL94V-0
	Contacts	Copper alloy	Selective gold plated	---
	Rear insert	PBT resin	Black,Natural	UL94V-0
	Shell	Stainless steel	Nickel plated	---
Screw lock type cover case	Cover	Polycarbonate resin	Black	UL94V-0
	Shield	Stainless steel	Nickel plated	---
	Screw lock	Steel	Nickel plated	---
	Tapping screw	Steel	Black chromate(Cr+3)	---
Lock type cover case	Cover	Polycarbonate resin	Black	UL94V-0
	Shield	Stainless steel	Nickel plated	---
	Screw lock	Steel	Nickel plated	---
	Screw insulator	Polyamide resin	Black	UL94V-0
	Tapping screw	Steel	Black chromate(Cr+3)	---
One Touch Lock Type metal button cover case	Cover	Polycarbonate resin	Black	UL94V-0
	Shield	Stainless steel	Nickel plated	---
	Lock spring	Stainless steel	---	---
	Tapping screw	Steel	Black chromate(Cr+3)	---
One Touch Lock Type plastic button cover case	Cover	Polycarbonate resin	Black	UL94V-0
	Shield	Stainless steel	Nickel plated	---
	Lock spring	Stainless steel	---	---
	Button	Polycarbonate resin	Black	UL94V-0
	Tapping screw	Steel	Black chromate(Cr+3)	---
Lock screw	Screw lock	Steel	Nickel plated	---
	Waher	Steel	Nickel plated	---
	Spring washer	Steel	Nickel plated	---
Metal clamp	Metal clamp	Brass	---	---