

PRODUCT SPECIFICATION

1. This specification covers performance, tests and quality requirements for 0.8mm VHDCI connectors. These connectors are cable mounted plug connectors and printed circuit board mounted plug and receptacle connectors.

2. Materials

- Cable connector backshell hardware:
 - Jackscrews: Steel, clear chromate over zinc plating
 - Spring latch: Stainless steel
- Contact:
 - Cable connector: Copper alloy, gold plating in contact area, tin-lead plating on solder area.
 - PC board connector: Copper alloy, gold plating in contact area, tin-lead plating on solder area.
- Housing:
 - PC board connector: PBT, black, UL94V-0
 - Cable connector: LCP, black, UL94V-0
- Shell:
 - Backshell: ZINC, nickel over copper plating
 - Cable connector front: Steel, nickel over copper plating
 - PCB connector: Steel, nickel over copper plating

3.1. Ratings

- ◆ Voltage: 30 volts AC
- ◆ Current: 0.5A single circuit;
- ◆ Temperature: -20 to 85°C

3.2. Performance and Test Description

Product is designed to meet electrical, mechanical and environmental performance requirements specified in Figure 1. Unless otherwise specified, all tests shall be performed at ambient environmental conditions per KINKUO Specification

3.3. Test Requirements and Procedures Summary

Test Description	Requirement	Procedure
Examination of product.	Meets requirements of product drawing and Application Specification 114-6057.	Visual, dimensional and functional per applicable quality inspection plan.
ELECTRICAL		
Termination resistance.	+ΔR 10 milliohms maximum.	Subject mated contacts assembled in housing to 50 mv maximum open circuit at 100 ma maximum.
Insulation resistance.	500 megohms minimum.	Test between adjacent contacts of mated but unmounted samples.
Dielectric withstanding voltage.	250 vac at sea level.	Test between adjacent contacts of mated but unmounted samples.
MECHANICAL		
Solderability.	Solderable area shall have minimum of 95% solder coverage.	Subject contacts to solderability.
Durability.		500 cycles
Mating force.		44N Maximum
Unmating force.		6.2N Minimum
Housing lock strength.	125 Newtons kilograms minimum.	Determine strength of housing locking mechanism at rate of 13mm per minute.
ENVIRONMENTAL		
Thermal shock.		Subject mated samples to 5 cycles between -55 and 85°C.
Humidity-temperature cycling.		Subject mated samples to 10 cycles between 25 and 65°C at 95% RH.