

CHARACTERISTICS OF PCL-G96 TYPE CONNECTORS

Male Connector ; PCL-G96RM () + Δ
 Female Connector ; PCL-G96RF () +

Male Power Contact ; PCL-A-M413, 413A
 Female Power Contact ; PCL-A-F413

DATE	NOV-18-1992
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APPROVED BY	CHECKED BY	CHECKED BY	PLANNED BY
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Sturisawa

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K. Homme

I. Ito

Item	Conditions and Specifications
1 Rated Voltage	AC250V (r. m. s.)
2 Rated Current	Power contact 7 A / Signal contact 1 A
3 Insulation Resistance	500 V D. C. shall be applied for 1min., after which measurement shall be made. 1000M Ω or more
4 Dielectric Withstanding Voltage	750 V A. C. shall be applied for 1min., after which measurement shall be made. Without damage to parts, breakdown
5 Contact Resistance	Using Milliohm Meter (MODEL NO. 432A of HP) Signal contact 2m Ω or less Power contact 15m Ω or less
6 Insertion and Withdrawal Force Δ	Individual Withdrawal force Signal contact 0.29 0.28 N or more Power contact 0.29 0.28 N or more Overall Insertion and Withdrawal force Insertion force 17.62 kgN or less Withdrawal force 27.4 28 kgN or more
7 Humidity	MIL-STD-202 F-103 B method B 90~95%RH, 40 \pm 2 $^{\circ}$ C 96hours. ① Insulation Resistance 100M Ω or more ② Dielectric Withstanding Voltage Without damage to parts, breakdown.
8 Thermal Shock	MIL-STD-202 F-107 method A -55~+85 $^{\circ}$ C 5 cycle Appearance Without coming off the plating deformation of the insulation or damage in appearance such as warp etc.

Data	Planned by	App by	note
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② 2004.3.31	T. S.		RoHS, change quotation standard.
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Male: PCL-G96RM()
 Female: " - G96RF()

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	Item	Conditions and Specifications
9	Vibration	MIL-STD-202 F-204 D method A Frequency: 10 to 500 Hz. Electrical load: 100 mA D. C. Acceleration peak: 10 G 3 hours x, y, z directions each. ① Contact chattering No discontinuity for more than 1 microsecond. ② Appearance Without coming off the plating deformation of the insulation or damage in appearance such as warp etc.
10	Shock	MIL-STD-202 F-202 D Electrical load: 100 mA D. C. Acceleration peak: 50 G 1 times x, y, z directions each. ① Contact chattering No discontinuity for more than 1 microsecond. ② Appearance Without coming off the plating deformation of the insulation or damage in appearance such as warp etc.
11	Durability	Connector shall be subjected to 500 times of insertion and withdrawal Contact resistance Signal contact 25mΩ or less Power contact 15mΩ or less
12	Corrosion (Salt Spray)	MIL-STD-202 F-101 D method B 5% solution, 48 hours. ① Contact resistance Signal contact 25mΩ or less Power contact 15mΩ or less ② Appearance Without corrosion of the contact.
13	Hydrogen Sulphide	JIS H8502 Δ H ₂ S 3 ppm, 40°C, 48 hours. ① Contact resistance Signal contact 25mΩ or less Power contact 15mΩ or less ② Appearance Without corrosion of the contact.