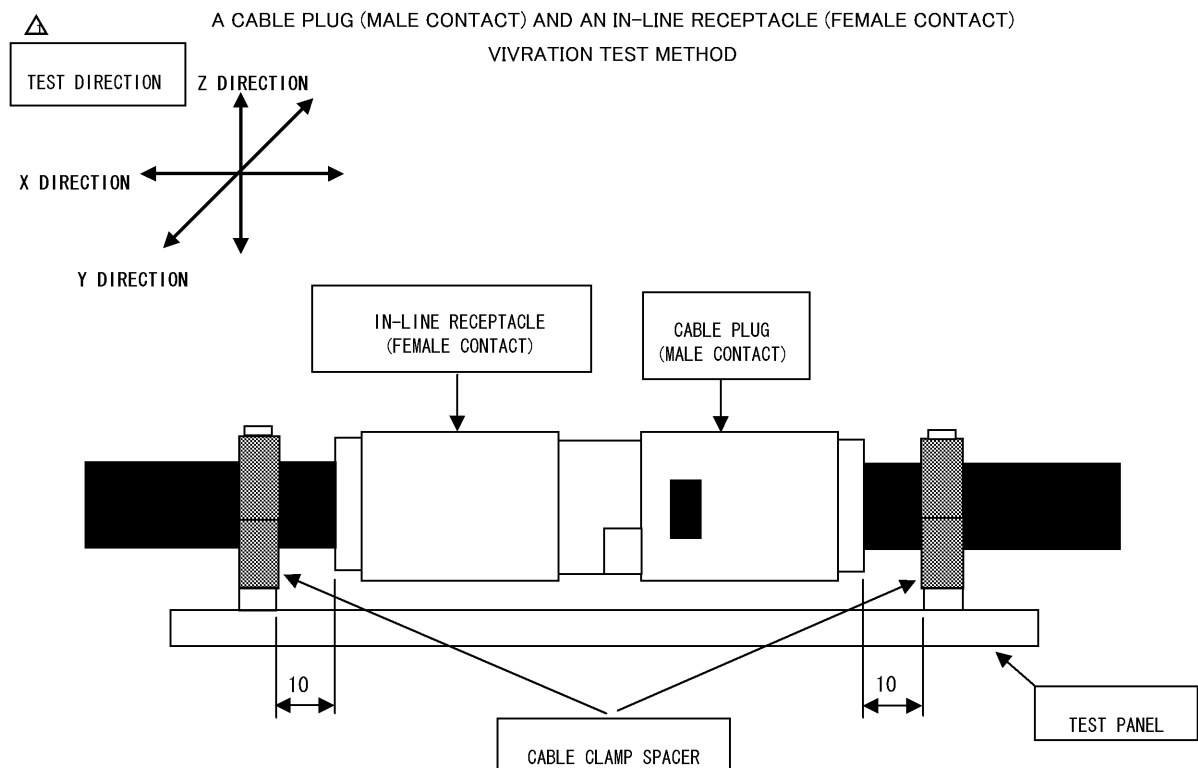
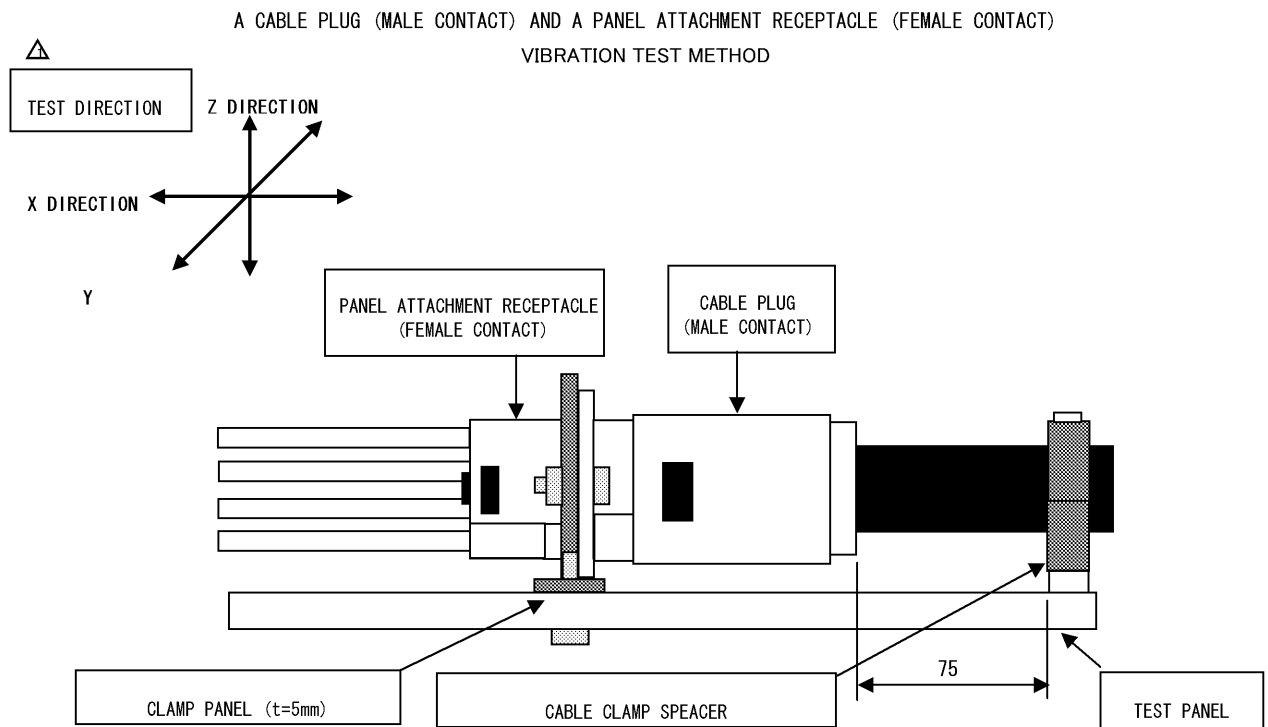


APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	1 -40°C TO +105°C	STORAGE TEMPERATURE RANGE	2 -55°C TO +85°C	
	VOLTAGE	AC 600 V , DC 600 V	—	—	
	CURRENT	AWG#20 (UL1015) 20pos. : 3 A	APPLICABLE CABLE	AWG#20 TO AWG#22 (UL-STYLE : UL1007 , UL1015)	
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	QT AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	X X
MARKING		CONFIRMED VISUALLY.			X X
ELECTRICAL CHARACTERISTICS					
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz) MAX.	3 10 mΩ MAX. (CONTACT SPACING)		X	-
		3 50 mΩ MAX. (SHELL SPACING)		X	-
INSULATION RESISTANCE	500 V DC.	5000 MΩ MIN.		X	-
VOLTAGE PROOF	2200 V AC. FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		X	-
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND WITHDRAWAL FORCES	APPRICABLE CONTACT.	INSERTION FORCE : 3 N MAX. WITHDRAWAL FORCE : 1 N MIN.		X	-
CONNECTOR INSERTION AND WITHDRAWAL FORCES	APPRICABLE CONNECTOR.	INSERTION FORCE : 98 N MAX. WITHDRAWAL FORCE : 14.7 N MIN.		X	-
CONTACT (LANCE) RETENTION FORCES	PULL A CONTACT BY 49 N (1 min.) FROM WIRING SIDE. Δ	① CONTACTS SHOULD BE RETAINED. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
CONDUCTOR PRESSURE BONDING FORCES	CRIMP THE CABLE ONLY AT THE CONDUCTOR, AND RETENTION FORCE SHALL EXCEED THE SPECIFICATION WHEN PULL FORCE IS APPLIED.	① AWG#20 : 73.5 N MIN. ② AWG#22 : 49 N MIN.		X	-
CABLE CLAMP STRENGTH	APPLY PULL FORCE OF 98 N IN MATING DIRECTION FOR A MINUTE.	① CONTACTS SHOULD BE RETAINED. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
MECHANICAL OPERATION	Δ 500 TIMES INSERTIONS AND WITHDRAWALS.	3 ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
VIBRATION	FREQUENCY : 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. (REFERENCE FOR APPENDED FIGURE)	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
SHOCK	IN OPPOSITE DIRECTIONS OF EACH 6 DIMENSION AXIS FOR 3 TIMES AT 490 m/s ² DURAUCTIONS OF PULSE 11 ms.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
Δ	9	DIS-E-004710	YH. MAMADA	AH. KODAMA	13.06.24
REMARK			APPROVED	R.I. TAKAYASU	12.12.04
ABOVE SPESIFICATION SHOWS THE VALUES IN ASSEMBLED CONDITION WITH APPLICABLE CRIMP CONTACTS.			CHECKED	AH. KODAMA	12.12.04
			DESIGNED	TY. MIURA	12.12.04
Unless otherwise specified, refer to JIS C 5402.			DRAWN	TY. MIURA	12.12.04
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-128184-00
HRS	SPECIFICATION SHEET		PART NO.	PQ50-2022PCA	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL236-2039-3-00	Δ 1/3

SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
ENVIRONMENTAL CHARACTERISTICS					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 15 TO 35 → 105 → 15 TO 35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min. UNDER 5 CYCLES.	③ ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
HEAT RESISTANCE	EXPOSED AT 105 °C ± 2 °C, 96 h, AND MATING THE APPLICABLE CONNECTORS. ⚠	③ ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 20 mΩ MAX. ② INSULATION RESISTANCE : 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
COLD RESISTANCE	EXPOSED AT -55 °C ± 3 °C, 96 h, AND MATING THE APPLICABLE CONNECTORS. ⚠	③ ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 20 mΩ MAX. ② INSULATION RESISTANCE : 1000 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
HUMIDITY	EXPOSED AT 60 °C ± 2 °C, 90 TO 95 %, 96 h, AND MATING THE APPLICABLE CONNECTORS. ⚠	③ ① CHANGE IN CONTACT RESISTANCE OF CONTACTS : 20 mΩ MAX. ② INSULATION RESISTANCE : 1000 MΩ MIN. (AFTER IT DRIER) ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	-	
MIXED FLOWING GUS	EXPOSED IN SO ₂ 10 ppm, H ₂ S 3 ppm, 70 TO 80 %, 24 h, AND MATING THE APPLICABLE CONNECTORS. ⚠	NO HEAVY CORROSIN RUIN THE FUNCTION.	X	-	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h, AND MATING THE APPLICABLE CONNECTORS. ⚠	NO HEAVY CORROSIN RUIN THE FUNCTION.	X	-	
① ① THE PRODUCT PERFORMANCE IS GUARANTEED ONLY IN THE TEMPERATURE ADEQUATE PEOPLE'S ACTIVITIES. ② INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. ③ SPECIFICATIONS FOR ASSEMBLED ITEM WITH APPLICABLE HOUSING. ② PACKING MATERIALS ARE NOT INCLUDED. ③ CABLE CONDUCTOR RESISTANCE IS NOT INCLUDED.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-128184-00		
HRS	SPECIFICATION SHEET	PART NO.	PQ50-2022PCA		
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236-2039-3-00	⚠	2/3

APPENDED FIGURE



Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO.

ELC4-128184-00

HRS

SPECIFICATION SHEET

PART NO.

PQ50-2022PCA

HIROSE ELECTRIC CO., LTD.

CODE NO

CL236-2039-3-00



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