


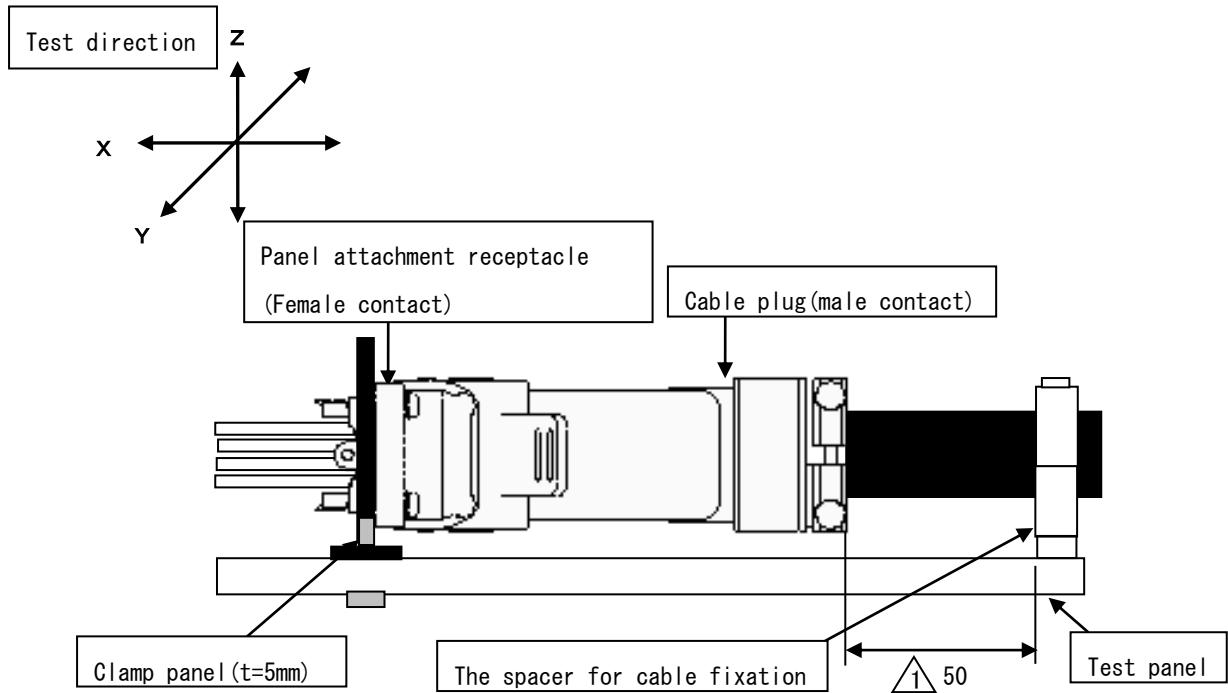
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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		IP65			
RATING	Operating temperature range	-40°C to +105°C (Note1)	Storage temperature range	-55°C to +85°C (Note2)	
	Voltage	AC 300 V , DC 300 V	—	—	
	Current	12.5A / 1Pin AWG#18 (UL1007)時 3A / 50Pin AWG#18 (UL1007)時	Applicable cable	AWG#18 to AWG#22 (UL-STYLE : UL1007)	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
<b>CONSTRUCTION</b>					
General Examination	Visually and by measuring instrument.		According to drawing.	X	X
Marking	Confirmed visually.			X	X
<b>ELECTRICAL CHARACTERISTICS</b>					
Contact Resistance	100 mA (DC OR 1000 Hz) MAX.	5 mΩ MAX. (Signal and power contact)		X	-
		50 mΩ MAX. (Ground contact)		X	-
Insulation Resistance	500 V DC.	5000 MΩ MIN.		X	-
Voltage Proof	2200 V AC. for 1 min.	No flashover or breakdown.		X	-
<b>MECHANICAL CHARACTERISTICS</b>					
Contact Insertion and Withdrawal Forces	Applicable contact.		Insertion force : 3 N MAX. Withdrawal force : 1 N MIN.	X	-
CONNECTOR INSERTION AND WITHDRAWAL FORCES 	Applicable connector. (Without the lock lever)		Insertion force : 98 N MAX. Withdrawal force : 14.7 N MIN.	X	-
Contact (Lance) Retention Forces 	Apply axial pull out force at the speed rate of 25mm/min to the contact and measure the force when the contact is pulled out.		29.4N MIN 	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#18 : 89 N MIN. ② AWG#20 : 57.9 N MIN. ③ AWG#22 : 35.6 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	500 times insertions and extractions.		① Change in contact resistance of Contacts : 10 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 axial 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 3 both axis for 3 times at 490 m/s <sup>2</sup> duration 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
	5	DIS-E-00003614	TY. MIURA	TU. TANIGUCHI	20201201
REMARK			APPROVED	RI. TAKAYASU	20130205
Above spesification shows the values in assembled condition with "PQ50W" series.			CHECKED	NM. NISHIMATSU	20130205
In case of using for other series of connector , the specification is based on each series.			DESIGNED	TS. SAKAIZAWA	20130205
Unless otherwise specified , refer to IEC 60512(JIS C 5402) 			DRAWN	TS. SAKAIZAWA	20130205
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-127527-00	
	SPECIFICATION SHEET		PART NO.	PQW-CM (17.5)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	GL0236-2019-6-00	

SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
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.	① Change in contact resistance of contacts : 10 mΩ MAX. ② No damage. Crack and looseness of parts.	X	-	
Heat Resistance	Exposed at 105 °C ± 2 °C, 96 h, and combine the applicable connectors.	① Change in contact resistance of contacts : 10 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 combine the applicable connectors.	① Change in contact resistance of contacts : 10 mΩ MAX. ② Insulation resistance : 1000 MΩ MIN. ③ No damage. Crack and looseness of parts.	X	-	
Humidity	Exposed at 60 °C ± 2 °C, 93±3 %, 96 h, and combine the applicable connectors.	① Change in contact resistance of contacts : 10 mΩ MAX. ② Insulation resistance : 1000 MΩ MIN. (After it drier) ③ No damage. Crack and looseness of parts.	X	-	
Mixed Flowing Gas	Exposed in SO <sub>2</sub> 10 ppm, H <sub>2</sub> S 3 ppm, 70 to 80 %, 24 h, and combine the Applicable connectors.	No heavy corrosion ruin the function. Change in contact resistance of contacts : 10 mΩ MAX. (contacts, shell)	X	-	
Corrosion Salt Mist	Exposed in 5 % salt water spray for 48 h, and combine the applicable connectors.	No heavy corrosion ruin the function. Change in contact resistance of contacts : 10 mΩ MAX. (contacts, shell)	X	-	
(Note1) 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.  (Note2) Packing materials are not included.					
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<b>HRS</b>	SPECIFICATION SHEET		PART NO.	PQW-CM (17. 5)	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL0236-2019-6-00	△ 2/3

# APPENDED FIGURE

A cable plug (Male contact) and a panel attachment receptacle (Female contact)  
Vibration Test Method



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

DRAWING NO.

ELC4-127527-00

**HRS**

SPECIFICATION SHEET

PART NO.

PQW-CM (17.5)

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CODE NO

CL0236-2019-6-00

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