Applicable S	Standard										
, ipplicable i	Operating				Stor	age					
	Operating Temperature B		Note. 1 −55°C to +105°	С		U	e Range		Note. 2 -55° C to $+85^{\circ}$ C		
	Voltage		AC 600 V, DC 600 V			—			_		
Rating	Current		19.0 A/pin (AWG#14) Conduct specified curr a single pin of contac	ent to	nt to Applica		icable Cable		AWG#14 TO AWG#22 (UL-STYLE:UL1007,1015)		
			SPF(CIFICA	TIONS	<u> </u>					
IT	EM		TEST METHOD	311 10/1	11011			DEOLI	IREMENTS	QT	AT
CONSTRU			TEST METHOD				Г	\EQU	IKEWENTS	QI	AI
General Exami		Visually a	and by measuring instrument.							Х	Х
Marking					According to drawing.			X	X		
	AL OLIADAO										
ELECTRIC/	AL CHARAC	TERISTI	58			Notes	0		/	Х	Τ -
Contact Resis	tance	100 mA (DC or 1000 Hz) max.			Note 3 5 m Ω max. (contact spacing) Note 3 50 m Ω max. (shell spacing)				X	-	
Insulation Re	sistance	500 V DC.				Note. 3 50 m Ω max. (shell spacing) 5000 M Ω min.			Х	-	
Voltage Proof			for 1 min.				ashover o	ng h	aledawa	X	-
voitage Proof		3310 V AU.	TOT I MIN.			NO TI	asnover	or brea	akdown.		
		Current	specified current to a s carried:19.0A/pin (AWG#		l.	Max. 30	0°C incre	ease f	rom ambient temperature.	X	-
MECHANIC	CAL CHARA	CTERIST	ICS			ı					
Contact Insertion and Withdrawal Forces		Measure with the contact pair.			Insertion force : 3.0 N max. Withdrawal force : 1.0 N min.			X	-		
Connector Insertion and Withdrawal Forces		Measure with the lock lever released (all contacts are assembled)			Insertion force : 150 N max. Withdrawal force : 50 N min.			х	-		
Contact(Lance) Retention Forces		Apply axial pull out force at the speed rate of 25mm/min to the terminal, and measure the force when the terminal is pull out.			68.6 N min.			X	-		
COUN	T DE	SCRIPTION	ON OF REVISIONS		DESIG	NED			CHECKED	D.A	ATE
<u> </u>											
REMARK				1			APPRO	VED	MN. KENJO	2010	90408
Above spesification shows the values in assembled condition with "PQ50WA(2 unit integrate			d type)"	CHEC		TU. TANI GUCHI	-	90407			
series.In case of using for other series of connecto			nector,the specification is based on each series.			DESIGNED DRAWN			TY. MIURA	2019040	
Unless otherwise specified, refer to 1			to IEC 60512.						TY. MIURA	2019040	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DF	DRAWING NO.		-	ELC-129680-00-00				
HS.	SI	PECIFICATION SHEET				ART NO.			PQ50WA-25P-UNIT		
11/2		HIROSE ELECTRIC CO., LTD.			CODE NO.		CL236-2121-0-00		5-2121-0-00	\triangle	1/3
ПІК		COL LLLOTRIO CO., LID.		CODE NO.		ULZ3U-Z1Z1-U-UU			~~	L	

	SPECIFICATION			
ITEM	TEST METHOD	REQUIREMENTS	Ğ	ΑT
MECHANICAL CHARAC	CTERISTICS			
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#14 ② AWG#16 ③ AWG#18 ④ AWG#20 ⑤ AWG#22		Х	-
Lock Strength	Apply 98 N pull force for 1 minutes to the plug in mating axial direction with locked condition.	No damage, crack and looseness of parts.	Х	ı
Lever Operation Force	Measure the lever operation force for lock/unlock.	Lock : 205.8 N max. Unlock : 205.8 N max.	Х	-
Cable Clamp Strength	Apply pull force of 98N in mating direction for a minute.	Contacts should be retained. No damage, crack and looseness of parts.	Х	-
Mechanical Operation	100 times insertions and extractions.	Note. 3 ① Change in contact resistance of contacts : $20~\text{m}\Omega$ max. ② No damage, crack and looseness of parts.	Х	ı
Vibration	Frequency: 10 to 55 Hz, single amplitude 0.75 mm, at 2 h, for 3 directions. (reference for appended figure 2)	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 durations of pulse 11 ms.	① No electrical discontinuity of 10 μs. ② No damage, crack and looseness of parts.	Х	-
ENVIRONMENTAL CHA				
Rapid Change of Temperature	Temperature -55 \rightarrow 15 to 35 \rightarrow 105 \rightarrow 15 to 35 °C Time 30 \rightarrow 2 to 3 \rightarrow 30 \rightarrow 2 to 3 min. Under 5 cycles.	Note.3 ① Change in contact resistance of contacts : 20 mΩ max. ② No damage, crack and looseness of parts.	Χ	-
Heat Resistance	Exposed at 105 °C \pm 2 °C, 96 h, and combine the applicable connectors.	Note.3 ① Change in contact resistance of	Х	-
Cold Resistance	Exposed at -55 °C \pm 3 °C, 96 h, and combine the applicable connectors.	Note.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 \pm 2 °C, 90 to 95 %, 96 h, and combine the applicable connectors.	Note.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.	Х	-
Mixed Flowing Gas	Exposed in $\mathrm{SO_2}$ 10 ppm, $\mathrm{H_2S}$ 3 ppm, 70 to 80 %, 24 h, and combine the applicable connectors.	No heavy corrosion ruin the function.	χ	-
Dust/Splash Protection	Follow IEC60529 tests and combine the applicable connectors.	IP65(IEC60529) min protected to avoid dust intrusion. No harmful effect from direct water splash from any directions.	Х	-

REMARK

- Note 1 ① The product performance is guaranteed only in the temperature adequate people's activities.
 - ② Include temperature rise caused by current-carrying.
 - $\ensuremath{\mathfrak{G}}$ Specifications for assembled item with applicable housing.
- Note. 2 Packing materials are not included.
- Note.3 Cable conductor resistance is not included.

Note QT:Qu	alification Test AT:Assurance Test X:Applicable Test	DRAWING	G NO.	ELC-129680-00-00		
HRS	SPECIFICATION SHEET	PART NO.	PQ50WA-25P-UNIT			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL236	5-2121-0-00		2/3

APPENDED FIGURE Appended figure 1. lever operation force Unlock Lock KS Appended figure 2. vibration test method diagram(side view). Test direction Z direction X direction Y direction Plug Receptacle 75 Test panel Clamp panel (t=3.2mm) Spacer for cable fixing ELC-129680-00-00 QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. PQ50WA-25P-UNIT PART NO. SPECIFICATION SHEET CL236-2121-0-00 \triangle 3/3 HIROSE ELECTRIC CO., LTD. CODE NO