	LE STANDA		IP65	Stor	r.0.70			
RATING	Operating temperature range		-40°C to +105°C (Note1)	Stor temp	rage perature range	-55°C to +85°C (N	lote2)	
	Voltage		AC 300 V , DC 300 V		_	—		
	Current		12.5A / 1Pin AWG#18(UL1007)時 3A / 50Pin AWG#18(UL1007)時		licable cable (UL-STYLE : UL			
			SPECIFICAT	ION	S			
ΓI	ΓEM		TEST METHOD		REQ	UIREMENTS	QT	AT
CONSTRU	CTION				•			
General Exami	nation	Visually	and by measuring instrument.				Х	Х
		Confirmed	firmed visually.		According to drawing.		Х	Х
ELECTRIC	AL CHARAC	TERISTI	CS					
	h			5 mΩ MAX. (Signal a	5 m Ω MAX. (Signal and power contact)			
Contact Resistance		100 mA (DC OR 1000 Hz) MAX.		50 m Ω MAX. (Ground contact)			-	
Insulation Resistance 500 V DC.				5000 MΩ MIN.	5000 MΩ MIN.		-	
Voltage Proof	-	2200 V AC	. for 1 min.		No flashover or brea	akdown.	Х	-
MECHANIC	CAL CHARAC	CTERIST	ICS					
Contact Inser	tion and	Applicable contact.		Insertion force : 3 N MAX.		х	-	
Withdrawal Forces				Withdrawal force : 1 N MIN.				
CONNECTOR INSERTION AND		Applicable connector. (Without the lock lever)			Insertion force : 98 N MAX. Withdrawal force : 14.7 N MIN.			-
Contact (Lanc Retention For		25mm/min	ial pull out force at the speed ra to the contact and mesure the force wh s pulled out.				x	-
Conductor Pressure Bonding Forces			cable only at the conductor, and ret Il exceed the specification when pull d.				-	
Cable Clamp Strength			I force of 98 N in mating direction	① Contacts should be retained. ② No damage. Crack and looseness of parts.			-	
Mechanical Op	peration	500 times	insertions and extractions.		 Change in contact 10 mΩ MAX. 	and looseness of parts.	x	-
Vibration At 2 h, f		At 2 h, f	/ : 10 to 55 Hz, singe amplitude 0.75 mm, for 3 axial directions. ce for appended figure)		 No electrical discontinuity of 10 μs. No damage. Crack and looseness of parts. 			-
Shock			te directions of each 3 both axis for t 490 m/s ² duration of pulse 11 ms.		-	scontinuity of 10 μs. and looseness of parts.	х	-

COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED		D	DATE	
5	DIS-E-00003614		TY. MIURA	TU. TANIGUCHI			202	20201201	
REMARK				APPROVED		RI. TAKAYASU	201	20181210	
Above spesification shows the values in assembled condition with "PQ50W" series.				CHECKED		TU. TANIGUCHI	201	81210	
In case of using for other series of connector , the specification is based on each series. Unless otherwise specified , refer to IEC 60512(JIS C 5402)			each series.	DESIGNED		SH. KOYAMA	20181210		
				DRA	WN	SH. KOYAMA	201	81210	
e QT:Qu	alification Test AT:Assurance Test X:Applicable T	est	DRAWIN	IG NO.		ELC-129890-00-0			
RΖ			PART NO.			PQ50W-50-FLA			
			CODE NO.	CL	L0236-2132-0-00		◬	1/3	
	5 MARK ve spesific ase of usin ess otherw	5 DIS-E-00003614 MARK ve spesification shows the values in assembled condition with "P ase of using for other series of connector , the specification is bases otherwise specified , refer to IEC 60512(JIS C 5402) e QT:Qualification Test AT:Assurance Test X:Applicable Test SPECIFICATION SHEET	5 DIS-E-00003614 MARK ve spesification shows the values in assembled condition with "PQ50W" ase of using for other series of connector , the specification is based on ess otherwise specified , refer to IEC 60512(JIS C 5402) e QT:Qualification Test AT:Assurance Test X:Applicable Test SPECIFICATION SHEET	5 DIS-E-00003614 TY. MIURA MARK ve spesification shows the values in assembled condition with "PQ50W" series. ase of using for other series of connector , the specification is based on each series. exercise specified , refer to IEC 60512(JIS C 5402) e QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWIN SPECIFICATION SHEET PART NO.	5 DIS-E-00003614 TY. MIURA MARK APPRO ve spesification shows the values in assembled condition with "PQ50W" series. CHEC ase of using for other series of connector , the specification is based on each series. DESIG ass otherwise specified , refer to IEC 60512(JIS C 5402) 2 DRAWING NO. e QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. SPECIFICATION SHEET PART NO. PART NO. DESIG	5 DIS-E-00003614 TY. MIURA MARK MARK ve spesification shows the values in assembled condition with "PQ50W" series. APPROVED ase of using for other series of connector , the specification is based on each series. DESIGNED ass otherwise specified , refer to IEC 60512(JIS C 5402) 2 DRAWN e QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. SPECIFICATION SHEET PART NO.	5 DIS-E-00003614 TY. MIURA TU. TANIGUCHI MARK APPROVED RI. TAKAYASU ve spesification shows the values in assembled condition with "PQ50W" series. APPROVED RI. TAKAYASU ase of using for other series of connector , the specification is based on each series. CHECKED TU. TANIGUCHI bess otherwise specified , refer to IEC 60512(JIS C 5402) 2 DRAWN SH. KOYAMA be QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC-129890- RS SPECIFICATION SHEET PART NO. PQ50W-50-FLA	5 DIS-E-00003614 TY. MIURA TU. TANIGUCHI 202 MARK we spesification shows the values in assembled condition with "PQ50W" series. APPROVED RI. TAKAYASU 201 ase of using for other series of connector , the specification is based on each series. APPROVED SH. KOYAMA 201 biss otherwise specified , refer to IEC 60512(JIS C 5402) 2 DRAWN SH. KOYAMA 201 biss otherwise specified in Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC-129890-00-00 CHECKED SPECIFICATION SHEET PART NO. PQ50W-50-FLA	

FORM HD0011-2-1

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL	CHARACTERISTICS	1		
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.	 Change in contact resistance of contacts 10 mΩ MAX. No damage. Crack and looseness of parts. 	x	-
Heat Resistance	Exposed at 105 °C \pm 2 °C, 96 h, and combine the applicable connectors.	 Change in contact resistance of contacts 10 mΩ MAX. Insulation resistance : 1000 MΩ MIN. No damage. Crack and looseness of parts. 	x	-
Cold Resistance	Exposed at -55 °C \pm 3 °C, 96 h, and combine the applicable connectors.	 Change in contact resistance of contacts 10 mΩ MAX. Insulation resistance : 1000 MΩ MIN. No damage. Crack and looseness of parts. 	x	-
Humidity	Exposed at 60 °C \pm 2 °C, 93 \pm 3 %, 96 h, and combine the applicable connectors.	 Change in contact resistance of contacts 10 mΩ MAX. Insulation resistance : 1000 MΩ MIN.	x	-
Mixed Flowing Gus	Exposed in SO2 10 ppm, H2S 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)			
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	-
② Include temp	performance is guaranteed only in the temperature adequate p erature rise caused by current-carrying. ns for assembled item with applicable housing. Is are not included.	eople's activities.		

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129890-00-00		
HRS	SPECIFICATION SHEET	PART NO.	PQ50W-50-FLA			
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL023	6-2132-0-00		2/3

