APPLICA	BLE S	STANI	DARD	IEC 61076-3-124									
Operating Tem Range			erature	-40°C TO +85°C(95%RH	max)	Storage Range	Storage Temperature Range		-30°	C TO +60°C(95%RH ma	x)		
Detine				(note1)					(note1) 2				
Rating		\					· · · · · · · · ·		1.5 A/pin (all pin)				
Voltaç			ge 50 V AC / 60 V DC				Current			3 A/pin (pin No.1,2,6,7)			
				SPEC	IFICA	TION	IS						
IT	ЕМ			TEST METHOD				RE	QUI	REMENTS	QT	АТ	
CONSTR	RUCT	ION											
General Examination			Examined visually and with a measuring instrument.				According to drawing.				Х	Х	
Marking			Confirmed visually.				According to drawing.				Х	Χ	
ELECTR	IC CH	IARA	CTERIS	STICS									
Contact Resistance			Measured at 100 mA max (DC or 1000 Hz).				Contact : $30 \text{ m}\Omega$ max. Shield : $100 \text{ m}\Omega$ max.				Х	_	
Insulation Resistance			Measured at 500 V DC.				500 MΩ min.				Х	_	
Voltage Proof			500 V DC applied for 1 min. Current leakage 2mA max.				No flashover or breakdown.				X	_	
Insertion Loss			Measured in the range of 1 to 500 MHz.				0.02 $$ (f) dB max. (Whenever the formula results in a value less than 0.1 dB, the requirement shall revert to 0.1 dB.)				X	_	
Return Loss			Measured in the range of 1 to 500 MHz.				68 – 20log(f) dB min. (Whenever the formula results in a value greater than 30 dB, the requirement shall revert to 30 dB.)				n X	_	
Near end Crosstalk			Measured in the range of 1 to 500 MHz.			94 4€ (V	94 – 20log(f) dB min. (1MHz to 250MHz) 46.04 – 30log(f/250) dB min. (250MHz to 500MHz) (Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)			X	_		
Far end Crosstalk			Measured in the range of 1 to 500 MHz.			83 (V	83.1 – 20log(f) dB min. (Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)				n X	_	
Transverse Conversion Loss			Measured in the range of 1 to 500 MHz.			(V	68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				n X	_	
Transverse Conversion Transfer Loss			Measured in the range of 1 to 500 MHz.			(V	68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				n X	_	
MECHAN	ICAL (CHAR	ACTERI	ISTICS		•							
Forces			A maximum rate of 50 mm/min.				Insertion force 25 N max. Withdrawal force 25 N max.				Х	_	
Mechanical Operation			5000 times Mating spe	Neasured by applicable connector. O00 times insertions and extractions. Itating speed: 10 mm/s max. Itest: 5s, min.(unmated)			1) Resistance: Contact : $80~m\Omega$ max. Shield : $100~m\Omega$ max. 2) No damage, cracks or looseness of parts.			X	_		
Vibration			Frequency 10 to 500 Hz 0.35 mm, 50 m/s ² 2hrs in each of 3 mutually perpendicular axis.			'	 No electrical discontinuity of 1μs. No damage, cracks or looseness of parts. 				Х	_	
COUN	JT	DESC		ON OF REVISIONS		DESIGN	GNED CHECKED		CHECKED	DA	TE		
<u>A</u> 3	•	DLOC		E-00001391		JY.IG				KI.NAGANUMA		3.09	
Note			DIOL	. 00001331		01.10		PROV		RI.TAKAYASU	+	3.24	
Note 1. No	on-cor	ndensi	na. /2	2\			-	HECKI		KI.NAGANUMA		3.24	
Unless otherwise specified, re				efer to IEC 60512.			DESIGN		ED	HT.SATO	17.0	3.24	
Note OT:Qualification Test AT:Assurance Test V:Assis-bla Tes				ect	DD /	DRAWN		I N			3.24		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test SPECIFICATION SHEET				ESI				ELC-129419-0 30G-A-10S-CV (7.					
H 25								ΛI			۸ ا	1/2	
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	SPECIFICATIO	NS		
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
Fretting Corrosion	490 m/s ² , 30 times/min at 1000 times.	1) No electrical discontinuity of 1µs.		
		2) No damage, cracks or looseness of parts.	Х	_
Shock	Subject mated specimens to 300 m/s² half-sine shock pulses	1) No electrical discontinuity of 1µs.	Х	
	of 11 milliseconds duration, 3 shocks in both directions of 3 mutually perpendicular directions (totally 18 shocks)	2) No damage, cracks or looseness of parts.		_
Lock Strength	Applying 80 N force for the mating axis direction in state in fitted with applicable connector.	No unlocking, damage, cracks or looseness of parts.	Х	_
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on tip of plug case in state in fitted with applicable connector.	No damage, cracks or looseness of parts.	Х	_
ENVIRONMENTAL	CHARACTERISTICS			
	Subject mated specimens to 10 cycles between -55°C and 85°C with 30 minutes dwell at temp. Extremes and 1 minute transition between temperatures.	 Voltage proof: 500 V DC applied for 1 min. Current leakage 2mA max. No flashover or breakdown. Resistance: Contact: 80 mΩ max. 	х	_
		Shield : $100 \text{ m}\Omega$ max. 3) Insulation resistance: $500 \text{ M}\Omega$ min. (at dry) 4) No damage, cracks or looseness of parts.		
Humidity / Temperature Cycling	Low temperature 25 °C; High temperature 65 °C; Cold sub-cycle — 10 °C; Relative humidity 93 % Duration 10 / each 24 h (IEC 60068-2-38,test Z / AD)	 Resistance: Contact: 80 mΩ max. Shield: 100 mΩ max. Insulation resistance: 500 MΩ min. (at dry) No damage, cracks or looseness of parts. 	X	_
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93 % at a temperature of 40°C during 21 days.	 Resistance: Contact: 80 mΩ max. Shield: 100 mΩ max. Insulation resistance: 500 MΩ min. (at dry) No damage, cracks or looseness of parts. 	Х	_
Dry Heat	Subject to +85 ± 2 °C, 21 days. (mating applicable connector)	 Resistance: Contact: 80 mΩ max. Shield: 100 mΩ max. Insulation resistance: 500 MΩ min. (at dry) No damage, cracks or looseness of parts. 	X	_
Cold	Subject to -55 ± 3 °C, 10 days. (mating applicable connector)	 Resistance: Contact: 80 mΩ max. Shield : 100 mΩ max. Insulation resistance: 500 MΩ min. (at dry) No damage, cracks or looseness of parts. 	Х	_
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h. (left under unmated condition.)	No heavy corrosion of contacts.	Х	_
Mixed Flowing Gas Corrosion	Test temperature : $+25\pm1$ °C, Relative humidity : 75 ± 3 % H_2S : 100 ± 20 ppb, NO_2 : 200 ± 50 ppb CI_2 : 10 ± 5 ppb, SO_2 : 200 ± 20 ppb Duration : 4 days, half mated half unmated (IEC 60512, method 4)	 Resistance: Contact : 80 mΩ max. Shield : 100 mΩ max. No damage, cracks or looseness of parts. 	Х	_

Note Q1	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129419-00-00		
HQ.	SPECIFICATION SHEET	PART NO.	IX30G-A-10S-CV (7. 0)			
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL251	-0020-0-00	À	2/2