APPLICA	BLE 21 AIN	DAKD	IEC 61076-3-124								
Operating Tem Range		perature	-40°C TO +85°C(95%RH r		Storage Te	mperature	-30	°C TO +60°C(95%RH ma	ıx)		
	Range		(note1)		varige	•		(note1) 2			
Rating			(note1) / <u>2</u> \				(HOLE	1.5 A/pin (all pin)			
Volta		ge 50 V AC / 60 V DC			Cui	Current		3 A/pin (pin No.1,2,6,7)			
			CDEC			`		3 A/Piii (piii 140.1,2,	0,1)		
		T	SPECI	FICAI	IONS				1 _		
	EM		TEST METHOD			R	EQU	IREMENTS	QT	AT	
CONSTR		<u></u>				T				Τ.,	
General Exam Marking	ination	Examined visually and with a measuring instrument. Confirmed visually.				According to drawing. According to drawing.				X	
	IC CHARA	l .	•		Acci	ording to dra	wii ig.		X	^	
Contact Resist			at 100 mA max (DC or 1000 Hz)		Co	ntact : 30 mg) max		Х	$\overline{1}$	
Contact Nesisi	ance	measured at 100 HA Hax (DO 01 1000 112).				Shield: $100 \text{ m}\Omega$ max.					
Insulation Res	istance	Measured at 500 V DC.			500	500 MΩ min.				_	
Voltage Proof		500 V DC applied for 1 min. Current leakage 2mA max.			No f	flashover or l	oreakdo	own.	X	_	
Insertion Loss		Measured in the range of 1 to 500 MHz.			0.02	0.02 $\sqrt{(f)}$ dB max.					
					,	(Whenever the formula results in a value less than 0.1 dB, the requirement shall revert to 0.1 dB.)				-	
Return Loss		Measured in the range of 1 to 500 MHz. 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.) 94 – 20log(f) dB min. (1MHz to 250MHz) 46.04 – 30log(f/250) dB min. (250MHz to 500MHz)				_	
N	_4_U.									-	
Near end Cros	Staik										
							•	results in a value greater tha	n X		
					75 d	75 dB, the requirement shall revert to 75 dB.)				_	
Far end Cross	talk	Measured in the range of 1 to 500 MHz.				1 – 20log(f) d		recults in a value greater the			
								results in a value greater tha shall revert to 75 dB.)	n X	_	
Transverse Co	nversion Loss	Measured in the range of 1 to 500 MHz.			68 -	68 – 20log(f) dB min.					
					,			results in a value greater tha shall revert to 50 dB.)	n X	-	
Transverse Co	nversion	Measured	in the range of 1 to 500 MHz.			- 20log(f) dB		Shall revert to 50 db.)		+	
Transfer Loss						(Whenever the formula results in a value greater than				_	
		A OTED	107100		50 d	dB, the requir	ement	shall revert to 50 dB.)	n X		
	ICAL CHAR				Inco	ertion force	25.1	N max.	Х		
Insertion And \ Forces	/vitndrawai	A maximum rate of 50 mm/min.				Withdrawal force 25 N max.				_	
Machaniaal Or	a a ration	Measured by applicable connector.			1) P	1) Resistance:				+	
Mechanical Operation		5000 times insertions and extractions. Mating speed : 10 mm/s max. Rest : 5s, min.(unmated)			1 '	Contact: 80 mΩ max. Shield: 100 mΩ max. 2) No damage, cracks or looseness of parts. 1) No electrical discontinuity of 1μs.					
					Shi						
										-	
Vibration		Frequency 10 to 500 Hz 0.35 mm, 50 m/s ²			1			nuity of 1μs. or looseness of parts.			
			ch of 3 mutually perpendicular ax	is.		io damago, c		r recounted or parter	X		
COUN	IT DES	CRIPTIC	ON OF REVISIONS	DE	SIGNE	D		CHECKED	D/	ATE	
<u>/</u> 2\ 3		DIS-E	E-00001391	,	JY.IGA			KI.NAGANUMA	18.0	18.03.09	
Note			^			APPRO'	VED	RI.TAKAYASU	17.0	03.24	
Note 1. No	on-condens	ing. ∠	<u>2</u>			CHECK	ED	KI.NAGANUMA	17.0	03.24	
Unless oth	nerwise spe	cified, refer to IEC 60512.				DESIGNED		HT.SATO	17.0	03.24	
						DRAWN		HT.SATO	17.0	03.24	
Note QT:Q	ualification Te	st AT:As	surance Test X:Applicable Te	est	DRAV	VING NO.		ELC-129485-0	0-00	0	
H2C		SPECIFICATION SHEET PAI			ART NC	T NO.		IX31G-A-10S-CV (7. 0)			
	HIROSE E		ELECTRIC CO., LTD.		ODE NO	o. 0	CL251-0023-0-00			1/2	

	SPECIFICATIO	NS		
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ
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 of 11 milliseconds duration, 3 shocks in both directions of 3 mutually perpendicular directions (totally 18 shocks)	 No electrical discontinuity of 1µs. 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			
Rapid Change of Temperature	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.	1) Voltage proof: 500 V DC applied for 1 min. Current leakage 2mA max. No flashover or breakdown. 2) Resistance:	Х	_
		Contact : $80 \text{ m}\Omega$ max. 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)	1) Resistance: Contact: 80 mΩ max. Shield : 100 mΩ max. 2) Insulation resistance: 500 MΩ min. (at dry) 3) 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)	1) Resistance: Contact: 80 mΩ max. Shield: 100 mΩ max. 2)Insulation resistance: 500 MΩ min. (at dry) 3) No damage, cracks or looseness of parts.	Х	_
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 Cl_2 : 10 ± 5 ppb, SO_2 : 200 ± 20 ppb Duration : 4 days, half mated half unmated (IEC 60512, method 4)	1) Resistance: Contact : $80 \text{ m}\Omega$ max. Shield : $100 \text{ m}\Omega$ max. 2) No damage, cracks or looseness of parts.	Х	_

Note QT:C	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129485-00-00		
HS	SPECIFICATION SHEET	PART NO.	IX31G-A-10S-CV (7. 0)			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL251	-0023-0-00	<u>^</u>	2/2