APP	LICAI	BLE STAN	DARD	IEC 61076-3-124									
		Operating Temperature Range		-40°C TO +85°C(95%RH max) Storag (note1) Storag (note1)		e Temperature		-30°C TO +60°C(95%RH max) (note1)					
Rat	Rating Volta		ge				Current		1.5 A/pin (all pin) 3 A/pin (pin No.1,2,6,			7)	
				 SPECIFICATIOI							,,,,		
	IT	EM		TEST METHOD		11101		RF		REMENTS	QT	АТ	
CON		UCTION		TEOT WETTIOD				IXL	-001	INDIVIO	QΙ	/ \	
	al Exami		Examined	visually and with a measuring in	nstrument.		Accord	ing to drav	vina.		Х	Х	
Marking				Confirmed visually.			According to drawing.				Х	X	
		C CHARA	<u> </u>	<u> </u>					9.				
ELECTRIC CHARA Contact Resistance			Measured at 100 mA max (DC or 1000 Hz).			Contact : 30 m Ω max. Shield : 100 m Ω 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.			Х	_			
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.)			Х	_			
Return Loss N			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.)			Х	_			
Near end Crosstalk			Measured in the range of 1 to 500 MHz.				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.)			х	_		
Far end Crosstalk N			Measured in the range of 1 to 500 MHz.			83.1 – 20log(f) dB min. (Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)			Х	_			
Transverse Conversion Loss Mea			Measured	easured in the range of 1 to 500 MHz.			68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)			Х	_		
Transverse Conversion M Transfer Loss			Measured	Measured in the range of 1 to 500 MHz.			68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)			Х	_		
MEC	HANI	CAL CHAR	ACTER	ISTICS									
Insertion And Withdrawal Forces			A maximum rate of 50 mm/min. Measured by applicable connector.			Insertion force 25 N max. Withdrawal force 25 N max.			Х	_			
Mechanical Operation			Mating spe	nes insertions and extractions. speed : 10 mm/s max. s, min.(unmated)			1) Resistance: Contact : $80 \text{ m}\Omega$ max. Shield : $100 \text{ m}\Omega$ max. 2) No damage, cracks or looseness of parts.			Х	_		
			0.35 mm,	cy 10 to 500 Hz n, 50 m/s ² each of 3 mutually perpendicular axis.			1) No electrical discontinuity of 1µs. 2) No damage, cracks or looseness of parts.			Х	_		
C	COUN	T DES		N OF REVISIONS		DESIG	SNED			CHECKED	DA	TE	
<u>A</u>	1		DIS-E	-00001800		JY.IC	GA			KI.NAGANUMA	2018100		
Note Note 1. Non-condensing.			ina.	efer to IEC 60512.			APPROV CHECK				201703		
Unless otherwise specified, re			•				D	ESIGN DRAW	ED	HT.SATO	201703		
Note QT:Qualification Test AT:Assurance Test X:				surance Test X:Applicable T	Applicable Test DI		RAWING NO.			ELC-129486-0			
	र			ICATION SHEET	PART				X310	(31G-B-10S-CV (7. 0)			
Н			OSE EI	SE ELECTRIC CO., LTD.		CODE NO		o. CL251-		-0024-0-01	<u> 3</u>	1/2	
				· · · · · · · · · · · · · · · · · · ·								_	

1754	TEOT METUOS	DECLUBERATE TO	<u> </u>	
ITEM	TEST METHOD	REQUIREMENTS	QT	А٦
Fretting Corrosion	490 m/s ² , 30 times/min at 1000 times.	1) No electrical discontinuity of 1μs.	X	
	_	2) No damage, cracks or looseness of parts.	^	
Shock	Subject mated specimens to 300 m/s² half-sine shock pulses	1) No electrical discontinuity of 1μs.	V	
	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.	Х	
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	_
FNVIRONMENTAL	CHARACTERISTICS			-
	Subject mated specimens to 10 cycles between -55°C and	1) Voltage proof : 500 V DC applied for 1 min.		
tapid change of Temperature	85°C with 30 minutes dwell at temp. Extremes and 1 minute		Х	-
	transition between temperatures.	Current leakage 2mA max.		
		No flashover or breakdown.		
		2) Resistance: Contact : 80 mΩ max.		
		Shield : 100 mΩ max.		
		3) Insulation resistance: 500 MΩ min. (at dry)4) No damage, cracks or looseness of parts.		
I	L tarra a satura 05 00.		V	
Humidity / Temperature Cycling	Low temperature 25 °C;	1) Resistance: Contact : 80 mΩ max.	Х	-
Dyoling .	High temperature 65 °C;	Shield: $100 \text{ m}\Omega$ max.		
	Cold sub-cycle – 10 °C;			
	Relative humidity 93 %	2) Insulation resistance: 500 MΩ min. (at dry)		
	Duration 10 / each 24 h	No damage, cracks or looseness of parts.		
	(IEC 60068-2-38,test Z / AD)		\ \	
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93 % at a temperature of 40°C during 21 days.	1) Resistance:	Х	-
	temperature of 40 C during 21 days.	Contact: 80 mΩ max.		
		Shield : 100 mΩ max.		
		2) Insulation resistance: 500 MΩ min. (at dry)		
		3) No damage, cracks or looseness of parts.		
Ory Heat	Subject to +85 ± 2 °C, 21 days.	1) Resistance:	X	_
	(mating applicable connector)	Contact: 80 mΩ max.		
		Shield: 100 mΩ max.		
		2) Insulation resistance: 500 MΩ min. (at dry)		
		3) No damage, cracks or looseness of parts.		-
Cold	Subject to -55 ± 3 °C, 10 days.	1) Resistance:	Х	_
	(mating applicable connector)	Contact : 80 mΩ max.		
		Shield: 100 mΩ max.		
		2) Insulation resistance: 500 MΩ min. (at dry)		
		3) No damage, cracks or looseness of parts.		-
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h. (leave under unmated condition.)	No heavy corrosion of contacts.	Х	
Mixed Flowing Gas Corrosion	Test temperature : +25±1 °C, Relative humidity : 75±3 %	1) Resistance:	Х	-
<u>/</u> 3\	H ₂ S: 10±5 ppb, NO ₂ : 200±50 ppb	Contact : 80 mΩ max.		
_	Cl ₂ : 10±5 ppb, SO ₂ : 200±20 ppb Leave the samples for 4 days with mated.	Shield : 100 m Ω max. 2) No damage, cracks or looseness of parts.		
	The same is performed with unmated samples. (IEC 60512, method 4)			

Note QT	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129486-01-00		
HC	SPECIFICATION SHEET	PART NO.	IX31G-B-10S-CV (7. 0) (01)			ı
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL251	-0024-0-01	<u> </u>	2/2