APPLICA	BLE STAN	DARD	IEC 61076-3-124							
Pating	Operating Temperature Range		-40°C to +85°C(95%RH max) (note1,2)	Stora Rang	age Temperature -30°C to (note1)		C to +60°C(95%RH max))			
Rating	Voltage				Currer			1.5 A/pin (all pin)	
	Volta		50 V AC / 60 V DC		Current			3 A/pin (pin No.1,2,	6,7)	
			SPECIF	ICATIO	DNS					
IT	EM		TEST METHOD			R	EQU	REMENTS	QT	АТ
CONSTR	UCTION	•			•				•	
General Exam	ination	Examined	visually and with a measuring instru	ument.	Accordi	According to drawing.				
Marking		Confirmed visually.			Accordi	According to drawing.				
ELECTR	IC CHARA	CTERIS	STICS							
Contact Resistance		Measured at 100 mA max (DC or 1000 Hz).				Contact : 30 m Ω max. (note3) Shield : 100 m Ω max. (note3)				
Insulation Resistance		Measured at 500 V DC.			500 MΩ	500 MΩ min.				
Voltage Proof		500 V DC applied for 1 min. Current leakage 2mA max.			No brea	ıkdown.		<u> </u>	Х	_
Insertion Loss		Measured in the range of 1 to 500 MHz.			(Whene	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.)				_
Return Loss		Measured in the range of 1 to 500 MHz.			(Whene	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	asured in the range of 1 to 500 MHz.			4 – 20log(f) dB min. (1MHz to 250MHz) 6.04 – 30log(f/250) dB min. (250MHz to 500MHz) Whenever the formula results in a value greater than 5 dB, the requirement shall revert to 75 dB.)			X	_
Far end crosst	alk	Mossured	in the range of 1 to 500 MHz.			he requir 20log(f) d		shall revert to 75 dB.)		
i ai eiu ciossi	air	ivieasureu	in the range of 1 to 300 Minz.		(Whene	ver the fo	ormula	results in a value greater tha shall revert to 75 dB.)	n X	-
Transverse Conversion Loss		Measured in the range of 1 to 500 MHz.			(Whene	68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				_
Transverse Conversion Transfer Loss		Measured in the range of 1 to 500 MHz.			(Whene	68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				_
MECHAN	CAL CHAR	ACTER	ISTICS		100 000,1					
Insertion and V	Vithdrawal	A maximum rate of 50 mm/min.				Insertion force 25 N max. Withdrawal force 25 N max.				_
Machaniaal Or	a a ration		by applicable connector.		1) Resis	stanco:				-
Mechanical Operation		5000 times insertions and extractions. Mating speed: 10 mm/s max.			Contac	Contact : 80 m Ω max. (note3) Shield : 100 m Ω max. (note3)			X	-
		Rest : 5s, min.(unmated)				No damage, cracks or looseness of parts.				
3. The cable	conductor resista	ance is not c	nperature includes the temperature considered. to the contacts and shield except for	•						
COUN	IT DESC	CRIPTIC	N OF REVISIONS	DESI	GNED			CHECKED	DA	ΛTE
<u>^</u> 7		DIS-E	E-00014713	MT.Y	ASUDA			KI.KAGOTANI	2024	10119
REMARK					AF	PPRO	√ED	MN.KENJO	2019	1209
						HECK		KI.NAGANUMA	2019	
I Inless otherwise spec		cified, refer to IEC 60512.				DESIGN DRAW		MT.YASUDA	2019	
			surance Test X:Applicable Test	г	DRAWIN			YK.MITSUISHI ELC-129982-(2019 20_0	
	1		ICATION SHEET		T NO.			1G-B-10S-CVL2 (7		
HS	HIR	OSE EI	LECTRIC CO., LTD.	COE	E NO.	CI		1-0070-0-00		1/3

	SPECIFIC/	ATIO	NS					
ITEM	TEST METHOD			REQU	IREMENTS		QT	АТ
Vibration ,sinusoidal	Frequency 10 to 500 Hz			1) No electrical discontinuity of 1µs. (note4)				
	0.35 mm, 50 m/s ²		2) No da	amage, cracks o	looseness of parts.		Х	_
	2hrs in each of 3 mutually perpendicular axis.							
Fretting Corrosion	490 m/s ² , 30 times/min at 1000 times.		1) No el	ectrical discontin	uity of 1µs. (note4)			
				amage, cracks o	looseness of parts.		Х	_
Mechanical Shock	Subject mated specimens to 300 m/s² half-sine shoo	ck pulses	1) No electrical discontinuity of 1μs. (note4)					
	of 11 milliseconds duration, 3 shocks in both direction		2) Resis		, , , , , , , , , , , , , , , , , , , ,		Х	_
	mutually perpendicular directions (totally 18 shocks)		Cont	act : 80 mΩ max	z. (note4)			
			Shie	ld : 100 mΩ ma	ax. (note4)			
			3) No da	amage, cracks o	looseness of parts.			
								
Effectiveness of the connecto coupling device	Applying 80 N force 60 s for the mating axis direction in state in fitted with applicable connector.			No unlocking, damage, cracks or looseness of parts.				_
Locking device mechanical	10000 cycles			ion and Withdra	wal Forces			
operations	20 cycles/min max		· ·		5 N max.		Х	_
			Withdrawal force 25 N max.					
				No damage, cracks or looseness of parts.				
				· · · · · · · · · · · · · · · · · · ·				
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on ticase in state in fitted with applicable connector.	p of plug	No dam	age, cracks or lo	oseness of parts.		Х	_
ENI/IRONMENTAI	CHARACTERISTICS							
			4)) / 1/	(500.)/	DO 11 14 4 1			
Rapid Change of Temperatur	Subject mated specimens to 10 cycles between -55°C and 85°C with 30 minutes dwell at temp. extremes and 2 to 3		1) Voltage proof: 500 V DC applied for 1 min.			Х		
	minutes transition between temperatures.	. 10 3		ent leakage 2mA max.			^	
	Timutes transition between temperatures.			reakdown.				
			2) Resis		(noto3)			
				act : 80 mΩ max				
				Shield: 100 mΩ max. (note3) 3) Insulation resistance: 500 MΩ min. (at dry) 4) No damage, cracks or looseness of parts.				
			4) No da	amage, cracks of	looseness of parts.			
Humidity / Temperature	Low temperature 25 °C;		1) \/olta	go proof : 500 V	DC applied for 1 min		Х	
Cycling	High temperature 65 °C;			nt leakage 2mA		•	^	
-,9	- '			=	max.	^		
	Cold sub-cycle = 10 °C; Relative humidity 93 %			eakdown.		$\angle 2$		
	, , , , , , , , , , , , , , , , , , , ,		2) Resis		(note3)			
	Duration 10 / each 24 h			Contact : $80 \text{ m}\Omega$ max. (note3) Shield : $100 \text{ m}\Omega$ max. (note3)				
	(IEC 60068-2-38,test Z / AD)				500 M Ω min. (at dry)			
			,	ion and Withdra	, ,,,			
					5 N max.			
			With	drawal force 2	25 N max.			
		5) No damage, cracks or looseness of parts.						
			-,					
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93 % at a		1) Voltage proof : 500 V DC applied for 1 min.				Х	_
zamp moat, otoday otato	temperature of 40°C during 21 days.	o 70 at a	Current leakage 2mA max.				^	
				eakdown.		/2\		
			2) Resis					
			Contact : 80 m Ω max. (note3) Shield : 100 m Ω max. (note3)					
			3) Insulation resistance: 500 M Ω min. (at dry)					
			4) Insertion and Withdrawal Forces Insertion force 25 N max. Withdrawal force 25 N max.					
			5) No da	amage, cracks o	looseness of parts.			
				· 	·			
Note QT:Qualification Te	est AT:Assurance Test X:Applicable Test	DI	DRAWING NO. ELC-129982-0		82-00	0-00)	
HS S	SPECIFICATION SHEET		NO. IX310		IG-B-10S-CVI	L2 (7.	0)	
	HIROSE ELECTRIC CO., LTD.			ODE NO CL0251-0070-0-00 /2				2/3
410	SUSEFIFUIBILLUS I III	1 ((())) 1	- [7]()	(7) (1/2)	1 —()() / ()—()—()()	1 4	//\ I	

	SPECIFICATIO	NS .	1	
ITEM	TEST METHOD	REQUIREMENTS	QT	А٦
ENVIRONMENTAL	CHARACTERISTICS			
Dry Heat	Subject to +85 ± 2 °C, 21 days. (mating applicable connector)	 Voltage proof: 500 V DC applied for 1 min. Current leakage 2mA max. No breakdown. Resistance: Contact: 80 mΩ max. (note3) Shield: 100 mΩ max. (note3) Insulation resistance: 500 MΩ min. (at dry) Insertion and Withdrawal Forces Insertion force: 25 N max. Withdrawal force: 25 N max. No damage, cracks or looseness of parts. 	X	
Cold	Subject to -55 ± 3 °C, 10 days. (mating applicable connector) 1) Voltage proof : 500 V DC applied for 1 min. Current leakage 2mA max. No breakdown. 2) Resistance: Contact : 80 mΩ max. (note3) Shield : 100 mΩ max. (note3) 3) Insulation resistance: 500 MΩ min. (at dry) 4) Insertion and Withdrawal Forces Insertion force 25 N max. Withdrawal force 25 N max. Withdrawal force 25 N max. 5) 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: $\pm 25\pm 1$ °C, Relative humidity: $\pm 75\pm 3$ % H ₂ S: $\pm 10\pm 5$ ppb, NO ₂ : $\pm 200\pm 50$ ppb Cl ₂ : $\pm 10\pm 5$ ppb, SO ₂ : $\pm 200\pm 20$ ppb Leave the samples for 4 days with mated. The same is performed with unmated samples. (IEC 60512, method 4)	 Resistance: Contact : 80 mΩ max. (note3) Shield : 100 mΩ max. (note3) No damage, cracks or looseness of parts. 	X	_

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129982-00-00			
HS	SPECIFICATION SHEET	PART NO.	IX31G-B-10S-CVL2 (7. 0)				
1.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL025	1-0070-0-00	<u>À</u>	3/3	