APPLICA	BLE STAN	DARD	IEC 61076-3-124								
Operating Temperature Range		perature	-40°C to +85°C(95%RH (note1,2)	IRange		orage Temperature nge		-30°C to +60°C(95%RH max) (note1)			
RATING	Voltage		(**************************************			Current	1.5 A/pin (all pin)				
Volta		ge 50 V AC / 60 V DC			Ourient		3 A/pin (pin No.1,2,6,7	7)			
			SPECI	FICAT	101	NS					
I7	EM		TEST METHOD				REQL	JIREMENTS	QT	АТ	
CONSTF	RUCTION										
General Exam	ination	Examined visually and with a measuring instrument.			According to drawing.				Χ		
Marking		Confirmed visually.			According to drawing.				Χ		
ELECTR	IC CHARA	CTERIS	STICS								
Contact Resis	tance	Measured	at 100 mA max (DC or 1000 Hz).		\triangle	Contact : 30 n Shield : 100			Х	_	
Insulation Resistance		Measured at 500 V DC.				500 MΩ min.				_	
Voltage Proof		500 V DC	applied for 1 min. Current leakage	e 2mA max.		No flashover or	breakdo	own.	Χ	_	
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		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 Cros	estalk	Measured	in the range of 1 to 500 MHz.			94 – 20log(f) dl 46.04 – 30log(f (Whenever the	3 min. (1 /250) dB formula	min. (250MHz) min. (250MHz to 500MHz) results in a value greater than shall revert to 75 dB.)	х	_	
Far end cross	alk	Measured	in the range of 1 to 500 MHz.			83.1 – 20log(f) (Whenever the	dB min. formula	results in a value greater than shall revert to 75 dB.)	х	_	
Transverse Conversion Loss		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.)				_	
Transverse Conversion Transfer Loss		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.)				_	
MECHAN	ICAL CHAR	ACTERI	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		5000 times Mating spe	2000 times insertions and extractions. ating speed: 10 mm/s max.			1) Resistance: Contact : $80 \text{ m}\Omega$ max. (note3) Shield : $100 \text{ m}\Omega$ max. (note3) 2) No damage, cracks or looseness of parts.			Х	_	
Note		Hest : 5s, i	min.(unmated)		['	L, INO Gamaye,	JI GONO (π 1000011000 01 ματίδ.		<u> </u>	
3. The cable	conductor resista	ance is not c	mperature includes the temperature considered. to the contacts and shield except	·		, ,					
COUN	T DE	SCRIPTION	ON OF REVISIONS		ESIG	NED		CHECKED	DA	TE	
18	↑ 18 DIS-E-00003730 MT.Y		IT.YAS	ASUDA K		KI.KAGOTANI	2021	0317			
REMARK						APPRO	VED	MN.KENJO	2019		
						1 011-01	/ED				



	COUNT	NT DESCRIPTION OF REVISIONS		DESIGNE	D		DATE	
\triangle	18	DIS-E-00003730	MT.YASUD				KI.KAGOTANI	20210317
RE	MARK				APPRO\	/ED	MN.KENJO	20191209
					CHECK	ED	KI.NAGANUMA	20191209
							MT.YASUDA	20191209
Un	Unless otherwise specified, refer to IEC 60512.				DRAWN		YK.MITSUISHI	20191209
Not	Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.			ELC-129983	-00-00
1	RS	SPECIFICATION SHEET PART NO. IX32G-A		2G-A-8S-CVL1(7.0)			
11.0		HIROSE ELECTRIC CO., LTD.		CODE NO	D. C	CL0251-0071-0-00		1/3

 Λ

 \triangle

 \triangle

 \triangle

	SPECIFICAT	ΠΟ	NS			
ITEM	TEST METHOD		REQUIREMENTS	QT	ГА	
Vibration ,sinusoidal	Frequency 10 to 500 Hz	1) No electrical discontinuity of 1µs. (note4)				
	0.35 mm, 50 m/s ²	2) No damage, cracks or looseness of parts.	X	-		
	2hrs in each of 3 mutually perpendicular axis.					
Fretting Corrosion	490 m/s ² , 30 times/min at 1000 times.	1) No electrical discontinuity of 1µs. (note4)	X			
		2) No damage, cracks or looseness of parts.	^			
Mechanical Shock	Subject mated specimens to 300 m/s² half-sine shock p		1) No electrical discontinuity of 1µs. (note4)	\ \ \		
	of 11 milliseconds duration, 3 shocks in both directions mutually perpendicular directions (totally 18 shocks)	of 3	2) Resistance:	X	-	
	initially perpendicular directions (totally 10 shocks)	Λ	Contact : 80 mΩ max. (note4)			
			Shield: 100 mΩ max. (note4)			
			No damage, cracks or looseness of parts.			
	Applying 80 N force for the mating axis direction in state	e in	No unlocking, damage, cracks or looseness of p	arts. X	-	
coupling device	fitted with applicable connector.	4) lassation and With during France				
Locking device mechanical operations	10000 cycles 20 cycles/min max	Insertion and Withdrawal Forces Insertion force				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20 Cycles/IIIII IIIax					
	Applying Office of 20 N to fav 0 axis divestion as the			-		
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on tip of case in state in fitted with applicable connector.	n plug	No damage, cracks or looseness of parts.	X	-	
ENVIRONMENTAL	CHARACTERISTICS					
Rapid Change of Temperature	Subject mated specimens to 10 cycles between -55°C	and	1) Voltage proof : 500 V DC applied for 1 min.			
\wedge	85°C with 30 minutes dwell at temp. extremes and 2 to	3	Current leakage 2mA max.	X	-	
/1\	minutes transition between temperatures.		No flashover or breakdown.			
			2) Resistance:			
		\bigwedge	Contact : 80 mΩ max. (note3)			
		<u> </u>	Shield : 100 mΩ max. (note3)			
			3) Insulation resistance: 500 M Ω min. (at dry)			
			4) No damage, cracks or looseness of parts.			
Humidity / Temperature	Low temperature 25 °C;	Λ	1) Voltage proof : 500 V DC applied for 1 min.	X	+	
Cycling	High temperature 65 °C;	<u>/1</u>	Current leakage 2mA max.			
	Cold sub-cycle - 10 °C;		No flashover or breakdown.			
	Relative humidity 93 %		2) Resistance:			
	Duration 10 / each 24 h	Contact : 80 mΩ max. (note3)				
	(IEC 60068-2-38,test Z / AD)		Shield : 100 mΩ 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.				
			No damage, cracks or looseness of parts.			
	Subject mated specimens to a relative humidity of 93 %	6 at a	Voltage proof : 500 V DC applied for 1 min.	X		
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93 % temperature of 40°C during 21 days.	\wedge	Voltage proof : 500 V DC applied for 1 min. Current leakage 2mA max.	X	-	
Damp Heat, Steady State	T	% at a	Voltage proof : 500 V DC applied for 1 min. Current leakage 2mA max. No flashover or breakdown.	X	-	
Damp Heat, Steady State	T	\wedge	Current leakage 2mA max.	X	-	
Damp Heat, Steady State	T	\wedge	Current leakage 2mA max. No flashover or breakdown.	X	-	
Damp Heat, Steady State	T	\wedge	Current leakage 2mA max. No flashover or breakdown. 2) Resistance:	X	-	
Damp Heat, Steady State	T	\wedge	Current leakage 2mA max. No flashover or breakdown. 2) Resistance: Contact : 80 mΩ max. (note3) Shield : 100 mΩ max. (note3) 3) Insulation resistance: 500 MΩ min. (at dry)	X	-	
Damp Heat, Steady State	T	\wedge	Current leakage 2mA max. No flashover or 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	X	-	
Damp Heat, Steady State	T	\wedge	Current leakage 2mA max. No flashover or 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.	X	_	
Damp Heat, Steady State	T	\wedge	Current leakage 2mA max. No flashover or 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.	X	-	
Damp Heat, Steady State	T	\wedge	Current leakage 2mA max. No flashover or 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.	X	-	
	T	<u>^</u>	Current leakage 2mA max. No flashover or 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.			
Note QT:Qualification Tes	temperature of 40°C during 21 days.	<u>^</u>	Current leakage 2mA max. No flashover or 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. 5) No damage, cracks or looseness of parts. RAWING NO. ELC-12998	33-00-0		

	SPECIFICA	1110	112					
ITEM	TEST METHOD			REQUI	REMENTS		QT	Α
ENVIRONMENTAL	CHARACTERISTICS		_					
Ory Heat	Subject to +85 ± 2 °C, 21 days. (mating applicable connector)	\triangle	Current I No flasho 2) Resistar Contact Shield 3) Insulatio 4) Insertior Insertio Withdra	leakage 2mA in over or breakonce: t : 80 mΩ max : 100 mΩ max on resistance: a and Withdraw in force 2 awal force 2	. (note3) .x. (note3) 500 MΩ min. (at	dry)	X	_
Cold	Subject to -55 ± 3 °C, 10 days. (mating applicable connector)	<u> </u>	Current I No flasho 2) Resistar Contact Shield 3) Insulatio 4) Insertior Insertio Withdra	leakage 2mA in over or breakonce: t: 80 mΩ max : 100 mΩ max on resistance: a and Withdraw in force 2 awal force 2	lown (note3) x. (note3) 500 MΩ min. (at wal Forces 5 N max.	dry)	X	-
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h. (leave under unmated condition.)		No heavy	corrosion of c	ontacts.		X	-
Mixed Flowing Gas Corrosion	Test temperature : $+25\pm1$ °C, Relative humidity : 70 ± 2 : 10 ± 5 ppb, NO_2 : 200 ± 50 ppb Cl_2 : 10 ± 5 ppb, SO_2 : 200 ± 20 ppb Leave the samples for 4 days with mated. The same is performed with unmated samples. (IEC 60512, method 4)	75±3 %	Shield	$t:80~\text{m}\Omega~\text{max}$ $:100~\text{m}\Omega~\text{ma}$		arts.	Х	_
	st AT:Assurance Test X:Applicable Test		RAWING					0
	st AT:Assurance Test X:Applicable Test PECIFICATION SHEET	D PAR1		ING			<u> </u>	ING NO. ELC-129983-00-00

 \triangle

CL0251-0071-0-00

CODE NO

3/3

HIROSE ELECTRIC CO., LTD.