APPLICABLE STANDARD			IEC 61076-3-124								
Operating Temp Range		perature	-40°C TO +85°C(95%RH max) Storage Range			e Temperature		-30°C TO +60°C(95%RH max) (note1)			
Rating			(Hote I)				1.5 A/pin (all pin)				
	Volta	ge	50 V AC / 60 V D	C	Cı	urrent		3 A/pin (pin No.1,2,6			
			SPEC	IFICAT	TION!	<u> </u>	1	о ларии (рин тоги, _, ,	-,. <i>j</i>		
IT	EM		TEST METHOD				FOLI	IREMENTS	QT	АТ	
	RUCTION		TEOT WETTIOD			- 1	LQU	IIILIIILIII	Į Q I		
General Exam		Examined visually and with a measuring instrument.			Ac	According to drawing.				Х	
Marking		Confirmed visually.				According to drawing.				X	
ELECTR	IC CHARA	CTERI	STICS			<u> </u>					
Contact Resistance		Measured at 100 mA max (DC or 1000 Hz).				Contact : $30 \text{ m}\Omega$ max. Shield : $100 \text{ m}\Omega$ max.					
Insulation Res	sistance	Measured at 500 V DC.			500	500 MΩ min.				_	
Voltage Proof		500 V DC applied for 1 min. Current leakage 2mA max.			. No	No flashover or breakdown.				_	
Insertion Loss					(W	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.			(W	68 – 20log(f) dB min. (Whenever the formula results in a value greater than 30 dB, the requirement shall revert to 30 dB.)			X	-	
Near end Cros	sstalk	Measured in the range of 1 to 500 MHz.			46. (W	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. (W	83.1 – 20log(f) dB min. (Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)			X	-	
Transverse Conversion Loss		Measured in the range of 1 to 500 MHz.			(W	68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)			X	-	
Transverse Conversion Transfer Loss		Measured in the range of 1 to 500 MHz.			(W	68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)			X	_	
MECHAN	ICAL CHAR	ACTER	ISTICS			<u> </u>		,		l .	
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	5000 times insertions and extractions. Mating speed : 10 mm/s max. Rest : 5s, 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	_	
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	_	
COU	NT DESC	CRIPTIC	ON OF REVISIONS	D	ESIGN	ED		CHECKED	DA	DATE	
<u> </u>		DIS-E	E-00001800		JY.IGA	٨		KI.NAGANUMA	2018100 5		
Note					APPROV		RI.TAKAYASU	2017	70328		
Note 1. Non-condensing.						CHECK		KI.NAGANUMA	2017032		
Unless otherwise specified, re			fer to IEC 60512.			DESIGNED DRAWN		HT.SATO HT.SATO	201703 201703		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			est	DRAWING NO. ELC-129419-(1-0	0			
ЖS	SPECIFIC	CIFICATION SHEET			PART N	RT NO. IX30G-A-10S-CV (7. 0)		G-A-10S-CV (7. 0)	(01)	ı	
	HIR	HIROSE ELECTRIC CO., LTD.			CODE N	o. (CL251-0020-0-01			1/2	

ITEM	TEST METHOD	REQUIREMENTS	QT	АΊ	
	490 m/s ² , 30 times/min at 1000 times.	1) No electrical discontinuity of 1µs.	Qı		
Fretting Corrosion	490 m/s , 30 times/min at 1000 times.	2) No damage, cracks or looseness of parts.	Х	_	
2hook	Subject mated specimens to 300 m/s² half-sine shock pulses	· · · · · · · · · · · · · · · · · · ·			
Shock	of 11 milliseconds duration, 3 shocks in both directions of 3	1) No electrical discontinuity of 1µs.	Х	_	
	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	No unlocking, damage, cracks or looseness of parts.			
	fitted with applicable connector.		Χ	_	
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				
	ure Subject mated specimens to 10 cycles between -55°C and 1) Voltage proof : 500 V DC applied for 1 min.				
rapid orialigo or romporataro	85°C with 30 minutes dwell at temp. Extremes and 1 minute	Current leakage 2mA max.	Х	_	
	transition between temperatures.	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.			
Humidity / Temperature	Low temperature 25 °C;	1) Resistance:	X	-	
Cycling	High temperature 65 °C;	Contact : 80 m Ω max.			
	Cold sub-cycle - 10 °C;	Shield : 100 m Ω max.			
	Relative humidity 93 %	2) Insulation resistance: 500 MΩ min. (at dry)			
	Duration 10 / each 24 h	3) 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	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.			
Dry Heat	Subject to +85 ± 2 °C, 21 days.	1) Resistance:	Х		
Dry Heat		Contact : 80 m Ω max.	^	_	
	(mating applicable connector)	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:	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.			
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h.	No heavy corrosion of contacts.	Χ	_	
	(leave under unmated condition.)				
Mixed Flowing Gas Corrosion	Test temperature: +25±1 °C, Relative humidity: 75±3 %	1) Resistance:	Х	_	
\searrow	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	Shield : 100 mΩ max.			
	Leave the samples for 4 days with mated.	2) No damage, cracks or looseness of parts.			
	The same is performed with unmated samples.				
	(IEC 60512, method 4)	1	İ	1	

Note QT:Q	ualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129419-01-00		
SH.	SPECIFICATION SHEET	PART NO.	IX30G-A-10S-CV (7. 0) (01)			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL251	-0020-0-01	<u> </u>	2/2