





APPLICABLE STANDARD		IEC 61076-3-124			
Rating	Operating Temperature Range	-40°C TO +85°C(95%RH max) 	Storage Temperature Range	-30°C TO +60°C(95%RH max)	
	Voltage	50 V AC / 60 V DC	Current	1.5 A/pin (all pin)  3 A/pin (pin No.1,2,6,7)	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
CONSTRUCTION					
General Examination	Examined visually and with a measuring instrument.		According to drawing.	X	X
Marking	Confirmed visually.		According to drawing.	X	X
ELECTRIC CHARACTERISTICS					
Contact Resistance	Measured at 100 mA max (DC or 1000 Hz).		contact : 30 mΩ max. shield : 100 mΩ max.	X	—
Insulation Resistance	Measured at 500 V DC.		500 MΩ min.	X	—
Voltage Proof	500 V DC applied for 1 min. Current leakage 2mA max.		No flashover or breakdown.	X	—
Insertion loss	Measured in the range of 1 to 500 MHz.		0.02 √(f) dB max. (Whenever the fomula 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.		68 – 20log(f) dB min. (Whenever the fomula results in a value greater than 30 dB, the requirement shall revert to 30 dB.)	X	—
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 fomula 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.		83.1 – 20log(f) dB min. (Whenever the fomula 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.		68 – 20log(f) dB min. (Whenever the fomula 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.		68 – 20log(f) dB min. (Whenever the fomula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)	X	—
MECHANICAL CHARACTERISTICS					
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.	X	—
Mechanical Operation	5000 times insertions and extractions. mating speed : 10 mm/s max. rest : 5s, min.(unmated)		1) Resistance: contact : 80 mΩ max. shield : 100 mΩ max. 2) No damage, cracks or looseness of parts.	X	—
Vibration	Frequency 10 to 500 Hz 0.35 mm, 50 m/s ² 2hrs in each of 3 mutually perpendicular axis.		1) No electrical discontinuity of 1μs. 2) No damage, cracks or looseness of parts.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	2	DIS-E-00001074	YS.SAKODA	KI.NAGANUMA	17.07.10
Note Unless otherwise specified, refer to IEC 60512.			APPROVED	RI.TAKAYASU	17.04.11
			CHECKED	KI.NAGANUMA	17.04.11
			DESIGNED	TS. SAKAIZAWA	17.04.11
			DRAWN	TS. SAKAIZAWA	17.04.11
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-129431-01-00	
	SPECIFICATION SHEET		PART NO.	IX40G-A-10S-CV (7.0) (01)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL251-0022-0-01	 1/2

SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
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.	X	—	
Shock	Subject mated specimens to 300 m/s ² half-sine shock pulses of 11 milliseconds duration, 3 shocks in both directions of 3 mutually perpendicular directions (totally 18 shocks)	1) No electrical discontinuity of 1μs. 2) No damage, cracks or looseness of parts.	X	—	
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.	X	—	
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.	X	—	
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: contact : 80 mΩ max. shield : 100 mΩ max. 3)Insulation resistance: 500 MΩ min. (at dry) 4) No damage, cracks or looseness of parts.	X	—	
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.	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	—	
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.	X	—	
Cold	Subject to -55 ± 3 °C, 10 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.	X	—	
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h. (left under unmated condition.)	No heavy corrosion of contacts.	X	—	
Mixed flowing gas corrosion	Test temperature : +25±1 °C, Relative humidity : 75±3 % H ₂ S : 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 mΩ max. shield : 100 mΩ max. 2) No damage, cracks or looseness of parts.	X	—	
Solderbility	Soldering point immersed in solder bath of +235 ± 5 °C,5 sec. (using type r flux)	Solder shall cover minimum of 95 % of The surface being immersed.	X	—	
Resistance To Soldering Heat	Temperature +350 ± 10 °C,5 sec at soldering parts.	No damage, cracks or looseness of parts.	X	—	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO. ELC-129431-01-00		
HRS	SPECIFICATION SHEET		PART NO.	IX40G-A-10S-CV (7.0) (01)	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL251-0022-0-01	2/2