APPLICA	BLE STAN	IDARD	IEC 61076-3-124								
RATING	Operating Temperature Range				Storage T Range	ge Temperature		-30°C to +60°C(95%RH max (note1)		ax)	
RATING	Volta	age	50 V AC / 60 V DC		С	Current		1.5 A/pin (all pin)			
			30 V AC / 60 V BC			3 A/pin (pin No.1,2,6			,7)		
		1	SPECI	IFICA	TION	S					1
l I	EM		TEST METHOD					REQU	IREMENTS	QT	АТ
CONSTR	UCTION										
General Exam	ination	Examined	Examined visually and with a measuring instrument.			According to drawing.				Х	X
Marking Confir			firmed visually.			ccording	g to drav	wing.		Χ	Χ
ELECTR	IC CHARA	CTERI	STICS								,
Contact Resis	ance	Measured at 100 mA max (DC or 1000 Hz).				Contact : 30 m Ω max. (note3) Shield : 100 m Ω max. (note3)				Х	_
Insulation Res	istance	Measured at 500 V DC.			50	00 MΩ r	min.			Х	_
Voltage Proof		500 V DC applied for 1 min. Current leakage 2mA max.			k. No	o break	down.		<u></u>	Х	_
Insertion Loss		Measured	ed 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.)			X	_	
Return 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 30 dB, the requirement shall revert to 30 dB.)			X	_	
Near end Cros	stalk	Measured	sured 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.)			X	_	
Far end cross	alk	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.			68 (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 Co Transfer Loss	Transverse Conversion Transfer 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.)			X	_	
MECHAN	CAL CHAP	RACTER	ISTICS		100	, 42,					
			mum rate of 50 mm/min.			Insertion force 25 N max. Withdrawal force 25 N max.			Х	_	
			Measured by applicable connector.			A) Davistanası					
Mechanical Operation			mes insertions and extractions. speed : 10 mm/s max.			1) Resistance: Contact: $80 \text{ m}\Omega$ max. (note3) Shield: $100 \text{ m}\Omega$ max. (note3)			X	_	
			est : 5s, min.(unmated)			2) No damage, cracks or looseness of parts.					
3. The cable	conductor resist	ance is not o	mperature includes the temperaticonsidered. to the contacts and shield except	•		, ,					
COUN	T D	ESCRIPTI	ON OF REVISIONS		DESIGNE	ED			CHECKED	DA	ΛTE
<u>6</u> 7		DIS-	E-00016077	ļ	MT.YASU	IDA			KI.KAGOTANI	20240419	
REMARK						С	PPROV CHECKI	ED	RI.TAKAYASU KI.NAGANUMA	2017	0411 0411
Unless otherwise specified, re			efer to IEC 60512.					TS.SAKAIZAWA TS.SAKAIZAWA	2017041		
						DRAWING NO. ELC-129431-(01-0	0	
ЖS	S	PECIF	CATION SHEET		PART N	NO. IX40G-A-10S-CV(7.		G-A-10S-CV(7.0)))(01)		
	HIR	OSE E	LECTRIC CO., LTD.		CODE N	NO. C		_025	51-0022-0-01	<u>^</u>	1/3

	SPECIFIC <i>A</i>	ATIONS				
ITEM	TEST METHOD		REQUIREMENTS	QT	АТ	
Vibration ,sinusoidal	Frequency 10 to 500 Hz 0.35 mm, 50 m/s ²	"	1) No electrical discontinuity of 1µs. (note4) 2) No damage, cracks or looseness of parts.			
	2hrs in each of 3 mutually perpendicular axis.			X		
Fretting Corrosion	490 m/s ² , 30 times/min at 1000 times.	1) No e	1) No electrical discontinuity of 1µs. (note4)			
		2) No c	2) No damage, cracks or looseness of parts.			
Mechanical Shock	of 11 milliseconds duration, 3 shocks in both directions of 3 mutually perpendicular directions (totally 18 shocks)		1) No electrical discontinuity of 1μs. (note4) 2) Resistance: Contact: 80 mΩ max. (note4) Shield: 100 mΩ max. (note4) 3) No damage, cracks or looseness of parts.			
Effectiveness of the connector coupling device	Applying 80 N force 60 s for the mating axis direction in fitted with applicable connector.	n in state No unlo	ocking, damage, cracks or looseness of parts.	X	_	
Locking device mechanical	10000 cycles	1) Inse	rtion and Withdrawal Forces			
operations	20 cycles/min max	With	Insertion force 25 N max. Withdrawal force 25 N max. 2) No damage, cracks or looseness of parts.			
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on till case in state in fitted with applicable connector.	p of plug No dan	nage, cracks or looseness of parts.	Х	_	
ENVIRONMENTA	CHARACTERISTICS	·				
Rapid Change of Temperatui	e Subject mated specimens to 10 cycles between -55° 85°C with 30 minutes dwell at temp. extremes and 2 minutes transition between temperatures.	to 3 Curre No b 2) Resi Cor Shie 3) Insu	age proof : 500 V DC applied for 1 min. ent leakage 2mA max. reakdown. \bigcirc stance: atact : 80 m Ω max. (note3) eld : 100 m Ω max. (note3) lation resistance: 500 M Ω min. (at dry) lamage, 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)	Curre No b 2) Resi Cor Shie 3) Insu 4) Inse Inse	age proof : 500 V DC applied for 1 min. ent leakage 2mA max. reakdown.	X	_	
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93 temperature of 40°C during 21 days.	Curre No b 2) Resi Cor Shie 3) Insu 4) Inse Inse	age proof : 500 V DC applied for 1 min. ent leakage 2mA max. reakdown. $\stackrel{\frown}{\Omega}$ stance: stanct : 80 m Ω max. (note3) eld : 100 m Ω max. (note3) lation resistance: 500 M Ω min. (at dry) rition and Withdrawal Forces ention force 25 N max. endrawal force 25 N max.	X	_	
	temperature of 40°C during 21 days.	Curro No b 2) Resi Cor Shi 3) Insu 4) Inse Inse Witt 5) No c	ent leakage 2mA max. reakdown. \bigcirc stance: stance: stance: led: 100 m Ω max. (note3) led: 100 m Ω max. (note3) leation resistance: 500 M Ω min. (at dry) rtion and Withdrawal Forces leation force 25 N max. leamage, cracks or looseness of parts.		0	
Note QT:Qualification T	1 .	Curre No b 2) Resi Cor Shie 3) Insu 4) Inse Inse	ent leakage 2mA max. reakdown. stance: stance: stact: $80 \text{ m}\Omega$ max. (note3) eld: $100 \text{ m}\Omega$ max. (note3) lation resistance: $500 \text{ M}\Omega$ min. (at dry) rition and Withdrawal Forces ention force 25 N max. andrawal force 25 N max. lamage, cracks or looseness of parts.	01-0	0	

17514	SPECIFICATIO	DECLUDENTAL	ОТ.	
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ
ENVIRONMENTAL	CHARACTERISTICS	1		T
Dry Heat	Subject to +85 ± 2 °C, 21 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. 5) 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. 5) No damage, cracks or looseness of parts.	X	_
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: $+25\pm1$ °C, Relative humidity: 75 ± 3 % $H_2S: 10\pm5$ ppb, $NO_2: 200\pm50$ ppb $Cl_2: 10\pm5$ ppb, $SO_2: 200\pm20$ ppb Leave the samples for 4 days with mated. The same is performed with unmated samples. (IEC 60512, method 4)	1) Resistance: Contact : 80 mΩ max. (note3) Shield : 100 mΩ max. (note3) 2) No damage, cracks or looseness of parts.	X	_
Solderability	Temperature +350 ± 10 °C, 3 sec at soldering parts.	Wetting on solder surface. No solder cluster.	Х	_
Resistance To Soldering Heat	Temperature +350 ± 10 °C, 5 sec at soldering parts.	No damage, cracks or looseness of parts.	Х	_

Note (lote QT:Qualification Test AT:Assurance Test X:Applicable Test			IG NO.	ELC-129431-01-00		
K S		SPECIFICATION SHEET	PART NO.	IX40G-A-10S-CV(7.0)(01)			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL025	51-0022-0-01	<u>^</u>	3/3	