APPLIC/	۱BL	E STAN	DARD	IEC 61076-3-124								
RATING	Operating Tem Range		oerature	-40°C to +85°C(95%RH max) Storage Range					-30°C to +60°C(95%RH max) (note1)			
KATING		Voltage					Curren	t		1.5 A/pin (all pin)		
l						TION	1 (1			3 A/pin (pin No.1,2,6,	7)	
			1	SPECI	IFICA	TION	S				1	1
	TEN			TEST METHOD					REQU	IREMENTS	QT	AT
CONST	RU	CTION	1								1	
General Exar	nina	tion	Examined	visually and with a measuring in	strument.	A	According to drawing.				Х	X
Marking			Confirmed			A	According to drawing.				Χ	X
		CHARA	1							(, , 2)	1	
Contact Resis	stand	ce	Measured	at 100 mA max (DC or 1000 Hz)	l.		Contact : $30 \text{ m}\Omega$ max. (note3) Shield : $100 \text{ m}\Omega$ max. (note3)				Х	_
Insulation Re	sista	nce	Measured at 500 V DC.			50	00 MΩ	min.			Х	_
Voltage Proof	f		500 V DC	applied for 1 min. Current leakag	ge 2mA ma:	x. N	o brea	kdown.	2		Х	_
Insertion Loss	S		Measured in the range of 1 to 500 MHz.			(V	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.			(V	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 Crosstalk			Measured in the range of 1 to 500 MHz.			4€ (V	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			Х	_	
Far end crosstalk		Measured in the range of 1 to 500 MHz.		83	75 dB, the requirement shall revert to 75 dB.) 83.1 – 20log(f) dB min. (Whenever the formula results in a value greater than							
						,	75 dB, the requirement shall revert to 75 dB.)				Х	_
Transverse Conversion Loss		ersion Loss	Measured in the range of 1 to 500 MHz.			(V	68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)			Х	_	
Transverse Conversion Transfer Loss		Measured in the range of 1 to 500 MHz.		(V	68 – 20log(f) dB min. (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)			х	_			
MECHAN	IIC	AL CHAR	ACTER	ISTICS						,	1	
Insertion and Withdrawal A			A maximum rate of 50 mm/min.				Insertion force 25 N max. Withdrawal force 25 N max.				Х	-
				by applicable connector.								
Mechanical Operation			5000 times insertions and extractions.			Ó	1) Resistance: Contact : 80 m Ω max. (note3) Shield : 100 m Ω max. (note3)			Х	_	
			eed : 10 mm/s max. min.(unmated)						r looseness of parts.			
3. The cable	con	ductor resista	peration ter	mperature includes the temperate	·		, ,					
COUN	NΤ	DE	SCRIPTION	ON OF REVISIONS		DESIGN	IED			CHECKED	DA	TE
<u>^</u> 7			DIS-I	E-00016077		MT.YASL				KI.KAGOTANI	2024	0419
REMARK							(PPROV CHECKI DESIGN	ED	MN.KENJO KI.NAGANUMA MT.YASUDA	2019)1209)1209)1209
Unless otherwise specif			cified. re	efer to IEC 60512.					YK.MITSUISHI		1209	
Note QT:Qualification Test AT:As					est	DRA	DRAWING NO.		ELC-129989-0	39-01-00		
нs		SF	PECIFI	FICATION SHEET F			г NO. IX40G-A-10S-CVL2(7		-A-10S-CVL2(7.0	.0)(01)		
117		HIR	OSE EI	LECTRIC CO., LTD.		CODE N	١٥.	CI	_025	51-0077-0-01	<u>^</u>	1/3

	SPECIFIC/	OITA	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 damage, cracks or looseness of parts.				_	
	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)					
				amage, cracks o	r looseness of parts.	X	-	
Mechanical Shock	Subject mated specimens to 300 m/s² half-sine shoo	k pulses	1) No ele	1) No electrical discontinuity of 1µs. (note4)				
	of 11 milliseconds duration, 3 shocks in both direction		2) Resistance:			X	-	
	mutually perpendicular directions (totally 18 shocks)		· ·	Contact : 80 mΩ max. (note4)				
			Shiel					
			3) No da	amage, cracks o	r looseness of parts.			
	A 1: 00 M (10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
Effectiveness of the connecto coupling device	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	n in state	No unio	cking, damage,	cracks or looseness of parts	X	-	
	in fitted with applicable connector.							
Locking device mechanical operations	10000 cycles		′	ion and Withdra tion force	iwal Forces 25 N max.	X	_	
operations	20 cycles/min max							
					25 N max.			
			2) No da	amage, cracks o	r looseness of parts.			
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on tip of plug		No dama	Х	_			
ENI/IRONMENITAI	case in state in fitted with applicable connector. CHARACTERISTICS							
		00 0 = 1	4) \/-!:	no pro-f : 500 \	DC applied for 4			
Rapid Change of Temperature	Subject mated specimens to 10 cycles between -55° 85°C with 30 minutes dwell at temp. extremes and 2			- :	DC applied for 1 min.	Х	_	
	minutes transition between temperatures.		Current leakage 2mA max.					
	·			lo breakdown. 2				
			2) Resis					
				act : 80 mΩ ma:				
				Shield: 100 mΩ max. (note3)				
				3) Insulation resistance: 500 MΩ min. (at dry)				
			4) No da	amage, cracks o	r looseness of parts.			
Humidity / Temperature	Low temperature 25 °C;		1) \/olta/	ne proof : 500 V	DC applied for 1 min.	Х		
Cycling	High temperature 65 °C;			nt leakage 2mA	• •	^		
, 0					IIIax.			
	Cold sub-cycle = 10 °C;		o) D :	eakdown.				
	Relative humidity 93 %		2) Resis	act: 80 mΩ ma:	v (note3)			
	Duration 10 / each 24 h			ld: 100 m Ω m	, ,			
	(IEC 60068-2-38,test Z / AD)				, ,			
				3) Insulation resistance: 500 MΩ min. (at dry)4) Insertion and Withdrawal Forces				
			′		25 N max.			
					25 N max.			
			5) No da					
			0) 110 dc	amago, oraono o	riocconcoo or parto.			
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93	3 % at a	1) Voltage proof : 500 V DC applied for 1 min.				-	
•	temperature of 40°C during 21 days.		Curre	X				
			No bre	eakdown. 🖄				
			2) Resis					
			Cont					
				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	r looseness of parts.			
Note QT:Qualification Te	est AT:Assurance Test X:Applicable Test	Di	L RAWIN	IG NO.	ELC-129989-	<u></u> 01-0	0	
	DECISION CLIEFT		T NO. IX40G-A-10S-CVL2(7					
—		1 1 717 1	110.	1/400	,-/ U.O-O V LZ(/.	\cup \cap \cup \cup	')	
	ROSE ELECTRIC CO., LTD.	CODE	- N/O	CL 005	51-0077-0-01	<u>^</u>	2/3	

	SPECIFICATIO		T	Т
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL	. CHARACTERISTICS			
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 \pm 3 °C, 10 days. (mating applicable connector)	 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) 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	_
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 Q	:Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129989-01-00		
R	SPECIFICATION SHEET	PART NO.	IX40G	-A-10S-CVL2(7	7.0)(01)	
11	HIROSE ELECTRIC CO., LTD.	CODE NO	CL025	1-0077-0-01	<u> 2</u> 3/3	