APPLICA	BLE STAN	IDARD	IEC 61076-3-124								
RATING	Operating Temperature Range Voltage		-40°C to +85°C(95%RH (note1,2)	Range		empera	ature	-30°C to +60°C(95%RH max (note1)		ıx)	
KATING			50.7/40./00.7/50		C	Current			1.5 A/pin (all pin)		
			30 V AC / 60 V BC						3 A/pin (pin No.1,2,6,	7)	
			SPECI	IFICA	TION	S					1
l I	EM		TEST METHOD				F	REQU	IREMENTS	QT	АТ
CONSTR	RUCTION										
General Exam	ination	Examined	visually and with a measuring ins	strument.	Ac	According to drawing.				Х	Х
Marking		Confirmed	l visually.		Ac	According to drawing.				Χ	Χ
ELECTR	IC CHARA	CTERI	STICS								,
Contact Resis	tance	Measured at 100 mA max (DC or 1000 Hz).				Contact : 30 m $\Omega$ max. (note3) Shield : 100 m $\Omega$ max. (note3)				Х	_
Insulation Res	istance	Measured at 500 V DC.			50	00 MΩ n	nin.			Х	_
Voltage Proof		500 V DC	500 V DC applied for 1 min. Current leakage 2mA max.			break	down.	2		Х	_
Insertion Loss		Measured	easured 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 t 30 dB, the requirement shall revert to 30 dB.)			•	х		
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			Х	_	
Far end cross	alk	Measured in the range of 1 to 500 MHz.			83 (W	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		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.)				Х	_
Transverse Conversion Transfer 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.)				Х	_
MECHAN	ICAL CHAF	RACTER	ISTICS			42,	o roquii.				
Insertion and \			m rate of 50 mm/min.			sertion f	force al force		N max.	Х	_
			by applicable connector.		4)	D i - t -					
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	_	
		Rest: 5s,	st : 5s, min.(unmated)			2) No damage, cracks or looseness of parts.					
3. The cable	conductor resis	ance is not	mperature includes the temperatuconsidered.  to the contacts and shield excep	•							
COUN	T D	ESCRIPTI	ON OF REVISIONS		DESIGNE	ED			CHECKED	DA	ΛTE
<u>/</u> 2 7		DIS-	E-00016077		MT.YASU	DA			KI.KAGOTANI	2024	0419
REMARK						CI	PPROV	ED	MN.KENJO KI.NAGANUMA	2019	1209
Unless otherwise specified,			efer to IEC 60512	to IEC 60512.		DESIG DRAI					1209
			surance Test X:Applicable Te	est	DRA	RAWING NO. ELC-129988		ELC-129988-0	-01-00		
ЖS	S	PECIF	CATION SHEET					-B-10S-CVL1(7.0			
11.0	HIF	ROSE E	LECTRIC CO., LTD.		CODE N	10.	Cl	.025	51-0076-0-01	<u>^</u>	1/3

	SPECIFICA	ATIO	NS					
ITEM	TEST METHOD			REQU	IREMENTS		QT	АТ
Vibration ,sinusoidal	Frequency 10 to 500 Hz 0.35 mm, 50 m/s <sup>2</sup>			1) No electrical discontinuity of 1µs. (note4) 2) No damage, cracks or looseness of parts.			Х	_
Fretting Corrosion	2hrs in each of 3 mutually perpendicular axis.  490 m/s², 30 times/min at 1000 times.		1) No el	ectrical discontir	nuity of 1µs. (note4)			
				amage, cracks o	r looseness of parts.		Х	_
Mechanical Shock	of 11 milliseconds duration, 3 shocks in both directions of 3 mutually perpendicular directions (totally 18 shocks)			<ol> <li>No electrical discontinuity of 1μs. (note4)</li> <li>Resistance:         Contact: 80 mΩ max. (note4)         Shield: 100 mΩ max. (note4)</li> <li>No damage, cracks or looseness of parts.</li> </ol>				_
Effectiveness of the connector coupling device	Applying 80 N force 60 s for the mating axis direction in state in fitted with applicable connector.			No unlocking, damage, cracks or looseness of parts.				_
Locking device mechanical operations	10000 cycles 20 cycles/min max		Insertion and Withdrawal Forces     Insertion force 25 N max.     Withdrawal force 25 N max.  2) No damage, cracks or looseness of parts.				Х	_
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.				_
ENVIRONMENTAL	CHARACTERISTICS							
Rapid Change of Temperature	Subject mated specimens to 10 cycles between -55° 85°C with 30 minutes dwell at temp. extremes and 2 minutes transition between temperatures.		Currel No bro 2) Resis Cont Shie 3) Insula	oltage proof : 500 V DC applied for 1 min.  urrent leakage 2mA max.  o breakdown. Δ  tesistance:  Contact : 80 mΩ max. (note3)  Shield : 100 mΩ max. (note3)  nsulation resistance: 500 MΩ min. (at dry)  to 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) 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	_
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93 % at a temperature of 40°C during 21 days.		1) Voltage proof: 500 V DC applied for 1 min.  Current leakage 2mA max.  No breakdown. 2  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		
Note QT:Qualification Te	st AT:Assurance Test X:Applicable Test	DI	DRAWING NO. ELC-129988-			988-0	1-0	0
<b>HS</b> s	PECIFICATION SHEET	PART	NO.	IX40G	-B-10S-CVI		<u>,                                     </u>	
	OSE ELECTRIC CO., LTD.	CODE	DE NO   CL0251-0076-0-01   Z				<u> 2</u>	2/3

	SPECIFICATIO	110		
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
ENVIRONMENTAL	CHARACTERISTICS			
Dry Heat	Subject to +85 ± 2 °C, 21 days.	1) Voltage proof : 500 V DC applied for 1 min.	X	_
	(mating applicable connector)	Current leakage 2mA max.		
		No breakdown.		
		2) Resistance:		
		Contact : 80 mΩ max. (note3)		
		Shield : 100 mΩ max. (note3)		
		3) Insulation resistance: 500 M $\Omega$ 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.		
Cold	Subject to -55 ± 3 °C, 10 days.	1) Voltage proof : 500 V DC applied for 1 min.	X	-
	(mating applicable connector)	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.		
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h.	No heavy corrosion of contacts.	X	_
	(leave under unmated condition.)	,		
Mixed Flowing Gas Corrosion	Test temperature: +25±1 °C, Relative humidity: 75±3 %	1) Resistance:	Х	_
	H <sub>2</sub> S: 10±5 ppb, NO <sub>2</sub> : 200±50 ppb	Contact : 80 mΩ max. (note3)		
	Cl <sub>2</sub> : 10±5 ppb, SO <sub>2</sub> : 200±20 ppb	Shield : 100 mΩ max. (note3)		
	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)			
Solderability	Temperature +350 $\pm$ 10 °C, 3 sec at soldering parts.	<ol> <li>Wetting on solder surface.</li> <li>No solder cluster.</li> </ol>	X	_
Resistance To	Temperature +350 ± 10 °C, 5 sec at soldering parts.	No damage, cracks or looseness of parts.	1,	
Soldering Heat			X	-

Note Q1	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129988-01-00		
R	SPECIFICATION SHEET	PART NO.	IX40G-B-10S-CVL1(7.0)(01			1)
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL025	1-0076-0-01	<u> </u>	3/3