APPLICA	BLE STAN	DARD	IEC 61076-3-124								
Doting	Operating Temperature Range		-40°C to +85°C(95%RH max) (note1,2)		Storage Temperature Range			-30°C to +60°C(95%RH max) note1)			
Rating	Voltage				Current		1.5 A/pin (all pin)				
Volta		50 V AC / 60 V DC		Ouriei	Current		3 A/pin (pin No.1,2,6	6,7)			
			SPECIF	ICATIO	NS						
IT	EM		TEST METHOD			R	EQU	REMENTS	QT	АТ	
CONSTR	UCTION				•				•		
General Examination		Examined visually and with a measuring instrument.			Accordi	According to drawing.			Х	Х	
Marking		Confirmed	visually.		Accordi	ng to dra	wing.		Х	Х	
ELECTR	IC CHARA	CTERIS	STICS								
Contact Resistance		Measured at 100 mA max (DC or 1000 Hz).				Contact : $30 \text{ m}\Omega$ max. (note3) Shield : $100 \text{ m}\Omega$ max. (note3)			Х	_	
Insulation Resistance		Measured at 500 V DC.			500 MΩ	500 MΩ min.			Х	_	
Voltage Proof		500 V DC applied for 1 min. Current leakage 2mA max.			No brea	No breakdown.			Х	_	
Insertion Loss		Measured in the range of 1 to 500 MHz.			(Whene	<ul> <li>0.02 √(f) dB max.</li> <li>(Whenever the formula results in a value less than 0.1 dB, the requirement shall revert to 0.1 dB.)</li> </ul>			X	_	
Return Loss		Measured in the range of 1 to 500 MHz.			(Whene	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 Crosstalk		Measured in the range of 1 to 500 MHz.			46.04 – (Whene	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			X	_	
Far and crosst	alk	Measured in the range of 1 to 500 MHz.				75 dB, the requirement shall revert to 75 dB.) 83.1 – 20log(f) dB min.				-	
Far end crosstalk		and the factor of the same in			(Whene	(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.			(Whene	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.			(Whene	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 CHAR	ACTER	ISTICS		100 000,						
Insertion and Withdrawal Forces		A maximum rate of 50 mm/min.				Insertion force 25 N max. Withdrawal force 25 N max.			X	<u> </u>	
		Measured by applicable connector.			1) Posis	1) Resistance:				-	
Mechanical Operation		5000 times insertions and extractions.  Mating speed: 10 mm/s max.			Contac	Contact : $80 \text{ m}\Omega$ max. (note3) Shield : $100 \text{ m}\Omega$ max. (note3)			X	-	
		Rest : 5s, min.(unmated)				2) No damage, cracks or looseness of parts.					
3. The cable	conductor resista	ance is not o	mperature includes the temperature considered.  to the contacts and shield except for	•							
COUN	IT DESC	CRIPTIC	N OF REVISIONS	S DESIG		GNED		CHECKED	DA	TE	
<u>^</u> 7		DIS-E	E-00014713	MT.YA	ASUDA			KI.KAGOTANI	2024	0119	
REMARK					_	APPROVED		MN.KENJO	2019	1209	
					DESIGNED DESIGNED		KI.NAGANUMA	2019			
Unless oth	nerwise spe	cified, re	efer to IEC 60512.			ESIGN DRAW		MT.YASUDA YK.MITSUISHI	2019 2019		
	•		surance Test X:Applicable Test		DRAWIN			ELC-129981-0			
ЖS		SPECIF	ICATION SHEET	T NO.							
11/2	HIR	OSE EI	LECTRIC CO., LTD.	COD	E NO.	NO. CLO		251-0069-0-01		1/3	

	SPECIFIC/	ATIOI	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 <sup>2</sup>		2) No damage, cracks or looseness of parts.			Χ	_	
	2hrs in each of 3 mutually perpendicular axis.							
Fretting Corrosion	490 m/s <sup>2</sup> , 30 times/min at 1000 times.		1) No electrical discontinuity of 1µs. (note4)			V		
			2) No da	amage, cracks o	r looseness of parts.		Χ	
Mechanical Shock	Subject mated specimens to 300 m/s² half-sine shoot	ck pulses	1) No el	1) No electrical discontinuity of 1µs. (note4)				
	of 11 milliseconds duration, 3 shocks in both direction	no of 2	2) Resistance:			Х	_	
	mutually perpendicular directions (totally 18 shocks)		Cont	act : 80 mΩ max	c. (note4)			
			Shield : 100 mΩ max. (note4)					
			3) No da	amage, cracks o	r looseness of parts.			
Effectiveness of the connector	r Applying 90 N force 60 c for the mating axis direction	n in state	No unlo	cking damage	aracks or loosonoss o	f parte		
coupling device	Applying 80 N force 60 s for the mating axis direction in state in fitted with applicable connector.			cking, damage,	cracks or looseness o	i parts.	Χ	_
Locking device mechanical	10000 cycles			ion and Withdra	wal Forces			
operations	20 cycles/min max		Insertion force 25 N max.				Χ	_
	20 Gyolos/min max			Withdrawal force 25 N max.				
			2) No da	amage, cracks o	r looseness of parts.			
Mranahina Ctronath								
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on ti case in state in fitted with applicable connector.	p or plug	No dama	age, cracks or ic	ooseness of parts.		Χ	_
FNVIRONMENTAI	_ CHARACTERISTICS							1
Rapid Change of Temperatur		C and	1) \/olto	go proof : 500 V	DC applied for 1 min			
Rapid Change of Temperatur	Subject mated specimens to 10 cycles between -55°C and 85°C with 30 minutes dwell at temp. extremes and 2 to 3		Voltage proof : 500 V DC applied for 1 min.     Current leakage 2mA max.				Χ	
	minutes transition between temperatures.			nit leakage ziliA eakdown.	IIIax.	<u>^</u>		
			2) Resis					
			•	act : 80 mΩ ma:	c. (note3)			
				ld : 100 mΩ m				
			3) Insulation resistance: 500 MΩ min. (at dry)					
			-		r looseness of parts.			
			,	3-,	, , , , , , , , , , , , , , , , , , , ,			
Humidity / Temperature	Low temperature 25 °C;		1) Voltag	ge proof : 500 V	DC applied for 1 min.		Χ	_
Cycling	High temperature 65 °C;			Current leakage 2mA max.				
	Cold sub-cycle – 10 °C;		No bre	eakdown.		$\triangle$		
	Relative humidity 93 % Duration 10 / each 24 h			2) Resistance: Contact : 80 m $\Omega$ max. (note3)				
	(IEC 60068-2-38,test Z / AD)		Shield : 100 mΩ max. (note3)					
	,			3) Insulation resistance: 500 M $\Omega$ min. (at dry)				
			4) Insert	ion and Withdra	wal Forces			
			Inser	rtion force 2	25 N max.			
			With	drawal force	25 N max.			
			5) No da	amage, cracks o	r looseness of parts.			
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.			_	Χ	-
	temperature of 40 G during 21 days.		Current leakage 2mA max.					
				eakdown.				
				2) Resistance: Contact: 80 mΩ max. (note3) Shield: 100 mΩ max. (note3)				
			Shield: 100 mΩ max. (note3)  3) Insulation resistance: 500 MΩ min. (at dry)  4) Insertion and Withdrawal Forces					
			Insertion and Withdrawal Forces     Insertion force					
				Withdrawal force 25 N max.  5) No damage, cracks or looseness of parts.				
			5, 110 uc					
Note QT:Qualification To	t AT:Assurance Test X:Applicable Test D		RAWING NO. ELC-129981-(		81-01	<b>-00</b>	)	
HS S	PECIFICATION SHEET PA		T NO. IX31G-A-10S-CVL2 (7. (		(7. 0)	(01)	)	
	POSE ELECTRIC CO. LTD.		01.0054.0000.0.04					
	ROSE ELECTRIC CO., LTD.	CODE	NO	CI 025	1-0069-0-01	/	2 2	2/3

ITEM	SPECIFICAT			_	
	TEST METHOD	REQ	UIREMENTS	QT	A <sup>-</sup>
<u>ENVIRONMENTA</u>	L CHARACTERISTICS			-	ı
Dry Heat	Subject to +85 $\pm$ 2 °C, 21 days. (mating applicable connector)	<ol> <li>Voltage proof: 500° Current leakage 2m/No breakdown.</li> <li>Resistance: Contact: 80 mΩ m: Shield: 100 mΩ r</li> <li>Insulation resistance</li> <li>Insertion and Withdinsertion force</li> <li>Withdrawal force</li> <li>No damage, cracks</li> </ol>	ax. (note3) nax. (note3) ε: 500 MΩ min. (at dry) awal Forces 25 N max.	X	
Cold	Subject to -55 ± 3 °C, 10 days.  (mating applicable connector)	Current leakage 2m/No breakdown.  2) Resistance: Contact: 80 mΩ m Shield: 100 mΩ n 3) Insulation resistance 4) Insertion and Withdi	ax. (note3) nax. (note3) ε: 500 MΩ min. (at dry) awal Forces 25 N max.	X	_
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h.  (leave under unmated condition.)	No heavy corrosion o	contacts.	Х	-
Mixed Flowing Gas Corrosio	Test temperature: $+25\pm1$ °C, Relative humidity: $75\pm$ H <sub>2</sub> S: $10\pm5$ ppb, NO <sub>2</sub> : $200\pm50$ ppb Cl <sub>2</sub> : $10\pm5$ ppb, SO <sub>2</sub> : $200\pm20$ 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 m  Shield: 100 mΩ r  2) No damage, cracks	nax. (note3)	X	_
Note QT:Qualification 1	rest AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC-129981-0	01-00	)
	DECISION TION OF IEEE		ELC-129981-( G-A-10S-CVL2 (7. 0		

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