APPLICA	ABLE STA	NDARD	IEC 61076-3-124							
RATING	Operating Te Range	mperature	-40°C to +85°C(95%RF (note1,2)	H max)	Storage Temperature Range		-30° (note	0°C to +60°C(95%RH max) ote1)		
NATINO	Vol	tage	50 V AC / 60 V D0	~	с	urrent		1.5 A/pin (all pin)	_,	
ŭ					3 A/pin (pin No.1,2,6,			7)		
			SPEC	IFICA		S				
	TEM		TEST METHOD				REQL	JIREMENTS	QT	AT
	RUCTION									
General Exar	nination					According to drawing.			X	X
		Confirmed			Ac	ccording to dra	awing.		Х	Х
	CHAR			<u>\</u>		Contact : 30 m	() may	(note3)	V	1
Contact Resis	stance	weasured	at 100 mA max (DC or 1000 Hz)).		Shield : 100 r			Х	_
Insulation Re	sistance	Measured	Measured at 500 V DC.			500 MΩ min.				—
Voltage Proof		500 V DC	500 V DC applied for 1 min. Current leakage 2mA max.			o breakdown.	Δ		Х	_
Insertion Loss		Measured	Measured in the range of 1 to 500 MHz.			0.02 $\sqrt{(f)}$ 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.				
Near end Crosstalk			Measured in the range of 1 to 500 MHz.			(Whenever the formula results in a value greater than 30 dB, the requirement shall revert to 30 dB.)			Х	_
		Measured				94 – 20log(f) dB min. (1MHz to 250MHz) 46.04 – 30log(f/250) dB min. (250MHz to 500MHz)			V	
						(Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)			X	_
Far end cross	stalk	Measured	Measured in the range of 1 to 500 MHz.			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 Me		Measured	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	_
Transverse Conversion M Transfer 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 50 dB, the requirement shall revert to 50 dB.)			x	_
MECHAN	IICAL CHA	RACTER	ISTICS		00	, ab, the requi	Ternent			
Insertion and			m rate of 50 mm/min.		Ins	sertion force	25	N max.	Х	_
Forces			Measured by applicable connector.			Withdrawal force 25 N max.				
Mechanical Operation		5000 time	5000 times insertions and extractions. Mating speed : 10 mm/s max. Rest : 5s, min.(unmated)			1) Resistance: Contact : 80 m Ω max. (note3) Shield : 100 m Ω max. (note3) 2) No damage, cracks or looseness of parts.			х	
										_
3. The cable	conductor resi	e operation tel stance is not o	mperature includes the temperat						1	1
COUN	I TI	DESCRIPTI	ON OF REVISIONS		DESIGN	ED		CHECKED		TE
2 7		DIS-	E-00016077		MT.YASU	T.YASUDA		KI.KAGOTANI	2024	0419
REMARK			APPRO		MN.KENJO	2019				
				CHECKE		KI.NAGANUMA MT.YASUDA	2019120			
Unless otherwise specified, refer to IEC 60		efer to IEC 60512.			DRAWN		YK.MITSUISHI	20191209		
	ner mee op					-				^
Note QT:C		est AT:As	surance Test X:Applicable Te	est	DRA	WING NO		ELC-129987-0	1-00	U
Note QT:C	Qualification T		surance Test X:Applicable T	est	DRA PART N			ELC-129987-0 A-10S-CVL1(7.0		

		SPECIFICA		10			<u> </u>	1
ITEN	N	TEST METHOD			REQL	IIREMENTS	QT	A
Vibration ,sinusoidal		Frequency 10 to 500 Hz		1) No electrical discontinuity of 1µs. (note4)				
		0.35 mm, 50 m/s²			2) No damage, cracks or looseness of parts.			-
		2hrs in each of 3 mutually perpendicular axis.						
Fretting Corrosio	า	490 m/s ² , 30 times/min at 1000 times.			1) No electrical discontinuity of $1\mu s$. (note4)			
					2) No damage, cracks or looseness of parts.			
Mechanical Shock		Subject mated specimens to 300 m/s ² half-sine shocl	k pulses	1) No electrical discontinuity of 1µs. (note4)				
		of 11 million and duration. O shapks in both directions of 0			2) Resistance: Contact : 80 mΩ max. (note4)			
				3) No da	amage, cracks c	r looseness of parts.		
Effectiveness of t coupling device	he connector	Applying 80 N force 60 s for the mating axis direction	in state	No unioo	cking, damage,	cracks or looseness of parts.	Х	-
		in fitted with applicable connector.		4 \ lase and	:			-
Locking device mechanical operations		10000 cycles 20 cycles/min max			1) Insertion and Withdrawal Forces Insertion force 25 N max.			
							Х	
						25 N max.		
				2) No da	image, cracks c	r looseness of parts.		
Wrenching Streng	gth	Applying 25times of 30 N 1s for 2 axis direction on tip	o of plug	No dama	age, cracks or le	poseness of parts.	х	-
	45.17.1	case in state in fitted with applicable connector.						I
ENVIRON	MENTAL	CHARACTERISTICS					1	-
Rapid Change of Temperature					1) Voltage proof : 500 V DC applied for 1 min.			
		85°C with 30 minutes dwell at temp. extremes and 2 to 3 minutes transition between temperatures.			nt leakage 2mA	max.	Х	-
					eakdown. <u>⁄</u>			
					tance:			
				Cont	act : 80 m Ω ma	x. (note3)		
					d : 100 mΩ m	ax. (note3)		
					tion resistance:	500 M Ω min. (at dry)		
				4) No da	amage, cracks c	r looseness of parts.		
Humidity / Tempe	erature	Low temperature 25 °C;				DC applied for 1 min.	Х	-
Cycling		High temperature 65 °C; Cold sub-cycle – 10 °C; Relative humidity 93 % Duration 10 / each 24 h (IEC 60068-2-38,test Z / AD)			nt leakage 2mA	max.		
					eakdown.			
					tance:			
					act : 80 mΩ ma	x. (note3)		
					ld : 100 mΩ m	ax. (note3)		
				,		500 M Ω min. (at dry)		
				'	ion and Withdra			
						25 N max.		
						25 N max.		
				5) No da	amage, cracks c	r 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.				DC applied for 1 min.	Х	-
					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)			
				-				
					ion and Withdra	awal Forces 25 N max.		
					Insertion force 25 N max. Withdrawal force 25 N max.			
				5) No da	amage, cracks c	r looseness of parts.		
Note QT:Qua	lification Tes	st AT:Assurance Test X:Applicable Test	DF	RAWIN	IG NO.	ELC-129987-0)1-0	0
		PECIFICATION SHEET	PART	RT NO. IX40G-A-10S-CVL1(7.0)(01				
								<u> </u>
		OSE ELECTRIC CO., LTD.	CODE	- N/O		51-0075-0-01	2	2/

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	SPECIFICAT			DEMENTO	0.7	۲ ۸
			KEQUI	REMENTS	QT	A
	CHARACTERISTICS	I				T
Dry Heat	Subject to +85 \pm 2 °C, 21 days.			DC applied for 1 min.	X	_
	(mating applicable connector)		urrent leakage 2mA r	nax.		
			o breakdown. 🔬			
		,	esistance:	(()		
			Contact : 80 m Ω max			
			Shield : 100 mΩ ma			
		,		500 MΩ min. (at dry)		
		,	sertion and Withdrav			
				5 N max.		
				5 N max.		
		5) N	o damage, cracks or	looseness of parts.		
Cold	Subject to -55 \pm 3 °C, 10 days.	1) V(oltage proof : 500 V I	DC applied for 1 min.	X	
	(mating applicable connector)		urrent leakage 2mA r		^	
	(mating applicable connector)		o breakdown. 🖄	Πα λ .		
			esistance:			
		,	Contact : 80 m Ω max	. (note3)		
			Shield : 100 m Ω ma			
			sulation resistance:			
			sertion and Withdrav			
		'		5 N max.		
		v	Vithdrawal force 2	5 N max.		
			o damage, cracks or			
Corrosion Salt Mist	Subject to 5 % salt water, 35 \pm 2 °C, 48h.	No	heavy corrosion of c	ontacts.	X	-
Mixed Flowing Gas Corrosion	(leave under unmated condition.)					
wixed Flowing Gas Corrosion	Test temperature : +25±1 °C, Relative humidity : 75±	,	esistance:	(()	X	_
	$H_2S: 10\pm 5 \text{ ppb}, NO_2: 200\pm 50 \text{ ppb}$		Contact : 80 m Ω max			
	Cl ₂ : 10±5 ppb, SO ₂ : 200±20 ppb		Shield : 100 mΩ ma o damage, cracks or			
	Leave the samples for 4 days with mated.	_,	e damage, eraene er			
	The same is performed with unmated samples. (IEC 60512, method 4)					
Solderability	Temperature +350 ± 10 °C, 3 sec at soldering parts.		/etting on solder surf	ace.	Х	-
		2) N	o solder cluster.			
Resistance To	Temperature +350 \pm 10 °C, 5 sec at soldering parts.	No d	lamage, cracks or loo	oseness of parts.	V	
Soldering Heat					Х	
	st AT:Assurance Test X:Applicable Test			ELC-12998		
		DRAV PART NC		ELC-12998 -A-10S-CVL1(7.0)(01	