APPLICABLE STANDARD			IEC 61076-3-124								
D .:	Operating Temperature Range				Storage T Range	. ا		-30°C to +60°C(95%RH max) (note1)			
Rating	Voltage				C	urrent			1.5 A/pin (all pin)		
	Volta	ge	50 V AC / 60 V D	)C		unent			3 A/pin (pin No.1,2,6	5,7)	
			SPEC	IFICA <sup>-</sup>	TION	S					
IT	EM		TEST METHOD			REQUIREMENTS			QT	АТ	
CONSTR	RUCTION	1			I					1	
General Examination		Examined	Examined visually and with a measuring instrument.			According to drawing.				Х	Х
Marking		Confirmed	visually.		Ac	ccording t	to drawi	ing.		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.			50	00 MΩ mi	in.			Χ	-
Voltage Proof		500 V DC applied for 1 min. Current leakage 2mA max.			k. No	o breakdo	own.		<u>6</u>	Х	_
Insertion Loss		Measured in the range of 1 to 500 MHz.			(W	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 in the range of 1 to 500 MHz.			(W	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.			94 46 (W	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 end crosst	alk	Measured	in the range of 1 to 500 MHz.		83 (W	3.1 – 20lo Vhenever	og(f) dB	min. mula i	shall revert to 75 dB.) results in a value greater thar	X	_
Transverse Conversion Loss		Measured in the range of 1 to 500 MHz.			68 (W	75 dB, the requirement shall revert to 75 dB.)  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.			(V	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	ICAL CHAR	ACTER	ISTICS		I		<u> </u>		·	1	
Insertion and Withdrawal Forces		A maximum rate of 50 mm/min.				Insertion force 25 N max. Withdrawal force 25 N max.				Х	-
Mechanical Operation		Measured by applicable connector.  5000 times insertions and extractions.			'	1) Resistance: Contact : 80 mΩ max. (note3)					
		Mating speed : 10 mm/s max. Rest : 5s, min.(unmated)			s	Shield : 100 mΩ max. (note3)  2) No damage, cracks or looseness of parts.			X		
3. The cable	conductor resista	operation ter	mperature includes the temperat		current car	rying					
COUN	COUNT DESCRIPTION OF REVISIONS DESI		ESIGN	GNED			CHECKED		λΤΕ		
<u>6</u> 7		DIS-E-00014488 MT.YA			/IT.YASU	SUDA KI.KAGOTANI			2023	3122	
REMARK							ROV ECKE		RI.TAKAYASU KI.NAGANUMA		7032 <u>4</u> 70324
							SIGNI		HT.SATO		7032
Unless oth	nerwise spe	cified, re	efer to IEC 60512.			DF	1WAS	V	HT.SATO		7032
Note QT:Q	ualification Te	st AT:As	surance Test X:Applicable Te	est	DRA	WING	NO.		ELC-129419-0	0-0	0
ĸ		SPECIF	FICATION SHEET P		PART N	T NO. IX30G-A-10S-CV (7		30G-A-10S-CV (7. 0	)		
	HIR	OSE EI	LECTRIC CO., LTD.		CODE N	10.	CL	025	1-0020-0-00	<u>6</u>	1/3

	SPECIFIC/	1OITA	NS					
ITEM	TEST METHOD			REQU	IREMENTS		QT	АТ
Vibration ,sinusoidal	Frequency 10 to 500 Hz  0.35 mm, 50 m/s <sup>2</sup>		-		nuity of 1µs. (note4) r looseness of parts.		Х	_
Fretting Corrosion	2hrs in each of 3 mutually perpendicular axis.  490 m/s², 30 times/min at 1000 times.		-		nuity of 1µs. (note4) r looseness of parts.		Х	_
Mechanical Shock	Subject mated specimens to 300 m/s² half-sine short of 11 milliseconds duration, 3 shocks in both direction mutually perpendicular directions (totally 18 shocks)	ons of 3	2) Resis Cont Shiel	tance: act : $80~\text{m}\Omega$ max $100~\text{m}\Omega$ max			х	_
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	cking, damage, o	cracks or looseness o	f parts.	Х	-
Locking device mechanical operations	10000 cycles 20 cycles/min max		Inser With	drawal force 2	wal Forces 25 N max. 25 N max. r looseness of parts.		Х	_
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on ti case in state in fitted with applicable connector.	p of plug	No dam	age, cracks or lo	ooseness of parts.		Х	_
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.	to 3	Currel No bro 2) Resis Cont Shiel 3) Insula	nt leakage 2mA eakdown. tance: act : 80 m $\Omega$ maxid : 100 m $\Omega$ maxid or resistance:	k. (note3)		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 bre 2) Resis Cont Shiel 3) Insula 4) Insert Inser With	Int leakage 2mA eakdown. tance: act : $80 \text{ m}\Omega$ maxidor resistance: ion and Withdra tion force 2 drawal force 2	κ. (note3) ax. (note3) 500 MΩ min. (at dry)		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) 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.			Х	_	
			3) Insula 4) Insert Inser With	Id: $100 \text{ m}\Omega$ matter resistance: ion and Withdratton force 2 drawal force 2	ax. (note3) 500 MΩ min. (at dry) wal Forces 25 N max. 25 N max.			
Note QT:Qualification Te	st AT:Assurance Test X:Applicable Test		3) Insula 4) Insert Inser With 5) No da	Id: $100 \text{ m}\Omega$ matter resistance: ion and Withdratton force 2 drawal force 2	ax. (note3) 500 MΩ min. (at dry) wal Forces 25 N max. 25 N max.	19-0	0-00	)
	st AT:Assurance Test X:Applicable Test PECIFICATION SHEET		3) Insula 4) Insert Inser With 5) No da	id: 100 mΩ mation resistance: ion and Withdration force 2 drawal force 2 amage, cracks o	ax. (note3) 500 MΩ min. (at dry) wal Forces 25 N max. 25 N max. r looseness of parts.			)

ITEM TO THE TOTAL OF THE TOTAL				
NVIRONMENTAL (	TEST METHOD	REQUIREMENTS	QT	Α
	CHARACTERISTICS			
ry 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)	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	_
Forrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h.  (leave under unmated condition.)	No heavy corrosion of contacts.	X	-
lixed Flowing Gas Corrosion	Test temperature: $+25\pm1$ °C, Relative humidity: $75\pm3$ 9 $H_2S$ : $10\pm5$ 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)	<ul> <li>1) Resistance:         Contact: 80 mΩ max. (note3)         Shield: 100 mΩ max. (note3)</li> <li>2) No damage, cracks or looseness of parts.</li> </ul>	X	-

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