APPLICA	BLI	E STAN	DARD	IEC 61076-3-124								
	Оре	erating Temp		Stora			ge Temperature				may)	
Range				-40°C TO +80°C(95%RH max)			Range		-30	30°C TO +60°C(95%RH m 1.5 A (all pins)		
										Values at 20 °C		
Rating		Volta	ge	50 V AC / 60 V D	С	(	Cur	rent				
									3.0 A (pin No.1, 2, 6 an			
									Values at 40 ℃			
			_	SPEC	IFICA	<u> 101T.</u>	<b>NS</b>	<u> </u>			1	
IT	ΕM	l	TEST METHOD				REQUIREMENTS				QT	АТ
CONSTR	UC	CTION										
General Examination			Examined visually and with a measuring instrument.				According to drawing.				Х	Χ
Marking			Confirmed visually.				According to drawing.				Х	Х
ELECTRI	C	CHARA	CTERIS	STICS								
Contact Resist	ance	9	Measured at 100 mA max (DC or 1000 Hz).				con	ntact : 30 mΩ	max.		Х	_
							shield : 100 mΩ max.					
Insulation Resistance			Measured at 500 V DC.				500 MΩ min.				X	_
Voltage Proof			500 V DC applied for 1 min. Current leakage 2mA max.				No flashover or breakdown.				X	_
Insertion loss			Measured in the range of 1 to 500 MHz.				0.02 √(f) dB max.					
							(Wehnever the fomula 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.			6	68 – 20log(f) dB min.					
							(Wehnever the fomula results in a value greater than				Х	-
Near end cross	talk		Measured in the range of 1 to 500 MHz.				30 dB, the requirement shall revert to 30 dB.)  94 – 20log(f) dB min. (1MHz to 250MHz)					
inear end cross	otain		Measureu	in the range of 1 to 500 Minz.			,					_
							(Wehnever the fomula results in a value greater than				X	
							75 dB, the requirement shall revert to 75 dB.)					
Far end crosst	alk		Measured in the range of 1 to 500 MHz.				83.1 – 20log(f) dB min. (Wehnever the fomula 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.			6	68 – 20log(f) dB min.					
							(Wehnever the fomula results in a value greater than				Х	_
Transverse co	nver	eion	Managed in the course of 4 to 500 MHz				50 dB, the requirement shall revert to 50 dB.)  68 – 20log(f) dB min.					
Transverse conversion transfer loss			Measured in the range of 1 to 500 MHz.				(Wehnever the fomula results in a value greater than				X	
							50 dB, the requirement shall revert to 50 dB.)					
MECHANI	CA	L CHAR	ACTERI	STICS								
Insertion And Withdrawal			A maximum rate of 50 mm/min.				Insertion force 25 N max.				Х	-
Forces			measured by applicable connector.				Withdrawal force 25 N max.					
Mechanical Op	erat	ion	5000 times insertions and extractions.				1) Resistance:					
							contact : $80 \text{ m}\Omega$ max. shield : $100 \text{ m}\Omega$ max.				X	_
			mating speed: 10 mm/s max. rest: 5s, min.(unmated)				2) No damage, cracks or looseness of parts.					
Vibration			Frequency 10 to 500 Hz				1) No electrical discontinuity of 1μs.					1
			0.35 mm, 50 m/s <sup>2</sup>				2) No damage, cracks or looseness of parts.				Х	_
			2hrs in each of 3 mutually perpendicular axis.									
COUN	IT	DESC	CRIPTIO	N OF REVISIONS		DESIG	NE	D		CHECKED	DA	TE
<u></u>												
Note						APPROV CHECK DESIGN			RI.TAKAYASU	UMA 17.01.31 DA 17.01.31		
									KI.NAGANUMA			
									YS.SAKODA			
Unless otherwise specified, re							DRAWN		/N	YS.SAKODA 1		1.31
				AT:Assurance Test D			RAWING NO.			TELC-301077-00		
X:Applicable Test  SPECIFICATION			ATION SHEET			PART NO.		1	IX40-A-10S-CV(6.4			
HQ.						CODE			251			1/2
						CODE			201			

	SPECIFICA	ATIO	NS				
ITEM	TEST METHOD			REQU	IREMENTS	QT	АТ
Fretting Corrosion	490 m/s <sup>2</sup> , 30 times/min at 1000 times.			ectrical discontin	nuity of 1µs.		
_			2) No da	amage, cracks o	r looseness of parts.	Х	_
Shock	Subject mated specimens to 300 m/s <sup>2</sup> half-sine shock pulses of 11 milliseconds duration, 3 shocks in both directions of 3 mutually perpendicular directions (totally 18 shocks)			1) No electrical discontinuity of 1µs. 2) No damage, cracks or looseness of parts.			
Lock Strength	Applying 80 N force for the mating axis direction in state in fitted with applicable connector.			No unlocking, damage, cracks or looseness of parts.			
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 1 transition between temperatures.		Curre No fla 2) Resis conta shiel 3)Insula	Int leakage 2mA ishover or breakd stance: act : $80 \text{ m}\Omega$ max id : $100 \text{ m}\Omega$ max ition resistance: $\frac{1}{2}$	ax. 500 MΩ min. (at dry)	X	
	_	4) No damage, cracks or looseness of parts.					
Humidity / temperature cycling	low temperature 25 °C; high temperature 65 °C; cold sub-cycle — 10 °C; rerative humidity 93 % duration 10 / each 24 h (IEC 60068-2-38,test Z / AD)		shiel 2)Insula	act : $80~\text{m}\Omega$ max ld : $100~\text{m}\Omega$ matrion resistance: $8$		X	_
Damp heat, steady state	Subject mated specimens to a relative humidity of 93 % at a temperature of 40°C during 21 days.			<ol> <li>Resistance:         contact: 80 mΩ max.         shield : 100 mΩ max.</li> <li>Insulation resistance: 500 MΩ min. (at dry)</li> <li>No damage, cracks or looseness of parts.</li> </ol>			
Dry Heat	Subject to +85 ± 2 °C, 21 days. (mating applicable connector)		shiel 2)Insula	act : $80 \text{ m}\Omega$ max ld : $100 \text{ m}\Omega$ matrition resistance: $9000000000000000000000000000000000000$		X	_
Cold	Subject to -55 ± 3 °C, 10 days.  (mating applicable connector)	1) Resistance: contact: 80 mΩ max. shield : 100 mΩ max. 2)Insulation resistance: 500 MΩ min. (at dry) 3) No damage, cracks or looseness of parts.				_	
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h.  (left under unmated condition.)			No heavy corrosion of contacts.			
Mixed flowing gas corrosion	Test temperature: $\pm 25\pm 1$ °C, Relative humidity: $\pm 75\pm 3$ % H <sub>2</sub> S: $\pm 100\pm 20$ ppb, NO <sub>2</sub> : $\pm 200\pm 50$ ppb Cl <sub>2</sub> : $\pm 100\pm 5$ ppb, SO <sub>2</sub> : $\pm 200\pm 20$ ppb Duration: $\pm 4$ days, half mated half unmated (IEC 60512, method 4)			1) Resistance: contact: 80 mΩ max. shield: 100 mΩ max. 2) No damage, cracks or looseness of parts.			
Solderbility	Soldering point immersed in solder bath of +235 ± 5 °C,5 sec. (using type r flax)			Solder shall cover minimum of 95 % of The surface being immersed.			
Resistance To Soldering Heat	Temperature +350 ± 10 °C,5 sec at soldering parts.		No damage, cracks or looseness of parts.				_
Note QT:Qualification Tes	t AT:Assurance Test X:Applicable Test	DI	DRAWING NO. TELC-301077-00				
HS SF	HC SPECIFICATION SHEET F			IX	(40-A-10S-CV (6. 4)		
	OSE ELECTRIC CO., LTD.	CODE	E NO		251	<u></u>	2/2