APPLICA	BLE STAN	DARD	IEC 61076-3-124						
DATING	Operating Tem Range	perature	-40°C to +85°C(95%RH max) (note1,2)	Storag	e Temperature	-30°C to +60°C(95%RH ma (note1)	x)		
RATING	Volta	90			Current	1.5 A/pin (all pin)			
	Volta	.ge	50 V AC / 60 V DC		Current	3 A/pin (pin No.1,2,6,7	7)		
			SPECIFICA	TIO	NS				
ITEM			TEST METHOD			REQUIREMENTS			
CONSTR	RUCTION								
General Exam	ination	Examined visually and with a measuring instrument.			According to dra	wing.	Χ	Х	
Marking		Confirmed	visually.		According to dra	wing.	Χ	Χ	
ELECTR	IC CHARA	CTERIS	STICS						
Contact Resist	tance	Measured at 100 mA max (DC or 1000 Hz).				Contact : 30 m Ω max. (note3) Shield : 100 m Ω max. (note3)			
Insulation Res	istance	Measured at 500 V DC.			500 M Ω min.	, ,			
Voltage Proof		500 V DC applied for 1 min. Current leakage 2mA max.			No flashover or breakdown.			_	
Insertion Loss		Measured	Measured 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.)			
Return Loss		Measured in the range of 1 to 500 MHz.			68 – 20log(f) dB min. (Whenever the formula results in a value greater than 30 dB, the requirement shall revert to 30 dB.)			_	
Near end Cros	stalk	Measured	in the range of 1 to 500 MHz.		46.04 – 30log(f/2 (Whenever the fo	min. (1MHz to 250MHz) 250) dB min. (250MHz to 500MHz) ormula results in a value greater than rement shall revert to 75 dB.)	х	_	
Far end crosst	alk	Measured	in the range of 1 to 500 MHz.		83.1 – 20log(f) d (Whenever the fo		х	_	
Transverse Conversion Loss		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.)			_	
Transverse Conversion Transfer Loss		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.)			_	
MECHAN	ICAL CHAF	RACTERI	ISTICS						
Insertion and Withdrawal Forces			A maximum rate of 50 mm/min. Measured by applicable connector.		Insertion force 25 N max. Withdrawal force 25 N max.			_	
Mechanical Operation		5000 times	000 times insertions and extractions. lating speed: 10 mm/s max.			Ω max. (note3) nΩ max. (note3)	Х	_	
			min.(unmated)		2) No damage, c	eracks or looseness of parts.			
Note									

INO

- 1. Non-condensing. 2. The operation temperature includes the temperature rise by current carrying
- 3. The cable conductor resistance is not considered.
- 4. Electrical characteristics are applicable to the contacts and shield except for contacts No. 3 and 8.

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED		D		CHECKED	DATE
$\sqrt{2}$	18	DIS-E-00003730		MT.YASUD	Α		KI.KAGOTANI	20210317
REMARK				APPRO\	APPROVED RI.TAKA		20180730	
					CHECK	ED	KI.NAGANUMA	20180727
					DESIGNED		JY.IGA	20180727
Un	Unless otherwise specified, refer to IEC 60512.				DRAWN		JY.IGA	20180727
Note	Note QT:Qualification Test AT:Assurance Test X:Applicable Test		est	DRAV	DRAWING NO.		ELC-129795-01-00	
1	RS -	SPECIFICATION SHEET	·	PART NO	NO. IX32G-A-8S-CV(7.0)(0		(01)	
		HIROSE ELECTRIC CO., LTD.		CODE NO	D. CI	L025	51-0042-0-01	<u>2</u> 1/3

	SPECIFICA	OITA	NS					
ITEM	TEST METHOD			REQUIREMENTS	QT	A		
Vibration ,sinusoidal	Frequency 10 to 500 Hz	Frequency 10 to 500 Hz						
	0.35 mm, 50 m/s ²	2	2) No da	2) No damage, cracks or looseness of parts.				
	2hrs in each of 3 mutually perpendicular axis.				X			
Fretting Corrosion	490 m/s^2 , $30 \text{ times/min at } 1000 \text{ times}$.	<u> </u>	1) No el	\ \ \				
		743	2) No da	amage, cracks or looseness of parts.	X			
Mechanical Shock	Subject mated specimens to 300 m/s² half-sine shock		1) No el	ectrical discontinuity of 1µs. (note4)	Х			
	of 11 milliseconds duration, 3 shocks in both direction	2) Resis	2) Resistance:					
	mutually perpendicular directions (totally 18 shocks)			act : 80 m Ω max. (note4)				
				ld : 100 mΩ max. (note4)				
			3) No da	amage, cracks or looseness of parts.				
Effectiveness of the connect	or Applying 80 N force for the mating axis direction in st	ate in	No unlo	cking, damage, cracks or looseness of parts.	Х	_		
coupling device	fitted with applicable connector.				ļ ,`			
Locking device mechanical	10000 cycles		l '	tion and Withdrawal Forces rtion force 25 N max.	X	_		
operations	20 cycles/min max							
			With					
			2) No da	amage, cracks or looseness of parts.				
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on tip	of plug	No dam	age, cracks or looseness of parts.	Х	-		
	case in state in fitted with applicable connector. L CHARACTERISTICS		<u> </u>			<u> </u>		
		0	4) 1/ "			1		
Rapid Change of Temperatu	re Subject mated specimens to 10 cycles between -55°0 85°C with 30 minutes dwell at temp. extremes and 2		ge proof: 500 V DC applied for 1 min.	Х	_			
	minutes transition between temperatures.			Current leakage 2mA max. No flashover or breakdown.				
			2) Resis	stance: eact : 80 m Ω max. (note3)				
		<u> </u>		ld : 100 mΩ max. (note3)				
			ation resistance: 500 MΩ min. (at dry)					
			amage, cracks or looseness of parts.					
				,				
Humidity / Temperature	Low temperature 25 °C;	<u> </u>	1) Volta	ge proof : 500 V DC applied for 1 min.	Х	-		
Cycling	High temperature 65 °C;			nt leakage 2mA max.				
	Cold sub-cycle - 10 °C;	No fla						
	Relative humidity 93 %	2) Resis	stance:					
	Duration 10 / each 24 h	Cont	$act: 80 \ m\Omega \ max. \ (note3)$					
	(IEC 60068-2-38,test Z / AD)		Shie	ld : 100 m Ω max. (note3)				
			3) Insula	ation resistance: 500 M Ω min. (at dry)				
			· '	tion and Withdrawal Forces				
				rtion force 25 N max. drawal force 25 N max.				
		With						
			5) No da	amage, cracks or looseness of parts.				
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93	1) Volta	ge proof : 500 V DC applied for 1 min.	Х	<u> </u>			
,, ,	temperature of 40°C during 21 days.	Curre						
		<u>/2\</u>		shover or breakdown.				
			2) Resis	stance:				
			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.						
		Inser						
		Withdrawal force 25 N max.						
			(5) No da	amage, cracks or looseness of parts.				
				IG NO. ELC-129795-)1-N	0		
Note QT:Qualification 7	est AT:Assurance Test X:Applicable Test	ח	HAWIN			v		
	est AT:Assurance Test X:Applicable Test					_		
	est AT:Assurance Test X:Applicable Test SPECIFICATION SHEET	PART		IX32G-A-8S-CV(7.0)	(01)	2/:		

ENVIRONMENTAL CHARACTERISTICS Dry Heat Subject to 45 ± 2°C, 21 days. (maiting applicable connector) Subject to 45 ± 2°C, 21 days. (maiting applicable connector) Subject to 45 ± 3°C, 10 days. (maiting applicable connector) Subject to 56 ± 3°C,		SPECIFIC	<u> </u>	140				T	1
Subject to -85 ± 2 °C, 24 days. (maling applicable connector) Subject to -85 ± 2 °C, 24 days. (maling applicable connector) Silved ± 100 mm max. (mote3) Silved ± 100 mm max. (m	ITEM	TEST METHOD		<u> </u>	REQU	IREMENTS		QT	Α
(mating applicable connector) (mating applicable connector) (Current leakage 2m A max. No flashover or breakdown. 2) Resistance: Contact : 50 mt max. (note3) 3) Insulation resistance: 500 Mth min. (at dry) 4) Insention and Whothward Insulation Insulation (Insulation Insulation In								1	1
Subject to -55 ± 3 °C, 10 days. (mating applicable connector) Subject to -55 ± 3 °C, 10 days. Current leakage 2m A max. No flashover or breakdown. Resistance: Contact: 80 mΩ max. (note3) Shield: 100 mΩ max. (note3) Insertion and Withdrawal Forces insertion force 25 M max. Withdrawal force 25 M max. Shield: 100 mΩ max. (note3) Shield: 100 mΩ	огу Неат		<u> </u>	Currer No flas 2) Resis Conta Shiel 3) Insula 4) Insert Inser	In the leakage 2 mA shover or break tance: act: $80 \text{ m}\Omega$ maximum attion resistance: ion and Withdra tion force 2	max. down. c. (note3) ax. (note3) 500 MΩ min. (at own wal Forces 55 N max.		X	_
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. Withdrawal force 25 N max. Withdrawal force 25 N max. No fearinge, cracks or looseness of parts. Corrosion Salt Mist Subject to 5 % salt water, 35 ± 2 °C, 48h. (leave under unmated condition.) The temperature: 25±1 °C, Relative humidity: 75±3 % H₂S: 10±5 ppb, NO₂: 200±50 ppb C₂s: 10±5 ppb, SO₂: 200±50 ppb Leave the samples for 4 days with mated. The same is performed with unmated samples. (IEC 60512, method 4) Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC-129795-01-0 SPECIFICATION SHEET PART NO. IX32G-A-8S-CV(7.0)(01)	Cold	·	<u> </u>	1) Voltag	ge proof : 500 V	DC applied for 1		X	_
(leave under unmated condition.) Test temperature: +25±1 °C, Relative humidity: 75±3 % Hs: 10±5 ppb, No: 200±50 ppb Ciz: 10±5 ppb, No: 200±50 ppb Leave the samples for 4 days with mated. The same is performed with unmated samples. (IEC 60512, method 4) Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC-129795-01-0 SPECIFICATION SHEET PART NO. IX32G-A-8S-CV(7.0)(01)				No flas 2) Resis Conta Shiel 3) Insula 4) Insert Insert Witho	shover or break tance: $\arctan : 80 \text{ m}\Omega \text{ max}$ $d : 100 \text{ m}\Omega \text{ max}$ $tition resistance: \arctan M \text{ Withdra} tition force \qquad 2 tition force \qquad 2 tition force \qquad 2$	down. c. (note3) ax. (note3) 500 MΩ min. (at of the wal Forces 25 N max.			
Has: 10±5 ppb, NO: 200±50 ppb Clz: 10±5 ppb, SO: 200±20 ppb Leave the samples for 4 days with mated. The same is performed with unmated samples. (IEC 60512, method 4) Note QT:Qualification Test AT:Assurance Test X:Applicable Test PART NO. IX32G-A-8S-CV(7.0)(01)	Corrosion Salt Mist			No hea	vy corrosion of	contacts.		Х	-
RS SPECIFICATION SHEET PART NO. IX32G-A-8S-CV(7.0)(01)	Mixed Flowing Gas Corro	$H_2S:10\pm 5$ ppb, $NO_2:200\pm 50$ ppb $Cl_2:10\pm 5$ ppb, $SO_2:200\pm 20$ ppb Leave the samples for 4 days with mated. The same is performed with unmated samples.	^	Conta	act: $80 \text{ m}\Omega$ max d : $100 \text{ m}\Omega$ max	ax. (note3)	rts.	X	
SPECIFICATION SHEET PART NO. IX32G-A-8S-CV(7.0)(01)									
SPECIFICATION SHEET PART NO. IX32G-A-8S-CV(7.0)(01)				D A LA (III)	10.110	El 0.40	20705	01.0	_
1,024,735 3.(1.3)(0.1)	Note QT:Qualification			DRAWING NO. ELG-129/9				U	
HIROSE ELECTRIC CO., LTD. CODE NO CL0251-0042-0-01	HS								3/3