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Voltage 50 V AC / 60 V DC Current 3 A/pin (pin No.1,2,6,7	QT A
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(Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)	x -
Transverse Conversion Measured in the range of 1 to 500 MHz. 68 – 20log(f) dB min.	x -
Transfer Loss (Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)	x -
MECHANICAL CHARACTERISTICS	
	X -
Measured by applicable connector. Mechanical Operation 5000 times insertions and extractions. 1) Resistance:	
Contact : 80 mΩ max. (note3)	x -
Mating speed: 10 mm/s max. Rest: 5s, min.(unmated) Snield: 100 mt2 max. (note3) 2) No damage, cracks or looseness of parts.	
Note 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 CHECKED	DATE
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Unless otherwise specified, refer to IEC 60512. Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC-129485-00-	017032 _ሰበ
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HIROSE ELECTRIC CO., LTD. CODE NO. CL0251-0023-0-00 E	1/3

	SPECIFIC/	OITA	NS					
ITEM	TEST METHOD			REQUIREMENTS			QT	АТ
Vibration ,sinusoidal	Frequency 10 to 500 Hz 0.35 mm, 50 m/s ² 2hrs in each of 3 mutually perpendicular axis.		 No electrical discontinuity of 1μs. (note4) No damage, cracks or looseness of parts. 			Х	_	
Fretting Corrosion	490 m/s ² , 30 times/min at 1000 times.		1) No electrical discontinuity of 1µs. (note4) 2) No damage, cracks or looseness of parts.				Х	_
Mechanical Shock	Subject mated specimens to 300 m/s² half-sine shoot of 11 milliseconds duration, 3 shocks in both direction mutually perpendicular directions (totally 18 shocks)	ons of 3	 No electrical discontinuity of 1μs. (note4) Resistance: Contact: 80 mΩ max. (note4) Shield: 100 mΩ max. (note4) No damage, cracks or looseness of parts. 			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 of	f parts.	Х	_
Locking device mechanical operations	10000 cycles 20 cycles/min max		Insertion and Withdrawal Forces Insertion force 25 N max. Withdrawal force 25 N max. No damage, cracks or looseness of parts.			Х	_	
Wrenching Strength	Applying 25times of 30 N 1s for 2 axis direction on ticase in state in fitted with applicable connector.	ip of plug	No damage, cracks or looseness of parts.			Х	_	
ENVIRONMENTAL	CHARACTERISTICS							
Rapid Change of Temperature	Subject mated specimens to 10 cycles between -55°C and 85°C with 30 minutes dwell at temp. extremes and 2 to 3 minutes transition between temperatures.		Curre No bro 2) Resis Cont	nt leakage 2mA eakdown. tance: act : 80 mΩ max	c. (note3)	Â	X	_
			3) Insula 4) No da	amage, cracks o	500 M Ω min. (at dry) looseness of parts.			
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)		 Voltage proof: 500 V DC applied for 1 In Current leakage 2mA max. No breakdown. Resistance: Contact: 80 mΩ max. (note3) Shield: 100 mΩ max. (note3) Insulation resistance: 500 MΩ min. (at of the context of the		max. c. (note3) ax. (note3) 500 MΩ min. (at dry) wal Forces 5 N max.	Â	X	
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 9stemperature 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.		X			
Note QT:Qualification Tes	st AT:Assurance Test X:Applicable Test	DF	RAWIN	IG NO.	ELC-1294	85-0	0-00)
HS SI	PECIFICATION SHEET	PART	NO.	IX	31G-A-10S-C\			
	OSE ELECTRIC CO., LTD.	CODE NO		CL025	1-0023-0-00		<u>^</u> 5\	2/3

	SPECIFICATIO	INO		
ITEM TEST METHOD		REQUIREMENTS	QT	AT
ENVIRONMENTAL	. CHARACTERISTICS			
Dry 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 ± 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	
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h. (leave under unmated condition.)	No heavy corrosion of contacts.	Х	_
Mixed Flowing Gas Corrosion	,	1) Resistance: Contact : 80 mΩ max. (note3) Shield : 100 mΩ max. (note3) 2) No damage, cracks or looseness of parts.	X	_

Note QT:0	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129485-00-00		
HS	SPECIFICATION SHEET	PART NO.	IX31G-A-10S-CV (7. 0)			
11/0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL025	1-0023-0-00	<u>\$</u>	3/3