APPLICA	BLE STAN	DARD	IEC 61076-3-124							
Rating	Operating Temperature Range		-40°C TO +85°C(95%RH r	max)	Storage Temperature Range		-30°			
realing	Voltage		50 V AC / 60 V D	С	Curre			1.5 A/pin (all pin) 3 A/pin (pin No.1,2,6,7)		
			SPECI	FICA	TION	S		5 74 piii (piii 140. 1,2,	<i>J</i> , <i>r</i>)	
IT	EM		TEST METHOD	11 107			REOU	IREMENTS	QT	АТ
CONSTR			TEGT METHOD				REGO	II CENTER TO	α.	1,
General Exam		Examined	visually and with a measuring in	strument.	Ac	cording t	o drawing.		Х	Х
Marking						According to drawing.			X	X
ELECTR	IC CHARA	CTERIS	STICS		I					
Contact Resistance		Measured at 100 mA max (DC or 1000 Hz).				Contact : 30 m Ω max. Shield : 100 m Ω max.			X	_
Insulation Resistance		Measured at 500 V DC.			50	500 MΩ min.			Х	
Voltage Proof		500 V DC applied for 1 min. Current leakage 2mA max.			x. No	No flashover or breakdown.			Χ	_
Insertion Loss		Measured in the range of 1 to 500 MHz.			0.0	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.				68 – 20log(f) dB min. (Whenever the formula results in a value greater than			X	_
					30	30 dB, the requirement shall revert to 30 dB.)				
Near end Crosstalk						94 – 20log(f) dB min. (1MHz to 250MHz)				
					(W	46.04 – 30log(f/250) dB min. (250MHz to 500MHz) (Whenever the formula results in a value greater than 75 dB, the requirement shall revert to 75 dB.)			X	_
Far end Crosstalk						83.1 – 20log(f) dB min.				
					,	(Whenever the formula 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.				68 – 20log(f) dB min.				
					1 -	(Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				_
Transverse Conversion		Measured in the range of 1 to 500 MHz.			68	68 – 20log(f) dB min.				
Transfer Loss					1 -	(Whenever the formula results in a value greater than 50 dB, the requirement shall revert to 50 dB.)				_
MECHANI	CAL CHAP	ACTER	STICS						1	
Insertion And \	Vithdrawal	A maximur	naximum rate of 50 mm/min.			Insertion force 25 N max. Withdrawal force 25 N max.			Х	-
Forces		Measured	asured by applicable connector.			withdrawai force 25 N max.				
Mechanical Op	peration		000 times insertions and extractions.			1) Resistance: Contact : 80 mΩ max.				
		Mating speed : 10 mm/s max. Rest : 5s, min.(unmated)				Shield : 100 m Ω max.				_
		Nest: 35, min.(unimateu)			2)	2) No damage, cracks or looseness of parts.				
Vibration		1 -	/ 10 to 500 Hz			 No electrical discontinuity of 1μs. No damage, cracks or looseness of parts. 				
		0.35 mm, 5							Х	_
COUN	IT DES		ch of 3 mutually perpendicular ax		DESIGN	בח טערטערט		CHECKED	D /	TE.
	II DES		-00001391		DESIGNED CHECKED JY.IGA KI.NAGANUMA		KI.NAGANUMA		3.09	
A 3 Note		ם-כום	1 601 0000		J 1.1GF	_	 ROVED	RI.TAKAYASU		3.24
	n-condens	ing. $\sqrt{2}$	\			-	ECKED	KI.NAGANUMA		3.24
			<u> </u>			DESIGNED DRAWN		HT.SATO	17.03.	
Unless otherwise specified, re								HT.SATO	17.03.2	
Note QT:Q	ualification Te	st AT:Ass	surance Test X:Applicable Te	est	DRA	WING	NO.	ELC-129487-0	0-00)
HS.		SPECIFICATION SHEET			PART N	NO.		X30G-B-10S-CV (7. 0)		
	HIR	OSE EI	ECTRIC CO., LTD.		CODE N	10.	CL251	1-0025-0-00	\triangle	1/2

	SPECIFICATIO	NS		
ITEM	TEST METHOD	REQUIREMENTS	QT	АТ
Fretting Corrosion	490 m/s ² , 30 times/min at 1000 times.	1) No electrical discontinuity of 1µs.		
		2) No damage, cracks or looseness of parts.	Х	_
Shock	Subject mated specimens to 300 m/s ² half-sine shock pulses of 11 milliseconds duration, 3 shocks in both directions of 3 mutually perpendicular directions (totally 18 shocks)	 No electrical discontinuity of 1µs. 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.	Х	_
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.	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 1 minute transition between temperatures.	1) Voltage proof: 500 V DC applied for 1 min. Current leakage 2mA max. No flashover or breakdown. 2) Resistance:	Х	_
		Contact : 80 mΩ max. Shield : 100 mΩ max. 3) Insulation resistance: 500 MΩ min. (at dry) 4) No damage, cracks or 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)	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.	Х	_
Damp Heat, Steady State	Subject mated specimens to a relative humidity of 93 % at a temperature of 40°C during 21 days.	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.	Х	_
Dry Heat	Subject to +85 ± 2 °C, 21 days. (mating applicable connector)	 Resistance: Contact: 80 mΩ max. Shield : 100 mΩ max. Insulation resistance: 500 MΩ min. (at dry) No damage, cracks or looseness of parts. 	Х	_
Cold	Subject to -55 ± 3 °C, 10 days. (mating applicable connector)	 Resistance: Contact: 80 mΩ max. Shield : 100 mΩ max. Insulation resistance: 500 MΩ min. (at dry) No damage, cracks or looseness of parts. 	Х	_
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h. (left under unmated condition.)	No heavy corrosion of contacts.	Х	
Mixed Flowing Gas Corrosion	Test temperature : $+25\pm1$ °C, Relative humidity : 75 ± 3 % H_2S : 100 ± 20 ppb, NO_2 : 200 ± 50 ppb CI_2 : 10 ± 5 ppb, SO_2 : 200 ± 20 ppb Duration : 4 days, half mated half unmated (IEC 60512, method 4)	1) Resistance: Contact : $80 \text{ m}\Omega$ max. Shield : $100 \text{ m}\Omega$ max. 2) No damage, cracks or looseness of parts.	Х	_

Note QT:C	Qualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-129487-00-00		
HS	SPECIFICATION SHEET	PART NO.	IX30G-B-10S-CV (7. 0)			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL251	-0025-0-00	<u>^</u>	2/2