APPLICA	BLE STAN	DARD	IEC 61076-3-124. Transmission	performance is i	refer to IEC 11801-1 Clas	ss Ea	. 🔨
	Operating Temperature Range		-40°C to +85°C(95%RH max)(note1,2)	Storage Temperature Range	-30°C to +60°C(95%RH max)	(note1	1)
RATING	V-11		F0.V.AC./60.V.DC	Current	1.5 A/pin (all pin)		
	Volta	ge	50 V AC / 60 V DC		3 A/pin (pin No.1,2,6,7)		
			SPECIFICATI	ONS			
דו	ГЕМ		TEST METHOD	R	EQUIREMENTS	QT	АТ
CONSTR	RUCTION						
General Exam	ination	Examined visually and with a measuring instrument.		According to drawi	According to drawing.		
Marking		Confirmed	visually.	According to drawing.			Χ
ELECTR	IC CHARA	CTERIS	STICS				
Contact Resistance		Measured at 100 mA max (DC or 1000 Hz).			Contact : 30 mΩ max. (note3)		
		_		Shield : 100 mg	Shield : 100 mΩ max. (note3)		
Insulation Resistance		Measured at 500 V DC.		500 M $\Omega$ min.	500 MΩ min.		
Voltage Proof		500 V DC applied for 1 min. Current leakage 2mA max.		No breakdown.			_
MECHAN	ICAL CHAR	ACTER	ISTICS				
Insertion and Withdrawal A		A maximum rate of 50 mm/min.		Insertion force 25 N max.		Х	_
Forces		Measured by applicable connector.		Withdrawal force	Withdrawal force 25 N max.		
		5000 times insertions and extractions.		1) Resistance:			
				Contact : 80 mΩ i	Contact : $80 \text{ m}\Omega$ max. (note3) Shield : $100 \text{ m}\Omega$ max. (note3)		
		Mating speed : 10 mm/s max.		Shield : 100 mΩ			
		Rest : 5s, i	min.(unmated)	2) No damage, cracks or looseness of parts.			
Note		•					
1. Non-conde	ensing. 2. The o	peration ter	mperature includes the temperature rise by curr	rent carrying			
4							

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED			CHECKED	DATE
$\triangle$	7	DIS-E-00011749	HY.MATS	HY.MATSUDA		KI.KAGOTANI	20221201
REI	MARK			AF	PPROVED	MN.KENJO	20210817
				С	HECKED	KI.KAGOTANI	20210817
				D	ESIGNED	TS.ITO	20210812
Unless otherwise specified, refer to IEC 60512.					DRAWN	TS.ITO	20210812
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRA	DRAWING NO.		ELC-395607-00-00	
1	RS	SPECIFICATION SHEET PA		ART NO.		IX40G-A-10P-JC(7.0)	
	יט	HIROSE ELECTRIC CO., LTD.	CODE N	IO.	CL02	51-0109-0-00	1/3

3. The cable conductor resistance is not considered.

 $4. \ Electrical\ characteristics\ are\ applicable\ to\ the\ contacts\ and\ shield\ except\ for\ contacts\ No.\ 3\ and\ 8.$ 

	SPECIFIC <i>A</i>	1OIT	NS				
ITEM	TEST METHOD			REQU	IREMENTS	QT	АТ
Vibration ,sinusoidal	equency 10 to 500 Hz 85 mm, 50 m/s <sup>2</sup> rs in each of 3 mutually perpendicular axis.		1) No electrical discontinuity of 1µs. (note4) 2) No damage, cracks or looseness of parts.			x	_
Fretting Corrosion	490 m/s <sup>2</sup> , 30 times/min at 1000 times.		<ol> <li>No electrical discontinuity of 1μs. (note4)</li> <li>No damage, cracks or looseness of parts.</li> </ol>			х	_
Mechanical Shock	of 11 milliseconds duration, 3 shocks in both directions of 3 mutually perpendicular directions (totally 18 shocks)		<ol> <li>No electrical discontinuity of 1μs. (note4)</li> <li>Resistance:         Contact : 80 mΩ max. (note4)         Shield : 100 mΩ max. (note4)</li> <li>No damage, cracks or looseness of parts.</li> </ol>			X	_
Effectiveness of the connector coupling device	Applying 80 N force for the mating axis direction in sifitted with applicable connector for 60 s.	tate in	No unloc	cking, damage, o	cracks or looseness of part	s. X	
Locking device mechanical operations	10000 cycles 20 cycles/min max		Insertion and Withdrawal Forces     Insertion force		X	_	
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 bre 2) Resist Conta Shiel 3) Insula	titleakage 2mA eakdown. $\triangle$ tance: act : 80 m $\Omega$ mad titlon resistance:	c. (note3)	X	_
Humidity / Temperature Cycling	cow temperature 25 °C; digh temperature 65 °C; Cold sub-cycle — 10 °C; Relative humidity 93 % Duration 10 / each 24 h IEC 60068-2-38,test Z / AD)		<ol> <li>Voltage proof: 500 V DC applied for 1 min.         Current leakage 2mA max.         No breakdown.</li></ol>		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>Voltage proof: 500 V DC applied for 1 min.         Current leakage 2mA max.         No breakdown.</li></ol>		X	_	
Note QT:Qualification Te	st AT:Assurance Test X:Applicable Test	DR	RAWIN	IG NO.	ELC-395607	-00-0	0
HS s	PECIFICATION SHEET	PART	T NO. IX40G-A-10P-JC(7		'.0)		

ITEM	TEST METHOD	DECLUDEMENTS	OT	АТ
	TEST METHOD	REQUIREMENTS	QT	AI
	CHARACTERISTICS	I		1
Dry Heat	Subject to +85 ± 2 °C, 21 days.	1) Voltage proof: 500 V DC applied for 1 min.	X	_
	(mating applicable connector)	Current leakage 2mA max.		
		No breakdown.		
		2) Resistance:		
		Contact : 80 mΩ max. (note3)		
		Shield : 100 mΩ max. (note3)		
		3) Insulation resistance: 500 M $\Omega$ 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.		
Cold	Subject to -55 ± 3 °C, 10 days.	1) Voltage proof : 500 V DC applied for 1 min.	X	_
	(mating applicable connector)	Current leakage 2mA max.		
	( 5.11 )	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.		
Corrosion Salt Mist	Subject to 5 % salt water, 35 ± 2 °C, 48h.	No heavy corrosion of contacts.	X	
	(leave under unmated condition.)	,		
Mixed Flowing Gas Corrosion	Test temperature: +25±1 °C, Relative humidity: 75±3 %	1) Resistance:	Х	_
	H <sub>2</sub> S: 10±5 ppb, NO <sub>2</sub> : 200±50 ppb	Contact : 80 mΩ max. (note3)		
	Cl <sub>2</sub> : 10±5 ppb, SO <sub>2</sub> : 200±20 ppb	Shield : 100 mΩ max. (note3)		
	Leave the samples for 4 days with mated.	2) No damage, cracks or looseness of parts.		
	The same is performed with unmated samples. (IEC 60512, method 4)			
Solderability	Temperature +350 ± 10 °C, 3 sec at soldering parts.	Wetting on solder surface.     No solder cluster.	Х	_
Resistance To	Temperature +350 ± 10 °C, 5 sec at soldering parts.	No damage, cracks or looseness of parts.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Soldering Heat			X	-

Note QT:Q	tualification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-395607-00-00		
HS.	SPECIFICATION SHEET	PART NO.	IX4	7.0)		
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO	CL025	1-0109-0-00	3/3	