Rating		<u> </u>	TÜV approved(R50270424)						
Rating	Operating te		-40°C to +10		storage tem	perature	-10°C to +60°	,C	
Rating	range ⁽²⁾				ange				
	Voltage		AC, DC 600 V(UL,TÜV)		_	-	—		
	Current ⁽¹⁾	$\overline{22}$	AC, DC 1000V 20A (UL, TÜV) A		pplicable c	ahla	φ10.1±0.6		
			20A (OL, TOV) 24A(Ambient temperatu		opplicable c	cable $\varphi 10.1 \pm 0.6$			
	I			-					
		<u> </u>		CIFICATIO	CNIV C	6-21		07	
			TEST METHOD			REQU	JIREMENTS	QT	AT
CONSTRU General Exa		Examiner	d visually and with a measur	rina instrument	t Accord	ing to the drav	wina	X	X
Marking	mination	Confirmed		ing motion			wing.	X	X
ELECTR	ICAL CHA		-					-	
Contact Resi	istance	Measured at DC 1A. MAX.				Center contact 2 m MAX.			Х
Insulation Resistance		Measured at 500 V DC.				5000 MΩ MIN.			Х
Voltage Proof		4260 V AC applied for 1 min.			No flas	No flashover or breakdown.			Х
		Apply 15kV standard waveform (1.2/50µs voltage waveform. positive/negative polarities,3 times each)							_
Impulse voltage	e proof		 positive/negative polarities each contact in mated condition 		i) INO flas	hover or brea	Kdown.	х	
MECHANIC	CAL CHARA			lion.					
Contact Inse		1		nauge	Insertio	n and extract	ion force 0.8 N MIN.	<u> </u>	1
Extraction Fo	prces 3	Measured with a ϕ 3.58±0.003 steel gauge.							<u> </u>
Mating and L	Jnmating	Measured with an applicable connector.			Mating	and unmating	g force 100 N MAX.	х	_
Forces	ation forms				-+ D :			<u> </u>	\vdash
Contact reter	ntion force	Apply pull force to the wire after crimping connected contact.			ct. Do not n	Do not move the terminal : 50N MAX.			_
Mechanical C	Operation	Mated and unmated 200 times.			Contac	Contact resistance: $4 \text{ m}\Omega \text{ MAX}$.			
Vibration		Frequency: $10 \rightarrow 500 \rightarrow 10$ Hz, Single Amplitude			e 1) No e	 No electrical discontinuity of more than10µs. 			<u> </u>
		0.75 mm,	Acceleration: 98 m/s ² ,11mi	n/cycle, for 3 h			s or looseness of parts.	х	-
			f three mutually perpedicula					_	
Shock		Acceleration: 490m/s ² , half sine wave pulses of 11ms.			2 No d	 No electrical discontinuity of more than10µs. No damage, cracks or looseness of parts. 			_
			3 times in each of three mutual	y perpendicular	2) 110 0	anage, oraor		х	
	MENTAL CH	directions.							
		1	Ire $-55 \rightarrow \text{R/T}^{(3)} \rightarrow +125 \rightarrow \text{R/T}$	°C	1) insula	tion resistance		T	
Rapid change of temperature			Time $30 \rightarrow 2$ to $3 \rightarrow 30 \rightarrow 2$ to 3 min under 5 cycles.			 insulation resistance: 5000 MΩ MIN. No damage, crack and looseness of parts. 			-
Damp heat			Subjected to 40° C, at a humidity of 90 to 95% for 96h.			1) Insulation resistance: 50 MΩ MIN			1
(Steady state)						(At high humidity).2) Insulation resistance: 500 MΩ MIN (At dry).			-
		_			3) No d	lamage, crack	and looseness of parts.		
Corrosion salt	mist ⁽⁴⁾	Subjected	to 5% salt spray for 1000h.				c and looseness of parts.	×	
	mist ⁽⁴⁾	-			No heav	y corrosion whi	ch impairs functionality.	x	_
Sealing ⁽⁴⁾	mist ⁽⁴⁾	-	to 5% salt spray for 1000h. to a depth of 2m for 14 days.		No heav	y corrosion whi	· · · · · · · · · · · · · · · · · · ·	x x	_
	mist ⁽⁴⁾	Subjected 1 17.6 kPa o	to a depth of 2m for 14 days. f air pressure applied to the insi	de of the mated	No heav No wate No air bi	y corrosion whi r penetration in ubbles emitted	ch impairs functionality.		
Sealing ⁽⁴⁾	mist ⁽⁴⁾	Subjected	to a depth of 2m for 14 days. f air pressure applied to the insi	de of the mated	No heav	y corrosion whi r penetration in ubbles emitted	ch impairs functionality. to the connector.	х	_
Sealing ⁽⁴⁾	mist ⁽⁴⁾	Subjected 1 17.6 kPa o	to a depth of 2m for 14 days. f air pressure applied to the insi	de of the mated	No heav No wate No air bi	y corrosion whi r penetration in ubbles emitted	ch impairs functionality. to the connector.	х	_
Sealing ⁽⁴⁾ Air tightness ⁽⁴⁾		Subjected f 17.6 kPa or connector f	to a depth of 2m for 14 days. f air pressure applied to the insi for 30s.		No heav No wate No air bi connecte	y corrosion whi r penetration in ubbles emitted	ch impairs functionality. to the connector. from the inside of the	x x	_
Sealing ⁽⁴⁾ Air tightness ⁽⁴⁾ COUN		Subjected 1 17.6 kPa o connector f	to a depth of 2m for 14 days. f air pressure applied to the insi for 30s. DN OF REVISIONS	DES	No heav No wate No air bu connecto SIGNED	y corrosion whi r penetration in ubbles emitted	ch impairs functionality. to the connector. from the inside of the CHECKED	X X DA	
Sealing ⁽⁴⁾ Air tightness ⁽⁴⁾		Subjected 1 17.6 kPa o connector f	to a depth of 2m for 14 days. f air pressure applied to the insi for 30s.	DES	No heav No wate No air bi connecte	y corrosion whi r penetration in ubbles emitted	ch impairs functionality. to the connector. from the inside of the CHECKED HY.KOBAYASHI	X X DA 2020	- -
Sealing ⁽⁴⁾ Air tightness ⁽⁴⁾	T D	Subjected in 17.6 kPa o connector in ESCRIPTIC DIS-C	to a depth of 2m for 14 days. f air pressure applied to the insider for 30s. DN OF REVISIONS C-00003790	DES HT.	No heav No wate No air bu connecto SIGNED	y corrosion whi r penetration in ubbles emitted to or.	ch impairs functionality. to the connector. from the inside of the CHECKED	X X DA	
Sealing ⁽⁴⁾ Air tightness ⁽⁴⁾ COUN COUN A REMARK	T D	Subjected for a connector for	to a depth of 2m for 14 days. f air pressure applied to the insi for 30s. DN OF REVISIONS	DES HT.	No heav No wate No air bu connecto SIGNED	y corrosion whi r penetration in ubbles emitted pr. APPROVED	ch impairs functionality. to the connector. from the inside of the CHECKED HY.KOBAYASHI SU.OBARA	X X DA 2020 2013	
Sealing ⁽⁴⁾ Air tightness ⁽⁴⁾ COUN COUN A REMARK Notes (1) Ab cri	T Di 3 ove specificatio imp contacts. (A	Subjected to 17.6 kPa or connector to ESCRIPTIC DIS-Cons shows the pplicable crim	to a depth of 2m for 14 days. f air pressure applied to the insi- for 30s. DN OF REVISIONS C-00003790	DES HT.	No heav No wate No air bu connecto SIGNED	y corrosion whi r penetration in ubbles emitted or. APPROVED CHECKED	ch impairs functionality. to the connector. from the inside of the CHECKED HY.KOBAYASHI SU.OBARA HY.KOBAYASHI	X X DA 2020 2013 2013	
Sealing ⁽⁴⁾ Air tightness ⁽⁴⁾ COUN A REMARK Notes (1) Ab cri (2) Inc	T Di 3 ove specificatio imp contacts. (A	Subjected to 17.6 kPa of connector to ESCRIPTIC DIS-C	to a depth of 2m for 14 days. f air pressure applied to the insi- for 30s. DN OF REVISIONS C-00003790 e values in assembled condition mp contact:HR41-SC-111)	DES HT.	No heav No wate No air bu connecto SIGNED	y corrosion whi r penetration in ubbles emitted or. APPROVED CHECKED	ch impairs functionality. to the connector. from the inside of the CHECKED HY.KOBAYASHI SU.OBARA HY.KOBAYASHI	X X DA 2020 2013 2013	
Sealing ⁽⁴⁾ Air tightness ⁽⁴⁾ Air tightness ⁽⁴⁾ COUN A REMARK Notes (1) Ab cri (2) Inc (3) R/	T Di 3 ove specificatio imp contacts. (A clude temperatu T : Room temp	Subjected to 17.6 kPa or connector to ESCRIPTIC DIS-C ns shows the pplicable crir re rise cause erature.	to a depth of 2m for 14 days. f air pressure applied to the insi- for 30s. DN OF REVISIONS C-00003790 e values in assembled condition mp contact:HR41-SC-111)	DES HT. with applicable	No heav No wate No air bu connecto SIGNED ZENBA	y corrosion whi r penetration in ubbles emitted or. APPROVED CHECKED	ch impairs functionality. to the connector. from the inside of the CHECKED HY.KOBAYASHI SU.OBARA HY.KOBAYASHI	X X DA 2020 2013 2013	
Sealing ⁽⁴⁾ Air tightness ⁽⁴⁾ COUN A REMARK Notes (1) Ab cri (2) Inc (3) R/ (4) Co	T Di 3 ove specificatio imp contacts. (A clude temperatu T : Room temp	Subjected to 17.6 kPa or connector to ESCRIPTIC DIS-C ns shows the pplicable criming re rise cause erature.	to a depth of 2m for 14 days. If air pressure applied to the insi- for 30s. DN OF REVISIONS C-00003790 e values in assembled condition mp contact:HR41-SC-111) ed by current-carrying.	DES HT. with applicable	No heav No wate No air bu connecto SIGNED ZENBA	y corrosion whi r penetration in ubbles emitted or. APPROVED CHECKED DESIGNED	ch impairs functionality. to the connector. from the inside of the CHECKED HY.KOBAYASHI SU.OBARA HY.KOBAYASHI TY.SUZUKI	X X DA 2020 2013 2013 2013	
Sealing ⁽⁴⁾ Air tightness ⁽⁴⁾ Air tightness ⁽⁴⁾ COUN A REMARK Notes (1) Ab cri (2) Inc (3) R/ (4) Cc wi	T Di 3 ove specificatio imp contacts. (A clude temperatu T : Room temper prrosion salt mis ith an applicable	Subjected to 17.6 kPa of connector to ESCRIPTIC DIS-C ns shows the pplicable crir re rise cause erature. t, sealing and e connector.	to a depth of 2m for 14 days. If air pressure applied to the insi- for 30s. DN OF REVISIONS C-00003790 e values in assembled condition mp contact:HR41-SC-111) ed by current-carrying.	DES HT. with applicable	No heav No wate No air bu connecto SIGNED ZENBA	y corrosion whi r penetration in ubbles emitted or. APPROVED CHECKED DESIGNED	ch impairs functionality. to the connector. from the inside of the CHECKED HY.KOBAYASHI SU.OBARA HY.KOBAYASHI TY.SUZUKI	X X DA 2020 2013 2013 2013	
Air tightness ⁽⁴⁾ Air tightness ⁽⁴⁾ COUN A REMARK Notes (1) Ab cri (2) Inc (3) R/ (4) Cc wi Unless oth	T Di 3 ove specificatio imp contacts. (A clude temperatu T : Room temperatu T : Room temperatu ith an applicable nerwise spe	Subjected to 17.6 kPa or connector to ESCRIPTIC DIS-C ns shows the pplicable crir re rise cause erature. t, sealing and connector.	to a depth of 2m for 14 days. f air pressure applied to the insi- for 30s. DN OF REVISIONS C-00003790 e values in assembled condition mp contact:HR41-SC-111) ed by current-carrying. d airtightness shall be tested un	DES HT. with applicable ider mated condi	No heav No wate No air bu connecto SIGNED ZENBA	y corrosion whi r penetration in ubbles emitted or. APPROVED CHECKED DESIGNED DRAWN	ch impairs functionality. to the connector. from the inside of the CHECKED HY.KOBAYASHI SU.OBARA HY.KOBAYASHI TY.SUZUKI	X X DA 2020 2013 2013 2013 2013	
Sealing ⁽⁴⁾ Air tightness ⁽⁴⁾ Air tightness ⁽⁴⁾ COUN A REMARK Notes (1) Ab cri (2) Inc (3) R/ (4) Cc wi Unless oth Note QT:Qu	T Di 3 ove specificatio imp contacts. (A clude temperatu T : Room temperatu T : Room temperatu ith an applicable nerwise spe ualification Te	Subjected to 17.6 kPa or connector to ESCRIPTIC DIS-C ns shows the pplicable crir re rise cause erature. t, sealing and connector. ccified, re st AT:Ass	to a depth of 2m for 14 days. If air pressure applied to the inside for 30s. DN OF REVISIONS C-00003790 e values in assembled condition mp contact:HR41-SC-111) ed by current-carrying. d airtightness shall be tested un fer to IEC 60512 (JIS (surance Test X:Applicable Tester ()	DES HT. with applicable ider mated condi C 5402).	No heav	y corrosion whi r penetration in ubbles emitted or. APPROVED CHECKED DESIGNED DRAWN G NO.	ch impairs functionality. to the connector. from the inside of the CHECKED HY.KOBAYASHI SU.OBARA HY.KOBAYASHI TY.SUZUKI TY.SUZUKI ELC4-118084	X X 2020 2013 2013 2013 2013 2013 2013 2013	
Air tightness ⁽⁴⁾ Air tightness ⁽⁴⁾ COUN A REMARK Notes (1) Ab cri (2) Inc (3) R/ (4) Cc wi Unless oth	T Di 3 ove specificatio imp contacts. (A clude temperatu T : Room temperatu T : Room temperatu ith an applicable nerwise spe ualification Te	Subjected to 17.6 kPa or connector to ESCRIPTIC DIS-C ns shows the pplicable crir re rise cause erature. t, sealing and connector. cified, re st AT:Ass	to a depth of 2m for 14 days. If air pressure applied to the inside for 30s. DN OF REVISIONS C-00003790 e values in assembled condition mp contact:HR41-SC-111) ed by current-carrying. d airtightness shall be tested un fer to IEC 60512 (JIS 0	DES HT. with applicable ider mated condi C 5402).	No heav No wate No air bu connecto SIGNED .ZENBA	y corrosion whi r penetration in ubbles emitted or. APPROVED CHECKED DESIGNED DRAWN G NO.	ch impairs functionality. to the connector. from the inside of the CHECKED HY.KOBAYASHI SU.OBARA HY.KOBAYASHI TY.SUZUKI	X X 2020 2013 2013 2013 2013 2013 2013 2013	