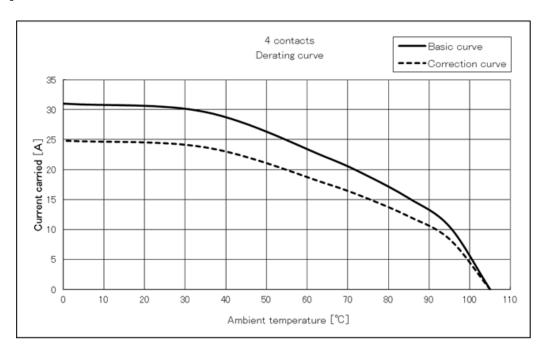
APPLICAB	LE STA	NDARD								
	Operating Temperature Range ⁽²⁾		1000 +1000		Storage Tei Range	mperature	-10°C to +60°C			
Rating	Voltage		AC 30 V , DC 42	V	Applicable Cable		Power : AWG#14 to 16 Signal : AWG#22 to 24			
	Current ⁽¹⁾⁽⁶⁾		Power : 24 A(Ambient Temperature 25°C) Insulation Signal : 1 A		Insulation d					
	-II		SPEC	CIFICATI	ONS	.	-			
IT	EM		TEST METHOD			REQL	UIREMENTS	QT	Α	
CONSTRUCTION			TEOT METHOD			NE QUINE INTO			1 / \	
General Exam		Examined	visually and with a measuring ins	strument.	Accordi	ng to the drawing	α.	Х	Х	
Marking		Confirmed	visually.				Х	>		
ELECTRIC	AL CHA	RACTERISTI	CS							
Contact Resist	tance	Measured	Measured at DC 1A.			10 m Ω MAX. (Power contact) 15 m Ω MAX. (Signal contact)			>	
nsulation Resi	istance	Measured	Measured at 500 V DC.			1000 MΩ MIN.			>	
/oltage Proof			applied for 2 min.	No flash	nover or breakdo	wn.	Х	>		
		ARACTERIST	ICS							
Contact Inserti Extraction Ford		Measured	Measured with a ϕ steel gauge.			Insertion and extraction forces: — N MIN.			_	
Mating and Unmating Ford	ces /1		Measured with an applicable connector. (Excluding lock mechanism.)			and unmating fo	rces: 60 N MAX.	х	-	
Mechanical Operation		<u> </u>	(Excluding lock mechanism.) Mated and unmated 30 times.			Contact resistance: 10 mΩ MAX. (Power contact)			-	
Vibration		Frequency	: 10 Hz to 55 to 10 Hz every cycle	vcle) 1) No el	15 mΩ MAX. (Signal contact) 1) No electrical discontinuity of more than 10 μs.			-		
Vibration		Single amp	olitude: 0.75 mm over 10 cycles in each of three rular directions.		2) No damage, cracks or looseness of parts.			_		
Shock		Acceleration	Acceleration: 500 m/s², Half sine wave pulses of 11 ms. Performed 3 times in each of three mutually perpendicular			1) No electrical discontinuity of more than 10 μs. 2) No damage, cracks or looseness of parts.			-	
ENVIRON	JENTA I	CHARACTER			l.			ı		
Damp Heat, Steady State			Subjected to a temperature of +40 °C, at a humidity of 90 to 95 % for 96 hours.			1) Insulation resistance: 10 M Ω MIN. (At high humidity) 2) Insulation resistance: 100 M Ω MIN. (When dry) 3) No damage, cracks or looseness of parts.			_	
Rapid Change	of Tempe	rature Temperatu	ire: -40 \rightarrow R/T ⁽⁴⁾ \rightarrow +105 \rightarrow R/ 30 \rightarrow 2 to 3 \rightarrow 30 \rightarrow 2		 Insulation resistance: 100 MΩ MIN. No damage, cracks or looseness of parts. 			_		
Corrosion Salt	Miet(3)	for 5 cycles	S.				•	X		
Corrosion Salt Mist ⁽³⁾ Dry Heat			Subjected to 5 % salt spray for 48 h.			No heavy corrosion which impairs functionality. No damage, cracks or looseness of parts.				
			Subjected to +105 °C for 96 h.							
Cold	(2)		Subjected to -40 °C for 96 h.			No damage, cracks or looseness of parts.				
Sealing(IPX7) ⁽ (JIS C 0920:20		Subjected	Subjected to a depth of 1 m for 0.5 h.			No water penetration to the inside of the connector.			_	
Air Tightness ⁽³		17.6kPa a	17.6kPa applied to the inside of the connector for 0.5m			n. No air bubbles from the inside of the connector.			_	
/2\			100L/min fountain water in all directions from a distance of 8m,3min			No water penetration to the inside of the connector.			-	
COUN	Т	DESCRIPTION	ON OF REVISIONS	D	ESIGNED		CHECKED	DA	ATE	
<u>3</u> 2		DIS-	C-00009416	S	H. KOYAMA		EJ. KUNI I	2021	1121	
REMARK Notes						APPROVED	YH. YAMADA	2020	2020012	
cont	acts (BH1	2-P-213,BH12-P1-	how the values in assembled condition with applicable 12-P1-213). due to current carrying. g and airtightness are tested in mated condition with an			CHECKED	HN. TANAKA	20200128		
appl	icable cor					DESIGNED	SH. KOYAMA	2020	20200128	
Jnless oth	nerwise	specified, re	fer to IEC 60512 (JIS (to IEC 60512 (JIS C 5402).		DRAWN	SH. KOYAMA		2020012	
				est	DRAWING NO.		ELC-390463-00-		0	
Note QT:Q										
HS			CATION SHEET	Р	ART NO.		BH12WRA-4P			



[Reference]



Notes (5) The derating curve is derived from the basic curve multiplied by the derating factor of 0.8.

- (6) The value of rated current varies with the ambient temperature. It is recommended to use the product within the derating curve zone.
- (7) The measurement method of the derating curve is shown below.
 - Test specimen: This product, unused prior to testing.
 - Test cable conductor cross sectional area : Power ··· AWG#14 (2.0mm²), Signal ··· AWG#22 (0.3mm²)
 - Test condition: Power supplied while the specimen is in a stationary state and then measured. (For details, please refer to the examination report number TR140E-20045.)

Note Q	Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.		ELC-390463-00-00		
R	SPECIFICATION SHEET	PART NO.	BH12WRA-4P			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL014	0-0013-0-00	3	2/2