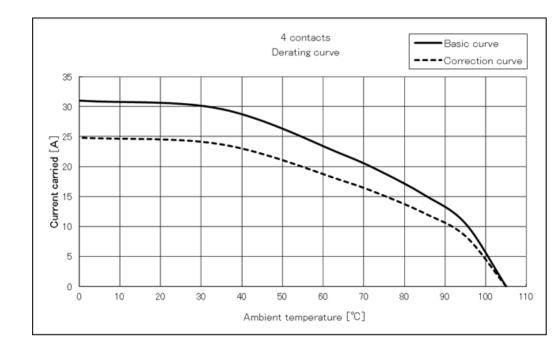
APPLICAB	LE S	TANDAF	RD									
Oţ		erating nperature	Range ⁽²⁾			Storage Temperature Range		;	-10°C to +60°C			
Rating	Voltage			AC 30 V , DC 42 V		Applicable	Cable		Power : AWG#14 to Signal : AWG#22 to			
	Current ⁽¹⁾⁽⁶⁾		Δ	Power : 24 A(Ambient Temperature 25°C) Ins Signal : 1 A		Insulation of	ulation diameter		Power : ϕ 2.6 to 3.0 Signal : ϕ 1.4 to 1.6			
				SPEC	CIFICAT	IONS						
ТІ	ГЕМ			TEST METHOD			R	EQU	IREMENTS	QT	A	
											1	
General Examination			Examined visually and with a measuring instrument.				According to the drawing.				>	
Marking			Confirmed visually.				0			Х)	
ELECTRIC	AL C	HARAC	TERISTI	CS								
Contact Resistance			Measured at DC 1A.				10 mΩ MAX. (Power contact) 15 mΩ MAX. (Signal contact))	
Insulation Resistance			Measured at 500 V DC.				1000 MΩ MIN.)	
Voltage Proof			600 V AC applied for 2 min.				hover or bre	eakdo	wn.	Х	>	
MECHANIC			TERIST	CS								
Contact Insertion and Extraction Forces			Measured with a ϕ steel gauge.				Insertion and extraction forces: - N MIN.				-	
Mating and Unmating Forces			Measured with an applicable connector. (Excluding lock mechanism.)			Mating	Mating and unmating forces: 60 N MAX.				-	
Mechanical Operation			Mated and unmated 30 times.			Contac	Contact resistance: 10 mΩ MAX. (Power contact)			Х	1 -	
Vibration			Frequency	: 10 Hz to 55 to 10 Hz every cycl	le (5 min per	cycle) 1) No e	15 mΩ MAX. (Signal contact) 1) No electrical discontinuity of more than 10 μs.				-	
VISIANON			Single amplitude: 0.75 mm Performed over 10 cycles in each of three mutually perpendicular directions.				damage, cracks or looseness of parts.				-	
Shock			Acceleration: 500 m/s ² , Half sine wave pulses of 11 ms. Performed 3 times in each of three mutually perpendicular directions.				 No electrical discontinuity of more than 10 μs. No damage, cracks or looseness of parts. 			x		
ENVIRON	MEN	TAL CHA	RACTER	RISTICS								
Damp Heat, Steady State			Subjected to a temperature of +40 °C, at a humidity of 90 to 95 % for 96 hours.			2) Insu	 Insulation resistance: 10 MΩ MIN. (At high humidity) Insulation resistance: 100 MΩ MIN. (When dry) No damage, cracks or looseness of parts. 			x	_	
Rapid Change of Temperature			Temperature: -40 \rightarrow R/T ⁽⁴⁾ \rightarrow +105 \rightarrow R/T ⁽⁴⁾ °C Time: 30 \rightarrow 2 to 3 \rightarrow 30 \rightarrow 2 to 3 min				 Insulation resistance: 100 MΩ MIN. No damage, cracks or looseness of parts. 				-	
Corrosion Salt	Mint(3)	for 5 cycles	5.	10 3 11111	,	0,			x		
	IVIISU	,		Subjected to 5 % salt spray for 48 h.			No heavy corrosion which impairs functionality.					
Dry Heat				to +105 °C for 96 h.			No damage, cracks or looseness of parts.				-	
Cold			Subjected	ected to -40 °C for 96 h.			No damage, cracks or looseness of parts.				-	
Sealing(IPX7) ⁽³⁾ (JIS C 0920:2003)			Subjected	ted to a depth of 1 m for 0.5 h.			No water penetration to the inside of the connector.				-	
Air Tightness ⁽³⁾				.6kPa applied to the inside of the connector for 0.5min.			No air bubbles from the inside of the connector.				-	
			100L/min fountain water in all directions from a distance of 3m,3min			of No wat	No water penetration to the inside of the connector			х	-	
COUN	IT	DE	SCRIPTIC	ON OF REVISIONS	[DESIGNED			CHECKED	DA	DATE	
<u>3</u> 2			DIS-	C-00009416		SH. KOYAMA			EJ. KUNI I	2021	121	
REMARK Notes							APPRO	/ED	YH. YAMADA	2020	0012	
contacts (BH12-P-213,BH12-P1 (2) Including temperature rise due t				,			CHECK	ED	HN. TANAKA	20200128		
							DESIGNED		SH. KOYAMA	2020	20200128	
		·		fer to IEC 60512 (JIS 0	C 5402).		DRAW	/N	SH. KOYAMA	2020	0012	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				est	DRAWING NO. ELC-3903		ELC-390399-0)-00-00				
HS SPECIFICA			CATION SHEET	F	PART NO.			BH12WR-4P				
		HIR	OSE EL	ECTRIC CO., LTD.		CODE NO.	CLO	014	0-0012-0-00	3	1/	
OPM HDOO11.												



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 QT:Qu	alification Test AT:Assurance Test X:Applicable Test	DRAWIN	IG NO.	ELC-390399-00-00		
RS	SPECIFICATION SHEET	PART NO.	BH12WR-4P			
11.0	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL014	0-0012-0-00	$\widehat{\mathfrak{A}}$	2/2