


APPLICABLE STANDARD							
Operating condition	Characteristic impedance	Differential 100 [ohm]	Operating temperature range	-10 to +60 [deg. C] (85 %RH MAX) No freezing and condensing			
	Storage temperature Range (before unpacking)	-10 to +60 [deg. C] (93 %RH MAX)	Storage temperature Range (after mounting, but not working)	-40 to +85 [deg. C] (85 %RH MAX) No freezing and condensing			
	Applicable connector	BF4-TX plug (Terminated optical fiber)					
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION							
Dimension, Construction and Finishing		Shall be carried out visually and measuring instrument.		According to drawing		X	X
Marking		Confirmed visually				X	X
ELECTRIC PERFORMANCE							
Data rate		Shall be checked by Eye Diagram when input differential 100 mV signal. (*1)		No mask hit at 0.5 to 3.0 Gbps.		X	-
Voltage proof		100 V AC for 1 min. (Shall be tested this product alone.)		No flashover or breakdown.		X	X
MECHANICAL CHARACTERISTICS							
Durability		50 cycles of mating and extraction. (*1)		No looseness, breakage and cracks (Visual and data rate check)		X	-
Vibration		Vibration for 10 cycles in 3 directions, at an amplitude of 1.5 mm with the frequency range 10 to 55 [Hz].(*1)				X	-
Shock		3 times and 3 directions with the acceleration 490 [m/s <sup>2</sup> ] in duration 11 ms. (*1)				X	-
ENVIRONMENTAL CHARACTERISTICS							
Temperature cycling		Temperature : -40 to +85 deg C Time : 10 [min] to 10 [min] Number of cycle : 100 cycles (*1)		No looseness, breakage and cracks (Visual and data rate check)		X	-
Resistance to dry heat		Temperature : 85 deg C Time : 1000 hours (*1)				X	-
Resistance to cold		Temperature : -40 deg C Time : 1000 hours (*1)				X	-
Applying current under heat and humidity		Temperature : 85 deg C, Humidity : 85%RH Time: 1000 hours, Applying current. (*1)				X	-
Temperature and humidity cycling		Shall be test 10 cycles of temperature ( -10 deg.C ⇔ +65 deg.C ) and humidity (93 %RH) cycling.				X	-
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE
△							
REMARK (*1) Shall be checked by mating with BF4M cable assembly (Tx-Rx).				APPROVED	MT.SHIBUTANI	12.10.29	
				CHECKED	SJ.SHIMIZU	12.10.29	
				DESIGNED	KS.JOKURA	12.10.26	
				DRAWN	KS.JOKURA	12.10.26	
Note QT: Qualification Test, AT: Assurance Test				DRAWING NO.		ELC4-178301-00	
	SPECIFICATION SHEET			PART NO.	BF4-TX-14DS-0.5V(**)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.		△	1/1