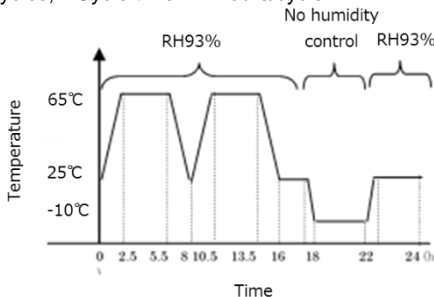



APPLICABLE STANDARD							
Operating condition	Characteristic impedance	Differential 100 [ohm]	Operating temperature range	-10 to +85 [deg. C] (85 %RH MAX) No freezing and condensing			
	Storage temperature Range (At packing)	-10 to +60 [deg. C] (93 %RH MAX)	Storage temperature Range (after mounting, but not working)	-40 to +85 [deg. C] (85 %RH MAX) No freezing and condensing			
	Applicable connector	BF4-IR2 plug (Terminated optical fiber)					
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS			
CONSTRUCTION							
Dimension, Construction and Finishing		Check visually and measure the dimension by dimensional measurement equipments		According to drawing	X X		
Marking		Check visually			X X		
ELECTRIC PERFORMANCE							
Data transmission performance		Measure eye diagram of output signal during input 200mVp PRBS7 differential signal (*1)		No mask hit at 0.05 to 6.25 Gbps.	X -		
Voltage proof		200 V AC for 1 min. (Shall be tested this product alone.)		No flashover or breakdown.	X X		
MECHANICAL CHARACTERISTICS							
Insertion and extraction forces		Measure the force at the mating speed less than 12.5mm/min		Insertion force : 25N MAX Extraction force : 25N MAX	X -		
Durability		1000 cycles of mating and extraction. (*1)		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 ²] in duration 11 ms. (*1)			X -		
ENVIRONMENTAL CHARACTERISTICS							
Transportation and storage temperature and humidity test		Applying temperature and humidity load as below Before test measurement 23 deg.C Cold test -20 deg.C (soak time: 72hours) Intermediate measurement 23 deg.C Damp heat test +60 deg.C, 90%Rh (soak time: 72hours) After test measurement 23 deg.C		No looseness, breakage and cracks (Visual and data transmission check before test, intermediate test and after test)	X -		
Temperature cycling		Temperature : -40 to +85 deg C Time : 10 [min] to 10 [min] Number of cycle : 100 cycles (*1)			X -		
High temperature storage		Temperature : 85 deg C Time : 1000 hours (*1)			X -		
Low temperature storage		Temperature : -40 deg C Time : 1000 hours (*1)			X -		
Temperature and humidity cycling		Temperature, Humidity: 10 ⇄ 65 degree Celsius, 93%RH w/o applying current.Number of cycle: 10 cycles, Cycle time: 24 hours/cycle 			X -		
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE		
△							
REMARK (*1) Shall be checked by mating with BF4M cable assembly (Tx-Rx).			APPROVED	YY.HIYAMA	20200907		
			CHECKED	TS.YAMAZAKI	20200907		
			DESIGNED	TY.SATO	20200907		
			DRAWN	SK.AOYAMA	20200907		
Note QT: Qualification Test, AT: Assurance Test			DRAWING NO.		ELC-384993-01-00		
	SPECIFICATION SHEET		PART NO.	BF4-IR2-16P-0.5SH(01)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL831-1020-0-01	△ 1/2		

SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
Solderbility	The duration and temperature of immersion shall be 245 +/- 3 °C 3 +/-1 0.3 sec		All leads shall be exhibit a continuous solder coating free from defect for a minimum of 95% of the critical area of any individual lead	X	-
Resistance to soldering heat	Reflow 2times in the Fig-1 codition		No critical connector deformation or looseness of contacts	X	-

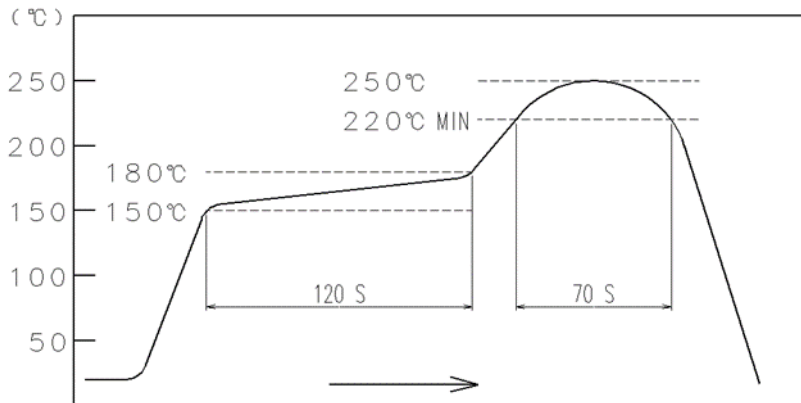


Fig-1. Reflow codition of resitance to soldering heat
(Tempearature at the top surface of connector)

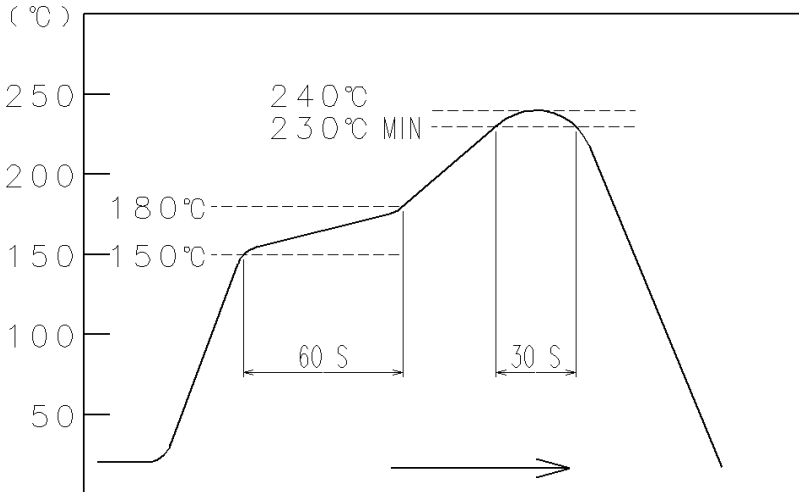




Fig-2 Recommended reflow profile temperature (Tempearature at SMT leads)

Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC-384993-01-00	
	SPECIFICATION SHEET		PART NO.	BF4-IR2-16P-0.5SH(01)	
	HIROSE ELECTRIC CO., LTD.		CODE NO	CL831-1020-0-01	 2/2