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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

Operating condition	Fiber	Outer diameter 0.5 GI 50/80	Operating temperature range (applying current)	-10 to +85 [deg.C] (85%RH MAX) No freezing and condensation
	Storage temperature range (at packing)	-10 to +60 [deg.C] (from 5 to 85%RH) No freezing and condensation	Storage temperature range (after mounting, not applying current)	-40 to +85 [deg.C] (from 5 to 85%RH) No freezing and condensation
	Suitable connector	FJ-L plug harness		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION

Dimension, Construction and Finishing	Visual inspection and dimension measurement	Comply with the drawing	X	X
Marking	Visual inspection		X	X

OPTICAL PERFORMANCE

① Insertion loss	850nm LED stabilized light source to measure insertion loss at both ends.	0.5dB or less (Per terminal)	X	X
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MECHANICAL CHARACTERISTICS

Mating Durability	50 cycles	No damage affecting function and operational performance. (Visual and data transmission check before and after test) Insertion loss variation after test 0.5dB or less. (No damage, cracks, loose parts, or No damage, cracks, loose parts, or problems with joints.)	X	-
Vibration	Vibration for 10cycle in 3 directions, at an amplitude of 1.5mm with the frequency range 10 to 55 [Hz].		X	-
Shock	3 times and 3 directions with the acceleration 490 [m/s ²] in duration 11ms.		X	-

ENVIRONMENTAL CHARACTERISTICS

Temperature cycling	Temperature: -40 to +85 [deg.C] ,w/o applying current Time: 10 minutes to 10 minutes Number of cycle: 100 cycles	No damage affecting function and operational performance. (Visual and data transmission check before and after test) Insertion loss variation after test 0.5dB or less. (No damage, cracks, loose parts, or No damage, cracks, loose parts, or problems with joints.)	X	-
High Temp storage	Temperature: 85 [deg.C], w/o applying current Time : 1000 hours		X	-
Low Temp storage	Temperature: -40 [deg.C], w/o applying current Time : 1000 hours		X	-
Temperature and humidity cycling	Temperature, Humidity : -10 to +65 [deg.C], 93%RH w/o applying current Number of cycle: 10 cycles Cycle Time: 24h/cycle		X	-

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
①				

REMARK ① Insertion loss measurement uses a master harness.	APPROVED	YY. HIYAMA	20221116
	CHECKED	TS. YAMAZAKI	20221116
	DESIGNED	SI. MATSUMOTO	20221116
	DRAWN	SK. AOYAMA	20221116

Note QT: Qualification Test, AT: Assurance Test	DRAWING NO.	ELC-400163-00-00
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HRS	SPECIFICATION SHEET	PART NO.	FJLN-LN-M0801-1M	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL0719-1500-0-00	① 1/1