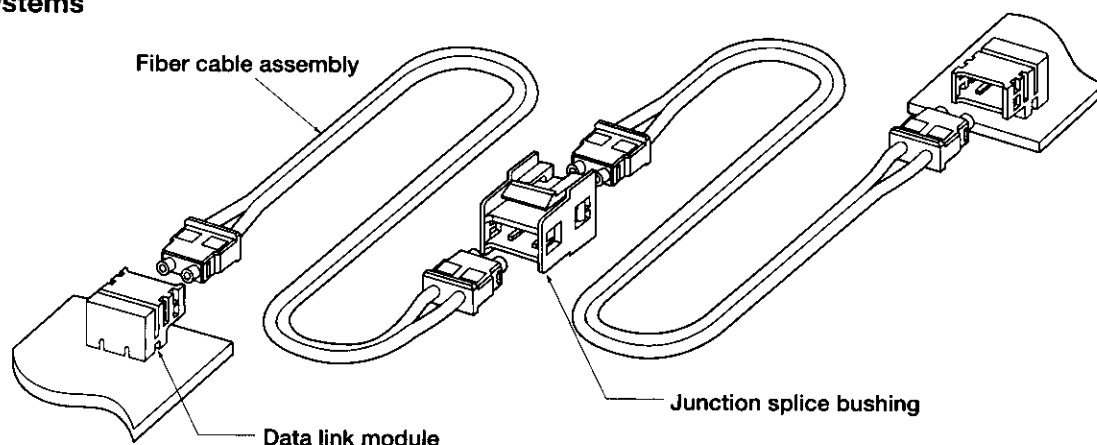


Special Connectors

OPTIMATE Mini DNP Connectors for Plastic Fiber Cable

Composition of Systems



Part No. of data link module	Fiber performance	Fiber diameter		Part No. of cable assy		Part No. of splice bushing	Part No. of data link module
		Clad dia.	Jacket dia.	100~990mm	1000~9900mm		
LED/photo IC 178670-1	NA=0.5	500 μ m	1.5mm	☐ -173384- ☐	☐ -173385- ☐	174137-1 insertion loss: 2dB	LED/photo IC 178670-1
	Transmission	750 μ m	1.8mm	☐ -173386- ☐	☐ -173387- ☐		
	loss:0.3dB/m	1000 μ m	2.2mm	☐ -173390- ☐	☐ -173391- ☐		

Note : Plastic fibers are UL recognized VW-1.

Maximum Ratings

1. Data Link Modules

	Item	Symbol	Rating	Unit
Over all	Storage Temperature	Tstg	-40~85	
	Operation Temperature	Top	-25~85	
	Soldering Temperature	Tsol	260 , 3sec	
Transmission	Permissible Loss	Pd	90	mW
	Forward Direct Current	If	60	mA
	Pulse Forward Current*1	Ifp	90	mA
	Direct Current Reverse Voltage	Vr	5	V
	Source Voltage	Vcc	7	V
Receiving	Tolerable Loss of Output Collector	Po	80	mW
	Low Level Output Current	Iol	16	mA

Note : Ambient temperature is 25 unless otherwise indicated. (*1) : tw=100 μ s, Duty=50%

2. Fiber Cable Assembly

	Item	Symbol	Condition	Rating	Unit
Fiber Tensile Strength	Tf		500 μ m	50	kg
			750 μ m	10	kg
			1000 μ m	14	kg
Fiber Retention Force	Tpf		500 μ m	1.5	kg
			750 μ m	4	kg
			1000 μ m	5	kg
Fiber Bending Radius	R			20	mm
Operating and Storage Temperature	Ta			-25~70	