

Performance Characteristics Connector & Optical Cable

CSD terminated cable assemblies deploy industry-leading, standards compliant, connectors and cable/cordage delivering high quality, reliable network connectivity. Connector termination processes have been optimized through years of termination experience, yielding CSD's performance characteristics.

Connector Insertion Loss (IL) values are maximum limits; typical performance is always better than maximum limits. Connector loss is mated connection loss, based on a connection made to a similarly terminated connector.

Connector Performance

Connector Type	type	Fiber Type / Wavelength	Fiber	IL (dB) per connection	RL (dB) per connection
LC	UPC	OM1 / 850nm	MM	0.25	-27
	UPC	OM2, OM3, OM4, OM5 / 850nm	MM	0.30	-27
	UPC	SM / 1310 / 1550nm	SM	0.25	-50
	UPC low loss	SM / 1310 / 1550nm	SM	0.15	-50
	APC	SM / 1310 / 1550nm	SM	0.30	-65
	APC low loss	SM / 1310 / 1550nm	SM	0.20	-65
SC	UPC	OM1, OM2, OM3, OM4, OM5 / 850nm	MM	0.30	-27
	UPC	SM / 1310 / 1550nm	SM	0.30	-50
	APC	SM / 1310 / 1550nm	SM	0.50	-65
ST	UPC	OM1 / 850nm	MM	0.35	-27
	UPC	OM2, OM3, OM4, OM5 / 850nm	MM	0.50	-27
	UPC	SM / 1310 / 1550nm	SM	0.50	-50
FC	UPC	OM1 ,OM2, OM3, OM4, OM5 / 850nm	MM	0.50	-27
	UPC	SM / 1310 / 1550nm	SM	0.50	-50

Connector Type	type	Fiber Type / Wavelength	Fiber	IL (dB) per connection	RL (dB) per connection
MPO	Low loss	OM2, OM3, OM4, OM5 / 850nm	MM	0.20	-27
MPO	std loss	OM1 / 850nm	MM	0.60	-27
	std loss	OM2, OM3, OM4, OM5 / 850nm	MM	0.60	-27
MPO	std loss	SM / 1310 / 1550nm	SM	0.65	-55

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Multimode Fiber

	OM1 loose tube & tight buffered	OM2 loose tube & tight buffered	OM3 loose tube & tight buffered	OM4 loose tube & tight buffered	OM5 loose tube & tight buffered
Max Attenuation dB/km @850/1300nm	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0
Min Bandwidth (OFL) MHz.km @850/1300nm	160/500	500/500	1500/500	3500/500	3500/500
Min Bandwidth (EMB) MHz.km @850nm	NA	NA	2000	4700	4700
1G Transmission distance (m)	NA	600	1000	1100	1100
10G Transmission distance (m)	NA	83	300	550	600
40/100G Transmission distance (m)	NA	NA	140	170	200

Single Mode Fiber

	OS1 tight buffered	OS2 loose tube
Max Attenuation dB/km @1310/1550nm	0.5/0.5	0.4/0.3

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