FOI-DSE3

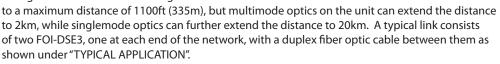


Description

The FOI-DSE3 provides complete electrical isolation for E3 communications.

The unit can be used in areas of high electrical noise or in and out of RF shielded enclosures. The fiber optic cable is not susceptible to interference caused by impulse noise, crosstalk, or EMI. Privacy of communications is also enhanced because the fiber optic cable does not radiate any emissions.

In addition, fiber optic cable offers much longer transmission distances than copper wiring. Traditional E3 coax cabling is limited



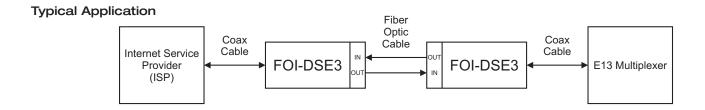


T/E Carrier

E3

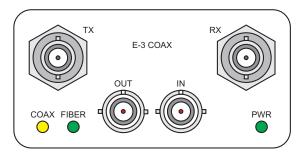
Features:

- Data Rate: 34.368 Mbps
- Compliant with:
- ITU-T G.703
- ITU-T G.823
- ITU-T G.775 for loss of signal
- Applications include:
- SONET Add/Drop Multiplexers (ADMs)
- PDH Equipment
- ATM WAN access routers and switches
- Satisfies K41 protection specifications for E3 systems.



LED Indicators

Label	Color	Description			
PWR	Green	Power supply in FOI unit is operating properly.			
	Off	No power from the PSQ power supply or open fuse inside the FOI unit. Check that the PSQ power supply is operating properly. If the PSQ power supply is good, separate the FOI unit from the PSQ pow supply for 30 seconds and then reattach so that the fuse inside the FOI unit has time to reset. If the PWR led is still off or not constant, replace the FOI unit.			
COAX	Amber	Coax receive data is being detected.			
	Amber Flash	Line code violation detected. More than three consecutive zeros were detected in the coax receive data or the previous line code violation is the same polarity as the current one.			
	Off	No coax receive data detected or threshold level is below 175 \pm 75 periods. The receive range on the RX BNC has been set to 104-1200 mVpk, but can be changed to 25-80 mVpk to compensate for low amplitude E3 signals. Also, if a longer length coax cable is required for the TX BNC, the line build-out can be increased to distances of 225ft or more. Please call FiberPlex to specify these conditions.			
FIBER	Green	Optical signal in detected.			
	Off	No optical signal in or optical level too low. Check that the opposite unit has power and that the fiber optic cables are properly connected. The transmit OUT optic from one end of the network connects to the receive IN optic at the opposite end as shown under "TYPICAL APPLICATION".			



FOI-DSE3-ST Front View





Specifications

		minimum	typical	maximum	unit
Dawey Daweiyanant	Voltage Range	7	9	12	V
Power Requirement	Supply Current	-	300	-	mA
		,			
Fi	Storage Temperature	-40	-	85	°C
Environmental	OperatingTemperature	0	-	50	℃
Data Rate	34.368 Mbps				
Line Encoding	AMI (Alternate Mark Inversion) / HDB3 (High Density Bipolar 3)				
Interface Connector	BNC				
	•				
Con Dimensions	Size 4	length	width	height	weight
Case Dimensions		4.5 in (114 mm)	1.453 in (37 mm)	2.562 in (65 mm)	2 lb (0.9 kg)

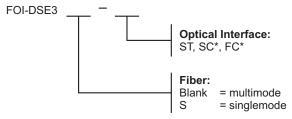
Optical Characteristics

Fiber	Size	Max Distance	Wavelength	Output Power	Receiver Sensitivity	Loss Budget
Multimode	62.5 / 125 μm	2 km	1300 nm	-16 dBm	-33 dBm	17 dB
Singlemode	9 /125 μm	20 km	1300 nm	-17 dBm	-35 dBm	18 dB

Accessories

Model	Description			
CMA-2001	Chassis Mounting Adapter for RMC-2101			
CMA-3002	Chassis Mounting Adapter for RMC-3101, RMC-3102			
PSQ-4910	Power Supply for FOI-4xxx series			
RMC-2101	Rack Mount Chassis 3-1/2" H x 19"W, rear access			
RMC-3101	Rack Mount Chassis 5-1/4" H x 19"W, front access			
RMC-3102	Rack Mount Chassis 5-1/4" H x 19"W, front access with optical patch panel			
WMA-2001	Wall Mount Adapter with optical patch			
WMA-3002	Wall Mount Adapter			

Ordering Information



^{*} Indicates Custom Catalog Item

Standard Options:

FOI-DSE3-ST FOI-DSE3S-ST

For special applications that require custom units, please call FiberPlex for more information.