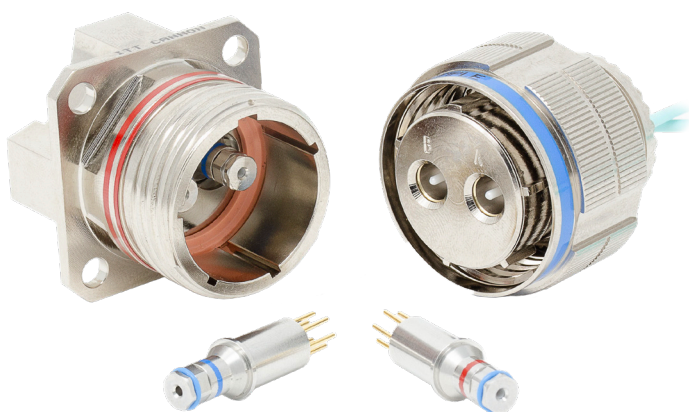




# Cannon's Cu Light Series Copper-to-Fiber Conversion

Size #8 TOSA-ROSA for 10 Gbps Copper-to-Fiber conversion in military circular connectors

KJCTF Shell  
38999 Series III



Transmitter TOSA  
VCSEL Laser  
(Blue Band)

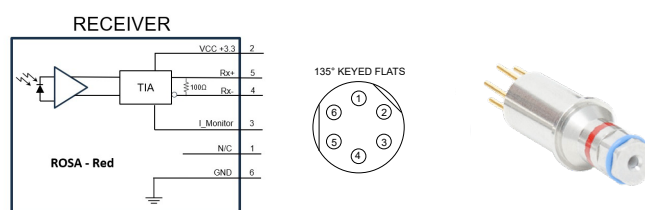
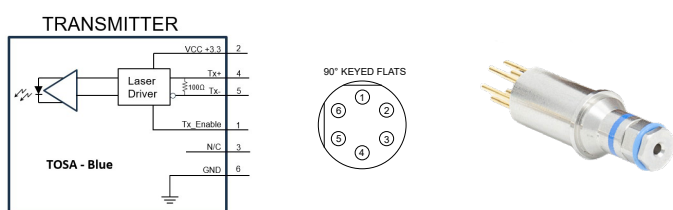
Receiver ROSA  
Photodiode  
(Red Band)

## Features & Benefits

- Ruggedized Copper to Fiber Transmitters and Receivers
- Interfaces to KJCTF Plug with ARINC 801 (1.25mm Ceramic Ferrule) Termini
- Terminates to PCB or Flex Circuit with HS Interface Board Connector
- Sealed Design Eliminates Moisture Ingress
- Ruggedized for Shock and Vibration Environments
- Replacement for High-Speed Copper Quadrx Contacts
- Field Replaceable (FR-FR) Contact Retention System allows for maximum "Mission Readiness"

Designed per MIL-PRF-38534 requirements, Cu Light offers a robust, TOSA-ROSA Copper-to-Fiber conversion in a Size #8 contact system that can be deployed in any Cannon harsh-environment connector. With operating speeds +10 Gbps, this revolutionary solution allows the copper-to-fiber conversion within the connector contact system instead of requiring a secondary media converter box. This provides an ideal solution when EMI resistant optical fibers are needed for longer transmission distances. The solution also provides the designer and end-user with field-replaceable pluggable (FR-FR) contact retention system to ensure field-readiness for your mission-critical design.

Performance	100 Mbps to 10.125 Gbps
Tested to MIL-Spec Standard	MIL-PRF-38534 (MCM)
	MIL-DTL-38999 Series III
Termini Size	Size #8 Active Optical Contact System
Shell Size	9, 17, 21, 23, 25



## Test Performance

Measure	P1:rise(C3)	P2:fall(C3)	P3:ebitr(Eve)	P4:freq(C2)	P5:-
value	< 69 ps	86 ps	10.12 Gbit/s		
status					
C1	C4	C650	Eve		
50.0 mV	50.0 mV	100 mV/div			
-181.0 mV	-179.0 mV	16.5 ps/div			
		20.189 MHz			
SDA Eye	EyeHeight	EveOne	EveZero	EveAmpl	EveBER
Lane1	231.5 mV	176.5 mV	-169.2 mV	345.7 mV	53.208700e-21
SDA Jitter	Tj(f=12.0)	Dj(sp)			
Lane1	60.107 ps	2.317 ps	27.520 ps		

