



FEATURES:

- D38999 MIL-STD interface
- Tactical fiber optic cable
- Optical Transmission Medium Types: Multi-Mode and/or Single-Mode
- Up to 3GHz analog RF signal
- Environment sealed IP67 when mated
- Single DC Supply: +12V to +30V
- Extended Temperature Available -40°C to +85°C
- I2C Interface for Health Monitoring
- EMI/RFI filter in the I/O interface
- Complies with MIL-STD-810
- Complies with MIL-STD-461

APPLICATIONS:

- Harsh Environment Analog and Digital Communication Links
- Remote Control Applications
- Remote Antennas
- Long Reach Applications
- Tactical Military Applications
- Cellular backhaul

JOINT VENTURE DESIGN:



OVERVIEW

The ACON series is an Electro-Optic active cable supporting both analog and digital signals transmission over fiber in harsh environment *

The ACON products family is based on MIL-STD-D38999 series III connector and enable transferring a wide range of signals and protocols, standard and non-standard per specific applications.

It enables customers to leverage the advantages of optical communication, including high data rates, longer reaches, high noise susceptibility, lower weights and smaller form factor, for harsh environment applications while optical interfaces "invisible" to the system integrator and/or the end user. This eliminates the optical interfaces maintenance (mainly connectors cleaning) for the service personnel. In addition it makes the electro optical design seamless for the system designers as both ends of the cable are of electrical signals type.

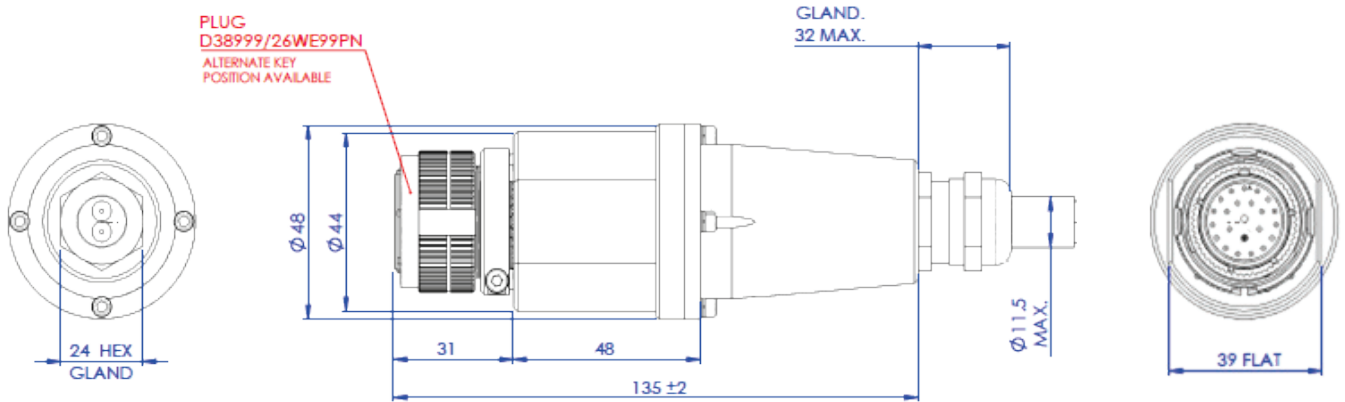
The ACON 17-99 series is based on D38999 size 17-99. It supports a combination of 10/100/1000 Base-T Ethernet and/or RF analog signal up to 3GHz bandwidth for up to 5Km cable length. It contains integrated magnetic function as EMI/RFI filter for the Ethernet line to secure the signal from customer coper I/O panel

SPECIFICATIONS

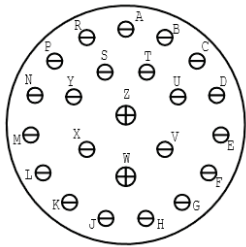
Parameter	Value	Unit
Electrical Specification		
Voltage Supply (Vcc)	+12 to +30	VDC
Power Supply	Up to 3.5	W
RF LINK Specification		
BW	3	GHz
Gain	0	dBm
Flatness	±4	dB
SFDR	104	dB
RF Input / Output Impedance	50	Ohms
Ethernet Specification		
Data rate	10/100/1000	Mb/sec
Cable length (Cat. 5, BER<10-12)	100	m
Environmental Specification		
Relative Humidity (non-condensing)	85	%
Operating Case Temperature	-40 to +85	°C
Storage Case Temperature	-40 to +85	°C

* Patent Pending

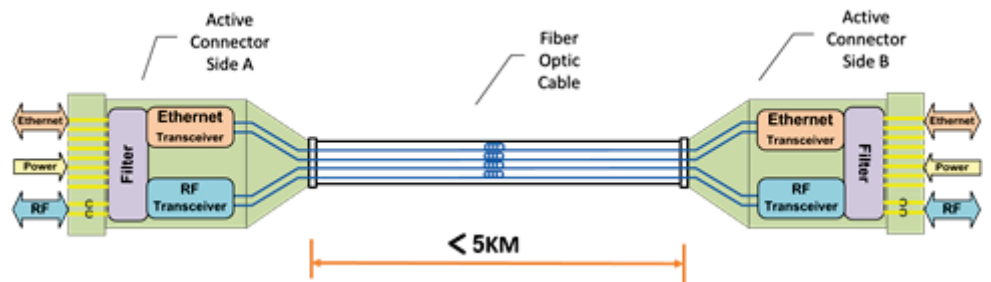
MECHANICAL DIMENSIONS



PIN ASSIGNMENT



BLOCK DIAGRAM



ORDERING INFORMATION

ACON	S-A	-	PK1	-	F1	-	PK2	-	F2	-	C	-	L
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Shell-Size & Pin-Arrangement According Mill STD D38999	Polarization-Key Side A	Functionality Side A	Polarization-Key Side B	Functionality Side B	Class (Material & Finish)	Length
11-35	N	E00 = Ethernet	N	E00 = Ethernet	F = Aluminum shell, electroless nickel finish	0M5 = 0.5m
15-35	A	ET3 = Ethernet & Analog TX 3GHZ OT3 = Analog TX-3GHZ	A	ER3 = Ethernet & Analog RX 3GHZ OR3 = Analog RX-3GHZ	W = Aluminum shell, olive drab cadmium over electroless nickel base	01M = 1m
17-99	B		B		K = Stainless steel shell, passivated, with firewall insert	3M5 = 3.5m
....	C		C		S = Stainless steel shell, electrodeposited nickel, with firewall insert	10M = 10m
....	D		D			1K5 = 1.5Km
....	E		E			...

JOINT VENTURE DESIGN:



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Model # - Examples

ACON17-99-N-E00-N-E00-W-1M

ACON17-99-A-ET3-N-ER3-F-0M5