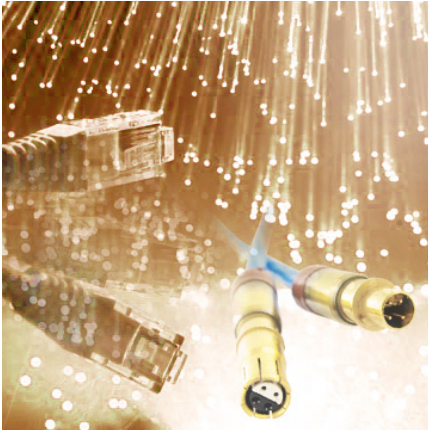


Amphenol



Global Ethernet Network Solutions for the Military Market

GLOBAL ETHERNET NETWORK SOLUTIONS

Network Design & Evaluation

Rugged RJ FIELD solutions

µCom - 10 Gb +
Micro Connector
10Gb Ethernet

"Split-Pair" Quadrx contacts

HD38999
High Density
connectors

2M
Micro & lightweight
connector

Terrapin
Push-pull miniature
connectors

TACBeam
Fiber Optics Expanded Beam
Hermaphroditic connectors

POWER SUPPLY
PowerSafe - 13A to 100A
Safe connection and
disconnection under load.



Managed & Unmanaged
Military Ethernet Switches
MIL-STD-461
MIL-STD-810



Media Converters
MIL-STD-461
MIL-STD-810



Rugged USB FIELD Solutions
(USB Field TV, USB keys,
MIL-STD-810)



Cabling Systems:
Copper and Optical connections,
Power connector and cordsets



CTOS / CTOL
Fiber Optics Expanded Beam
Protection window
Singlemode & Multimode
Hermaphroditic connectors



TFOCA-II®
4 channels - Fiber Optics
Hermaphroditic connectors

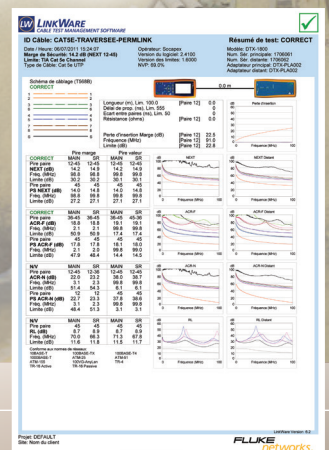


Lux-Beam™
Single Expanded Beam
Termini
For #16 cavities



Battlefield Communication

www.amphenol-socapex.com



Ethernet Network Solutions for C4ISR applications

Amphenol Socapex provides Ethernet Network Solutions for use in harsh environments, where reliability and resistance to outside influences, such as temperature, shock, vibration, water, dust, etc. are paramount. Our rugged and durable solutions give you the assurance of a continuous and secure data transmission between all your communication equipments in the harshest environments.

Amphenol Socapex capabilities in Ethernet networks include:

- Network design
- Network evaluation
- Network gateways and converters
- Measurement equipment

Based on our expertise in harsh environment, we provide the Security & Defense markets with both the interconnection products and the Ethernet network design.

How can we provide you with 100% secure and reliable Ethernet Networks?

Our large range of MIL Spec connectors:

- Optical connectors: expanded beam & butt joint
- Ethernet connectors

Our Ethernet Switches, the heart of the network, meet the following standards:

- MIL-STD-810 (environment)
- MIL-STD-461 (EMI)
- MIL-STD-704 or MIL-STD-1275 (power)

Our range of Media Converters and Connectors Adapters:

- Ethernet Copper/Fiber optic
- Ethernet/CAN Bus
- RJ45/Quadrx adapters
- RJ45 and USB/38999 adapters

Our Network Design is 100% secure for data transmission with:

- MIL-STD standards compliance
- Resistant components selected to support extreme conditions

Our Network equipment:

- Vectorial Network Analyser
- Fluke Cable analyser
- Switch Tester
- Optical Reflectometer

Our Dedicated Network team understands your requirements:

- Network Engineers
- Ethernet switches application Engineers
- Connector Product Group Managers



Ethernet Switches & Media Converters



- Miniature Military Ethernet Switch
- 8 x 10/100Tx ports
- MIL-STD-461 EMI
- MIL-STD-810 Environment
- MIL-STD-704 and MIL-STD-1275 Power

RES-SCE-AC-8US



- Military Ethernet Media Converter with CTOS
- Up to 2 x 10/100/1000Tx to 2 x 1000 CTOS fiber optic ports up to 50Kms
- Supports PoE (PD or PSE)
- MIL-STD-461 EMI
- MIL-STD-810 Environment
- MIL-STD-704 and MIL-STD-1275 Power

RES-GMC-CTOS



- Unmanaged Military Ethernet Switch
- MIL-DTL-38999 connectors
- 8 x 10/100Tx ports
- MIL-STD-461 EMI
- MIL-STD-810 Environment
- MIL-STD-704 and MIL-STD-1275 Power

RESMLAC-8US



- 4x independent media converters
- CTOS Expanded beam connector STANAG 4290
- Cat 6 Gigabit RJ45

RES-GMC-4CTOS-4RJF



- Managed Military Ethernet Switch, RJ45 connectors
- 8 x 10/100/1000Tx ports
- MIL-STD-461 EMI
- MIL-STD-810 Environment
- MIL-STD-704 and MIL-STD-1275 Power

RJSMLAC-8MG



- Up to 2x 10/100/1000Tx to 2x 1000 TACBeam Fiber optic ports up to 50 kms
- TACBeam Expanded beam connector M83526
- MIL-STD-461 EMI
- MIL-STD-810 Environment
- MIL-STD-704 and MIL-STD-1275 Power

RES-GMC-TACBeam



Battlefield Communication

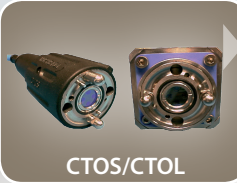
SOLDIERS AND BATTLEFIELD



Typical applications:

- Shelters
- Perimeter security systems
- HD video cameras
- Radars
- UAV control stations
- Tactical radios
- Satellite reception units
- Military computers
- Laser rangefinders
- Target training systems

Fiber Optics Connectors & Cable Assembly



- Expanded Beam, Lens and Window technology
- Stainless steel and rubber protection
- Hermaphroditic & easy daisy chaining
- 1/2/4/8 channels
- Singlemode & Multimode option
- Ethernet & RF compliant
- STANAG 4290 compliant

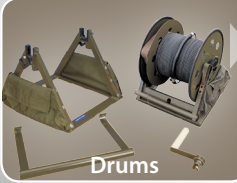
CTOS/CTOL



NEW

Lux-Beam™ size 16

- Miniature Single Optical Expanded Beam termini
- 140 x the fiber section
- Reduced sensitivity to dust
- Compatibility Cavity #16 MIL-DTL-38999 series II & III TV/CTV, EN3645 EN 4165 (SIM)
- Possibility to mix with Electrical contact for Hybrid solutions
- Performance standard MIL PRF 29504



Drums

- Tactical drum for deployable power, data and optical patchcord
- Exists in different materials, accessories, size, diameters, length of cable



TFOCA II

- Fiber optic, multimode connector with hermaphroditic design
- Meets the MIL-C-83526 performance criteria
- Easy field maintenance and cleaning



TACBeam

- Hermaphroditic coupling
- Interchangeable/interchangeable with other manufacturers
- 1, 2, 3 or 4-Channels
- Rubber overmold
- Aluminum or marine bronze options
- MIL-PRF-83526 compliant (qualification ongoing)
- Multiple configurations available



M28 876 Series

- Fully keyed threaded connectors
- Aluminum, marine bronze or stainless steel
- APC Termini options
- Operates with singlemode and/or multimode
- Multiple keying options



TVOP

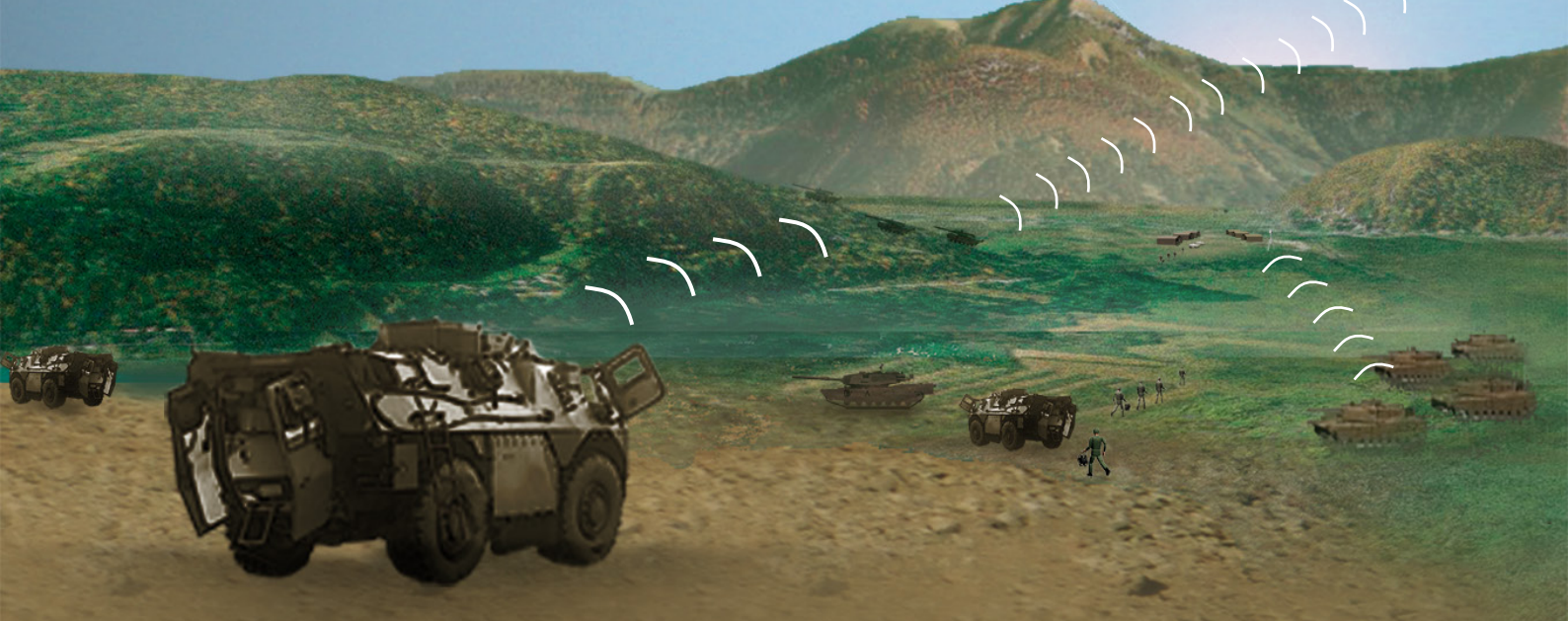
- Optical Butt joint technology
- Fully keyed thread connectors as 38999 series III
- Aluminum or marine bronze version
- 1/2/4/8 channels
- Singlemode & Multimode option
- Ethernet & RF compliant



Arinc 801

- Qualified to the ARINC 801 Specification
- Supports standard suite of 38999 backshells and accessories
- Aluminum or stainless steel version
- Removable ASR facilitates termini cleaning
- High density arrangements up to 32-channels
- MIL-DTL-38999 Footprints

Continuous & Secure Data Transmission



GROUND VEHICLES



Network Solutions

Typical applications:

- Vetric architecture
- Tactical computers
- Tactical radios
- HD cameras
- Remote controlled weapon stations
- Bomb Jammers
- Secure Wireless External Gateways

Ethernet Connectors & Cable Assembly

NEW
CAT6



RJFTV series
(Categories 5E & 6)

- Based on MIL-DTL-38999 series III
- Threaded locking mechanism
- 10/100/1000/BASE-T Ethernet (category 6)
- IP 68
- Coming soon in Cat6A (10GBase-T)

NEW



µCom-10 Gb +

- Miniature 10 Gb + Ethernet connector /Cat6A
- 15 mm(.59") max
- MIL-DTL-38999 environmental resistance
- Solder and crimp contacts
- Threaded coupling mechanism
- Push-pull version on same receptacle

NEW
CAT6



RJF series
(Categories 5E & 6)

- Based on MIL-DTL-26482
- Bayonet locking mechanism
- 10/100/1000/BASE-T Ethernet (category 6)
- IP 68
- Coming soon in Cat6A (10GBase-T)



µCom contact

- Coming soon:
- 10 Gb + Ethernet contact to be used in MIL-DTL-38999 series III size 11 and SIM-EN4165 connectors
 - Category 6A (10GBase-T)



RJF Cordset

- Reinforced Ethernet category 5E cable (1000 Base T)
- Also now available in Cat6, Cat6A & Cat7
- Double shielding (Braid & Foil)
- Halogen free jacket
- Available in numerous cordset length or in reel of 100 or 300 meters



Split pair
quadrx contacts

- Offers high performance interconnect solution for CAT6A type cable
- Enhanced crosstalk performance due to compatibility with shielded twisted pair of cables
- Available in size 8 crimp termination style or PC tails
- Can be installed into existing quadrx contact connector cavities



MIL-DTL-38999

- MIL-DTL-38999 series I, II and III cylindrical connectors
- 9-9, 11-35 & 15-35 MIL-DTL-38999 series III for Cat5E Ethernet
- Wide range of backshells
- Signal, power, twinax, quadrx contacts, optical termini



Quadrx contacts

- Offers advantage for high data transfer rates, low power consumption and excellent EMI compatibility
- Available in size 8 crimp termination style as well as PC tails
- Four strategically spaced inner contacts form two 100 or 150 Ohm matched impedance differential pairs



MRC

- Connector series that can be used for all your multi-media needs. USB2.0, HDMI, Ethernet



2M

- Small and lightweight connector
- Versatility of styles and options
- Mil-spec performance for harsh environmental conditions

Network Design & Evaluation



NAVY

Network Solutions

Typical applications:

- Embedded ethernet networks
- Tactical computers
- Sensors
- Very long range radios
- Consoles
- Perimeter security systems
- HD video cameras
- Radars
- Missile tracking/launch systems
- Positioning systems

Shells are also available in
Marine Bronze and Stainless Steel



Rugged USB Solutions

NEW
USB3.0



USB FTV & USB3 FTV

- Based on MIL-DTL-38999 series III
- Threaded locking mechanism
- IP 68
- Now available in USB 3.0



Reinforced USB cable

- Reinforced USB cable
- Double shielding (Braid & Foil)
- Halogen free jacket
- Available in USB.A cordset or in 300 meters reel
- Available in USB2.0 and now in USB3.0



Rugged USB
memory key

- Based on MIL-DTL-38999 series III
- USB 3.0 for capacities from 32 to 256GB
- IP68
- USB2.0 for capacity 4GB
- MIL-STD-810F

NEW



Extender/USB
amplifier

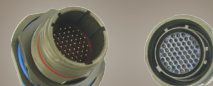
- Based on MIL-DTL-38999 series III
- Dedicated to applications where the USB cable length is longer than 4.8 meters which is the limit of USB specification
- MIL-STD-810F
- Long distance extender on fiber optic on demand
- For more information please contact us

Additional Solutions for Networks



MIL-DTL-38999

- MIL-DTL-38999 series I, II and III cylindrical connectors
- Wide range of backshells and more than 80 inserts arrangements
- Signal, power, twinax, quadrx contacts, optical termini



HD 38999

- Higher contacts density
- 40% more contacts vs MIL-DTL-38999
- The only high density connector which meets or exceeds MIL-DTL-38999 series III performances



PowerSafe

- From 13A to 100A safety due to a first-to-mate earth contact linked to the shell
- Derived from the standard MIL-DTL-38999 III with the same environmental characteristics



RNJ / RNJ LP

- Rack & Panel solutions for harsh environment
- Very lightweight vs ARINC 404 or 600
- Derivated from 38999 series
- Realignment capability on 3 axis
- MIL-DTL-38999 level sealing with the specific membrane mounting



PT

- MIL-DTL-26482 series I subminiature cylindrical connectors
- Crimp, solder, & PCB contact versions
- Wide range of backshells and inserts arrangements
- Available with plastic self closing cap option



Terrapin

- Circular push-pull connectors
- Superior EMC performance and high environmental sealing to IP68
- Optional locking mechanism, multiple shell sizes, suitability for overmoulding

NEW



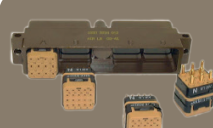
Harness

- Military & harsh environment applications
- All types of sleeves, overbraiding, overmolding
- Cost advantage on Amphenol content for connectors & backshells



RF Coaxial contacts

- For MIL-DTL-38999/EN3645/EN4165
- The HIGHEST frequency available on the market: up to 65Ghz
- The LARGEST range of size available on the market: 3 sizes 8,12 & 16
- Designed for HARSH ENVIRONMENT
- Unique "Float Mount" technology to allow consistant microwave performance



SIM

- Lightweight composite & modular connector
- For sealed and EMC applications in harsh environment
- Modularity for customization: all technologies in one shell (signal, power, optics, ethernet, quadrx...)

OTHERS

Network Solutions

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Phone: +1 607 563 5011

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www.amphenol-socapex.com/technical_support

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Designed by Amphenol Socapex
DOC-000033-ANG • October 2018

Your local Contact:

DOC-000102-ANG