Amphenol

TFOCA*two*

TFOCA*two* Four Way Fiber Optic Connector

The United States Army Communications Division (CECOM) placed Amphenol (NYSE: APH) on the approved supplier list for Harsh Environment Fiber Optic Interconnects to TFOCA-II®. Amphenol has brought many enhancements to the current design.

The TFOCA*two* connector is based on proven Amphenol fiber optic interconnect technology utilised throughout the world, with the TFOCA*two* incorporating proven interoperability with legacy tactical operational centre fielded equipment.

This Series has been designed using Amphenol Ltd sealed floating ceramic ferrule system, and one-piece monobloc construction. This proven construction aids cleaning in-field repair and offers superior optical performance and stability.

TFOCA*two* is fully intermateable and inter-mountable with the USA TFOCA-II® series. It has a custom designed monobloc that is easily removable with a dime, to allow optical terminal, plug body and internal coupling ring cleaning.

Features

- Plug and jam nut receptacle, multimode connector styles
- Hermaphroditic design to enable daisy chaining of cables
- Aluminium alloy in zinc cobalt olive drab plated finish
- Dime coin/screwdriver fit nut – turn once to easily remove monobloc for easy cleaning
- Moulded rubber boot for strain relief of cable
- Arctic grip coupling nut
- Cadmium plated/anodise finishes available on request

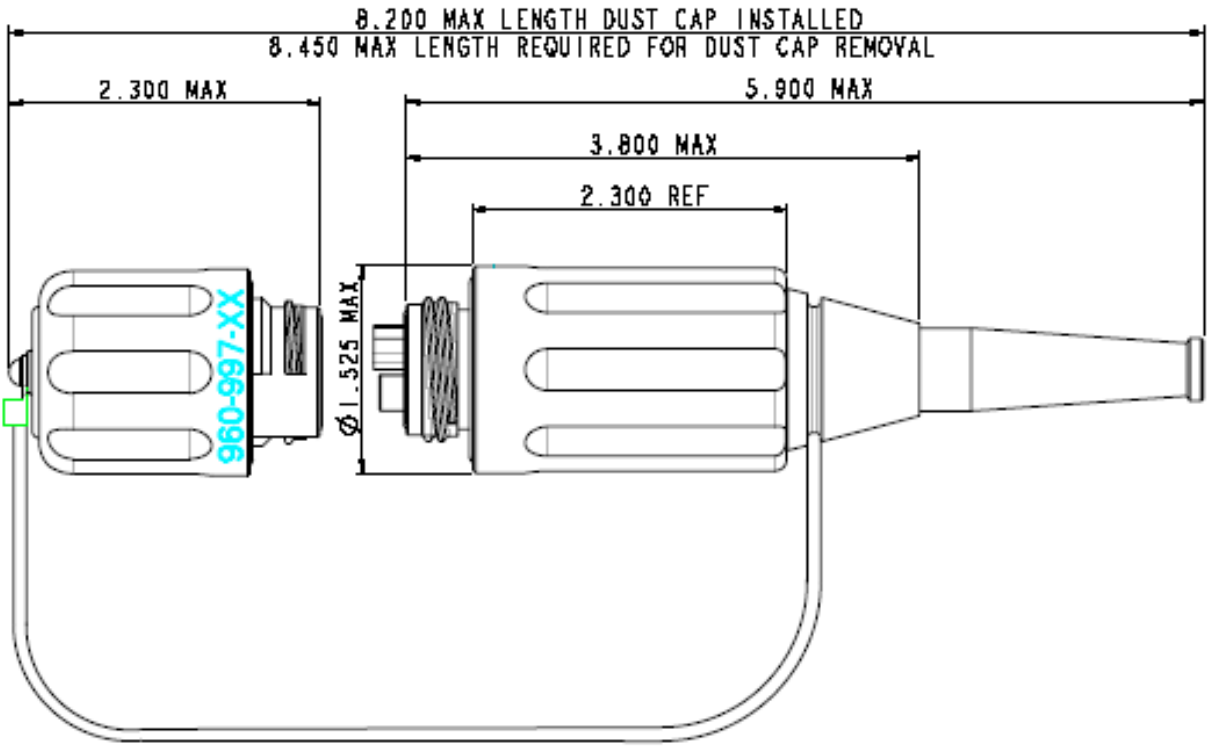
Specifications

Environmental Performance		
Test	**Method**	**Details**
Temperature Cycling	DOD-STD-1678, Method 4020 / MIL-STD-202, Method 107	5 cycles, -46°C/+71°C
Storage Temperature	MIL-STD-810F, Method 501.4, Procedure I	168 hours, +85°C 24 hours, -55°C
Humidity	DOD-STD-1678, Method 4030 MIL-STD-202F, Method 106E	10 cycles
Water Pressure	MIL-STD-810, Method 512.4, Procedure 1	1m for 48 hours
Dust	MIL-STD-810, Method 510.4, Procedure 1	6 hours +23°C 6 hours +65°C
Corrosion Resistance	MIL-STD-1344A, Method 1001, Test Condition A	96 hours

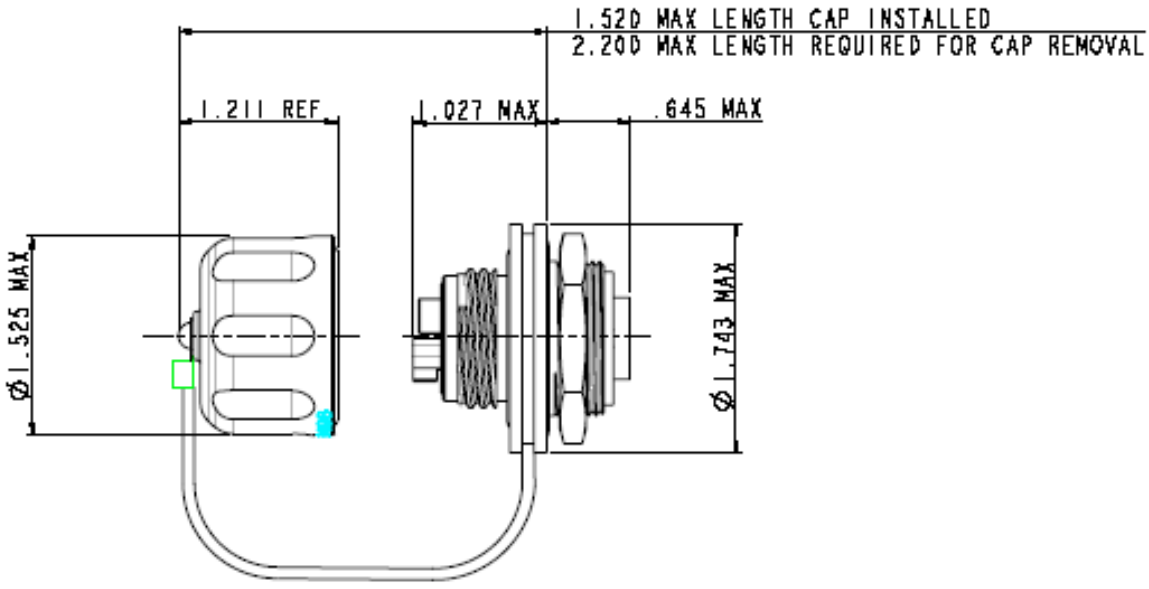
Mechanical Performance		
Test	**Method**	**Details**
Cable Retention	MIL-STD-1344A, Method 2009	1 minute, 182 Kg
Cable Sealing Flexing	MIL-STD-1344A, Method 2017, Test Procedure I	200 cycles
Crush Resistance	MIL-STD-1344A, Method 2008.1	1250 N
Impact	EIA-455-2 Method B (severe)	40 drops: 2.4m, 1.8m, 1.2m, 0.6m
Maintenance Ageing	MIL-STD-1344A, Method 2002	10 cycles
Vibration	DEF STAN 00-35, Part 3, Test M1	6 hours. 0.1g²/Hz 20 Hz – 2 kHz
Mechanical Shock	EIA-455-14, Test Condition A. MIL-STD-1344A, Method 2004, Test Condition A	18 shocks, 50g, half-sine, 11 millisecond duration
Mating Durability	EN 186000-1	2000 cycles

Optical	
Attenuation	0.5dB Max.
Fibre Types	50 x 1.25µm, 62.5/125µm and 9/125µm
Cable Types	5.5mm OD Tactical 4 Core – 035 3mm OD Ruggedised Simplex - 011

TFOCA*two* Plug



TFOCA*two* Receptacle



Dimensions are in inches and apply before plating

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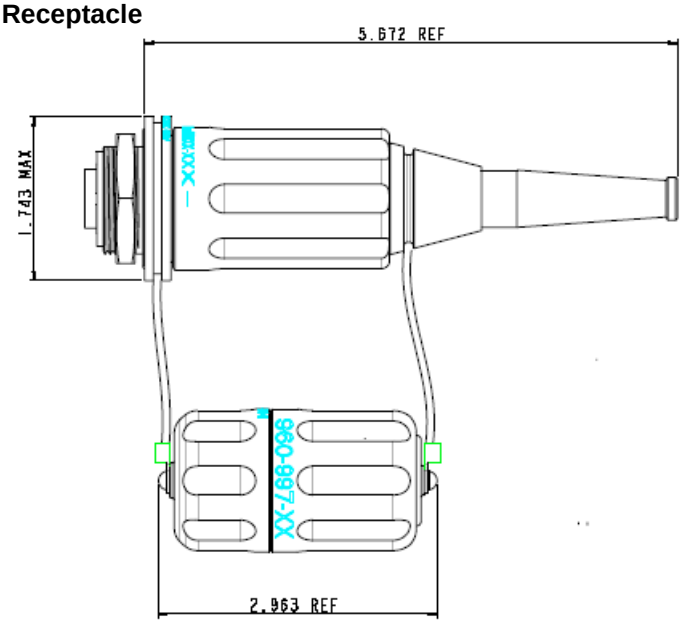
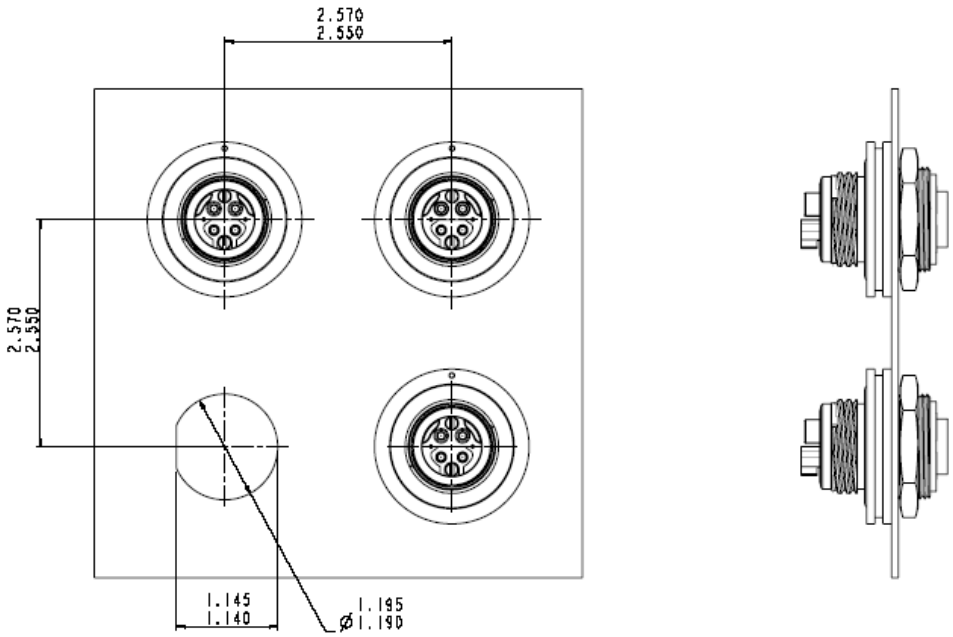
Connected Plug and Receptacle



Panel Layout Details



Please contact the Amphenol PCD factory for accessories, deployable cable drums and quotations

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