

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

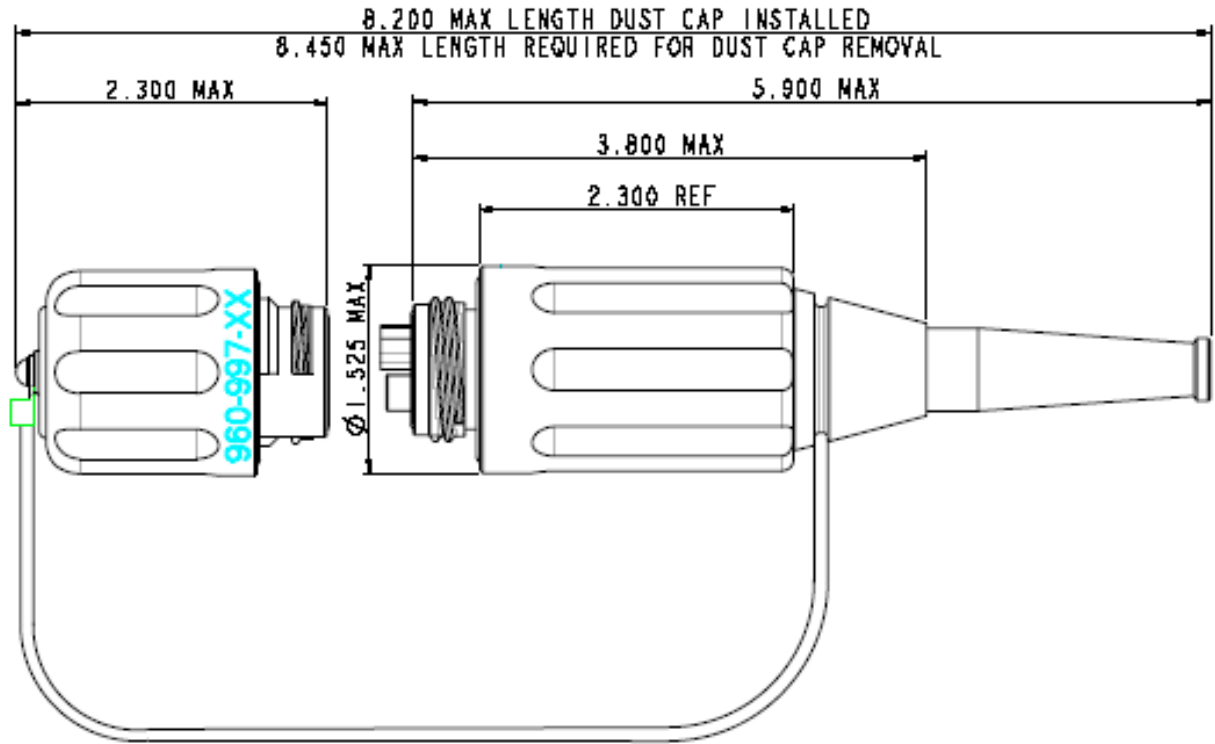
Specifications

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

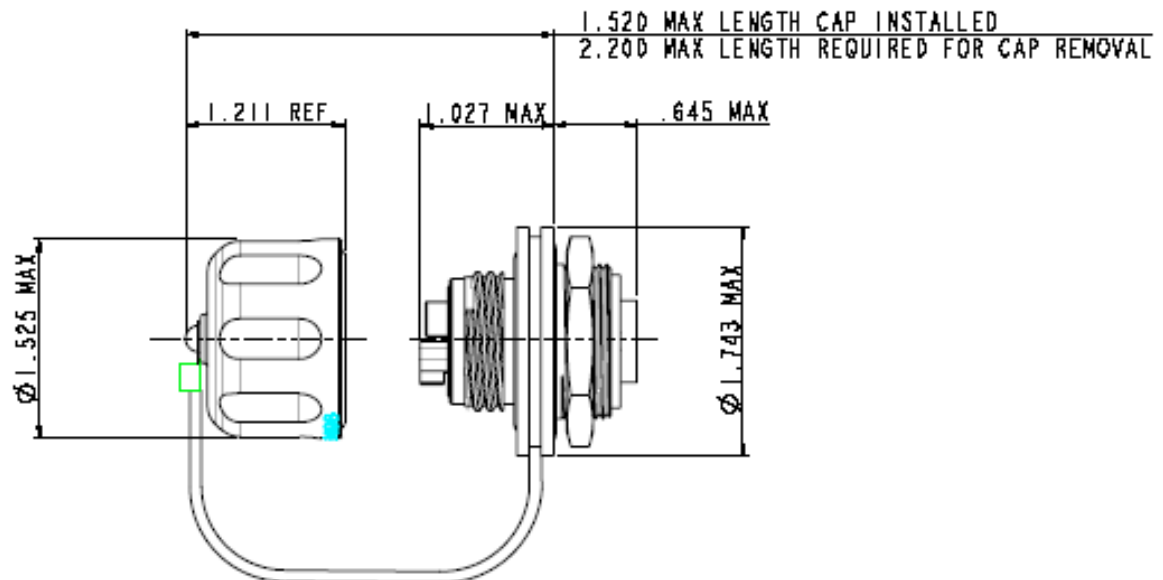
Mechanical Performance		
Test	Method	Details
Cable Retention	MIL-STD-1344A, Method 2009	1 minute, 182 Kg
Cable Sealing Flexing	MIL-STD-1344A, Method 2017, Test Procedure I	200 cycles
Crush Resistance	MIL-STD-1344A, Method 2008.1	1250 N
Impact	EIA-455-2 Method B (severe)	40 drops: 2.4m, 1.8m, 1.2m, 0.6m
Maintenance Ageing	MIL-STD-1344A, Method 2002	10 cycles
Vibration	DEF STAN 00-35, Part 3, Test M1	6 hours. 0.1g ² /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

TFOCAtwo Plug

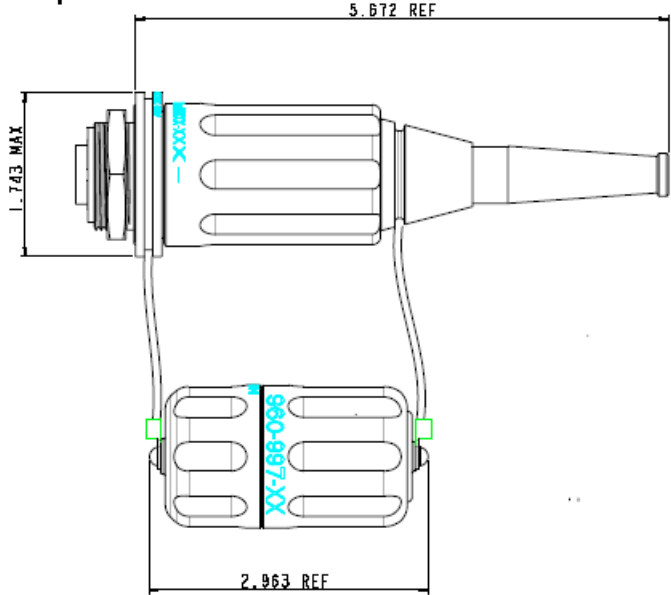


TFOCAtwo Receptacle

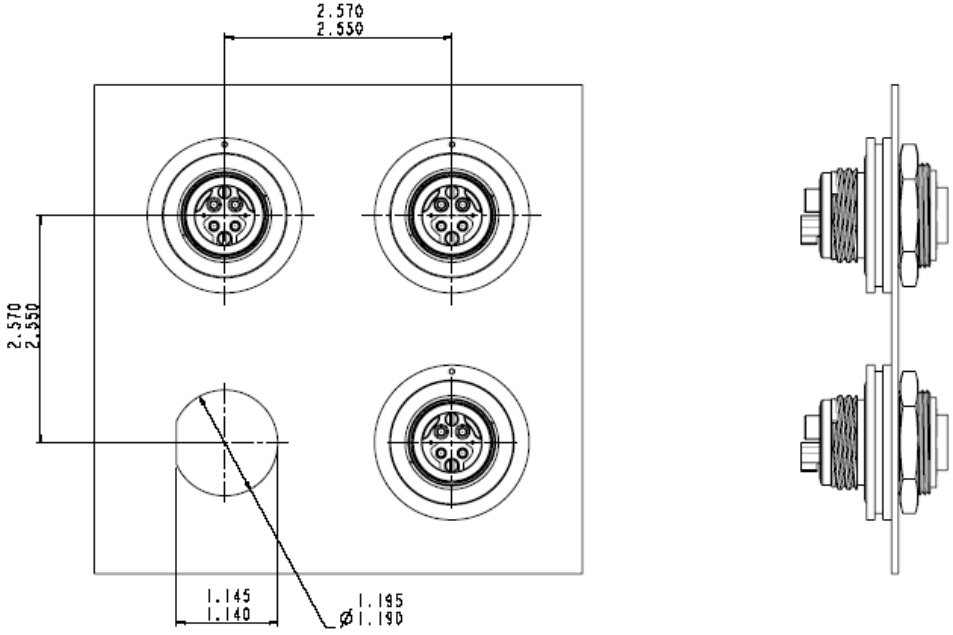


Dimensions are in inches and apply before plating

Connected Plug and Receptacle



Panel Layout Details



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

Notice: Products are sold subject to Amphenol's conditions of sale ("the standard conditions"). All specifications and statements contained herein are believed to be correct at the time of printing but no representation or warranty, express or implied, is given as to any specification or statement contained herein. Product specifications including performance characteristics are typical only and subject to deviation. Specifications are also subject to change without notice. Users should not assume that all safety measures are indicated or that other measures may not be required. No representation or warranty, express or implied, is given that any use of products (including any stated or suggested use) does not infringe any patent, registered design or other third party rights and no stated or suggested use of products can be taken to recommend any such infringement.

Amphenol Ltd
 Thanet Way
 Whitstable
 Kent CT5 3JF
 U.K.
 tel: 44 (0) 1227 773200
 fax: 44 (0) 1227 276571

Amphenol PCD
 2 Technology Drive
 Peabody,
 MA 01960
 U.S.A.
 tel: (978) 532 8800
 fax: (978) 532 6800

Amphenol Cable Shop
 1778 North Plano Road, #212
 Richardson
 TX 75081
 U.S.A.
 tel: (972) 744 9801
 fax: (972) 744 9022