

Amphenol

HMAtwo

Legacy Fibre Optic Connectors



Amphenol introduces the HMAtwo Series into the Harsh Environment product portfolio. This legacy hermaphroditic fibre optic lens connector facilitates the inter-connection of multiple identical fibre optic cable assemblies known as daisy chaining, thus eliminating the need for polarising the assemblies and the use of in-line adapters. Lens technology is less vulnerable to mud, dirt and other contaminants than the traditional physical contact technology. This allows rapid and reliable deployment of assemblies in extreme environments. The Connector is available in 1 to 4 way configurations for multi-mode fibres at both 850 and 1300nm applications and is inter-mateable/interchangeable with other manufacturers equivalent products.

The standard connector components are aluminium with a long life Hard Black anodise finish with the coupling ring featuring a protective "rubber" overmould. The connector has been designed for both factory and field termination directly onto standard tactical fibre optic cable without specialist lens termination tooling. The connector construction allows for both first line field repairs and return to base overhauls of both the connector and the Lens assembly.

Features

- Proven Expanded Beam technology
- Interchangeable and intermateable with alternative manufacturers products
- Maximum 1.5dB optical performance – Multimode / Singlemode
- Field cleanable and repairable
- Waterproof
- Singlemode available upon request

Applications

- Military
- Outside broadcast
- Industrial/Geophysical

Materials

- Hard Anodised Aluminium
- Aluminium Nickel Bronze
- Brass
- Stainless Steel

Amphenol

Visit our
Website @
www.amphenol.co.uk

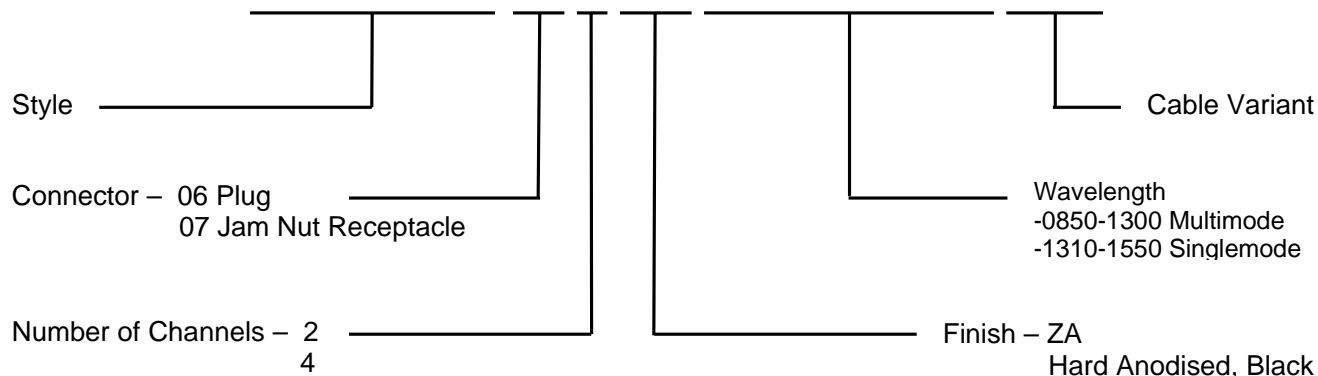
Technical Specifications

Environmental Performance	
Storage Temperature	-55 to +85°C
Operating Temperature	-40 to +70°C
Humidity	+65°C, 90% RH
Mechanical shock	100g, 6ms
Tensile strength	1750N (cable dependent)
Vibration	10-500hz, 0.75 amplitude @ 10g acceleration
Mating cycles	1000 cycles
Water Immersion	Up to 2M depth

Optical Performance	
Insertion Loss	62.5/125 @ 1300nm 1.0dB Typical 9/125 @ 1310nm 1.0dB Typical
Fibre Types	50/125, 62.5/125µm and 9/125µm
Cable Types / Variants	5.5mm OD Tactical 4 Core – 014 3mm OD Ruggedised Simplex -011 (Receptacle only) 900µm Buffered fibre – 040 (Receptacle only)

Connector Part Number Configuration

HMA-TWO-0XX-ZA-XXXX-XXXX-XXX



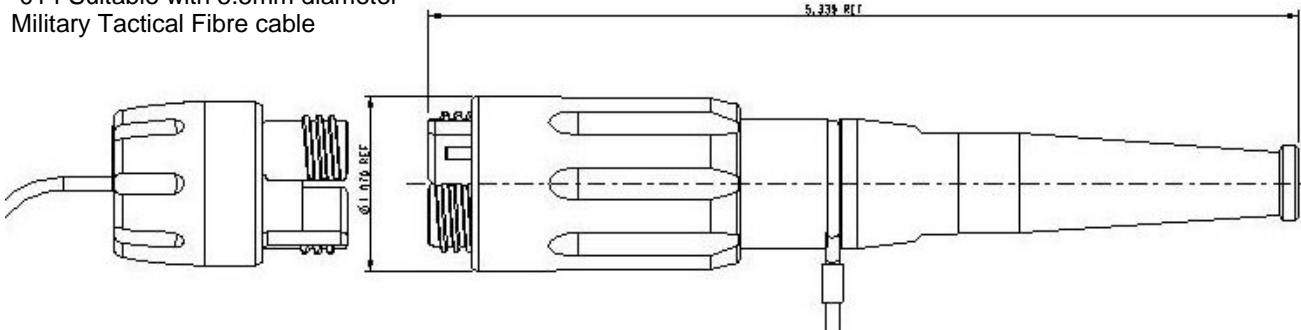
Connector Part Number Example:

HMAtwo 2ch Plug, Multimode to suit 5.5mm tactical cable :-

HMA-TWO-062-ZA-0850-1300-014

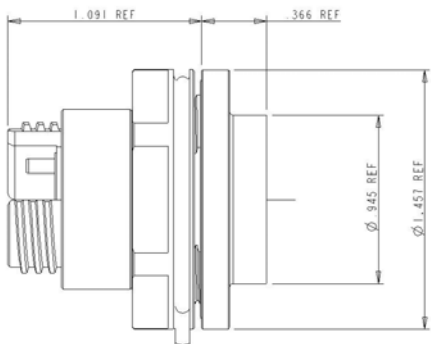
HMAtwo Plug

-014 Suitable with 5.5mm diameter Military Tactical Fibre cable

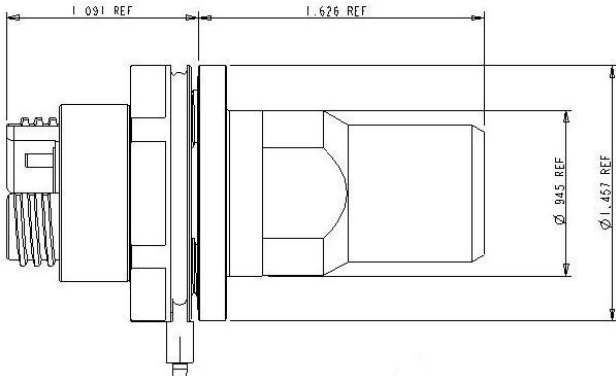


HMAtwo Jam Nut Receptacle

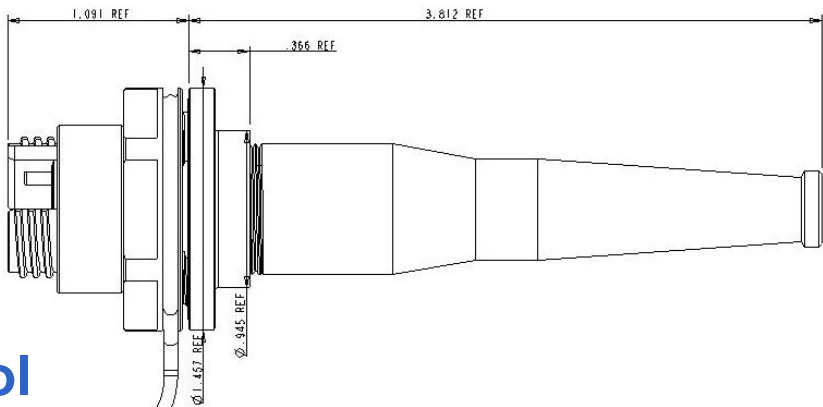
-040 Suitable with 900µm Buffered fibre



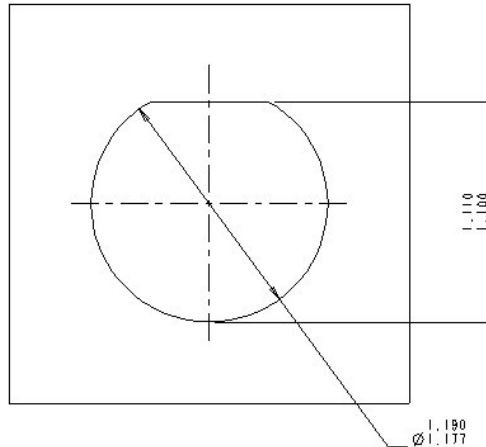
-011 Suitable with 2-3mm Simplex Ruggedised cable



-014 Suitable with 5.5mm diameter Military Tactical Fibre cable

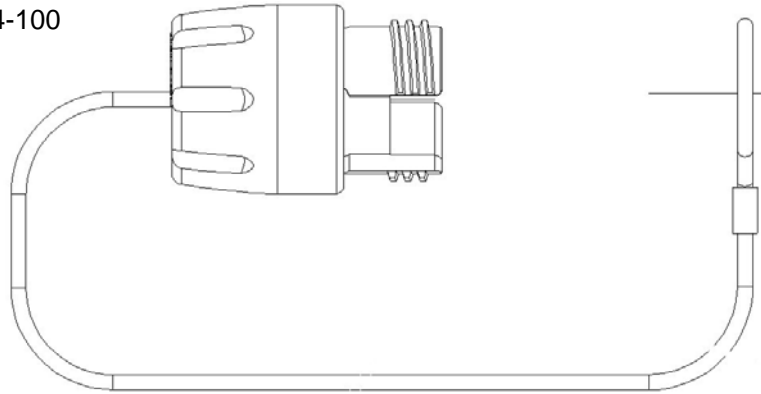


Panel Cut-Out details - Jam Nut Receptacle



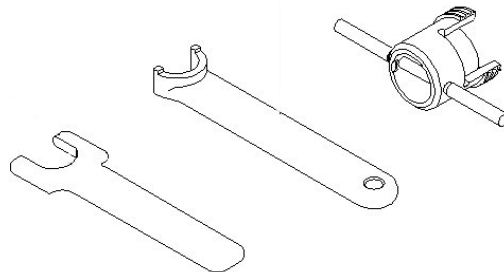
Accessories - Hermaphroditic Protective Cap

Part Number: 960-994-100



1.5mm Dia Cord
150mm Long

Termination 'Add-on' Tool Kit - Part Number: 927-100-5311



Amphenol Limited manufacture cable assemblies for all applications which can be supplied on field deployable drums. Please contact the Amphenol factory for part numbers and quotations

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