

## Hermaphroditic Connector with Lenses

MAIN CHARACTERISTICS



The Amphenol HCL Fibre Optic expanded beam connector is a hermaphroditic miniature connector for indoor and external systems. The flat front face of the connector is easy to clean.

This product offers high performance optical multichannel connections dust proof in a dense and lightweight design. It allows daisy chains between multiple pieces of equipment indoors or in outdoor environments.

The threaded antilocking coupling nut makes this hermaphroditic connector very resistant to vibration and shock.

### Technical description

- Small size (o.d. 22 mm) lens connector
- 2 and 4 channel Plugs, Pigtails and Harnesses
- 2 and 4 channel jam nut receptacles with 0,9mm or 1,6mm pigtails and compact rear allowing for high electronic density inside the panel
- Hermaphroditic interface
- Threaded coupling nut with antilocking system
- 2 and 4 channel products are intermateable
- Large expanded beams
- Easy to clean flat front face with recessed protected lenses
- Typical Insertion Loss : 1.2 dB @ 1300nm 50/125 fiber
- Durability : 1500 mating/unmating cycles
- Operating Temperature : -40°C, +85°C
- Water resistant
- Termination HCL tool kits available
- FTOS harness maintenance tool kits available
- HCL is interchangeable with the fiber to fiber connector HCFF
- Tactical drums and accessories available

### Applications

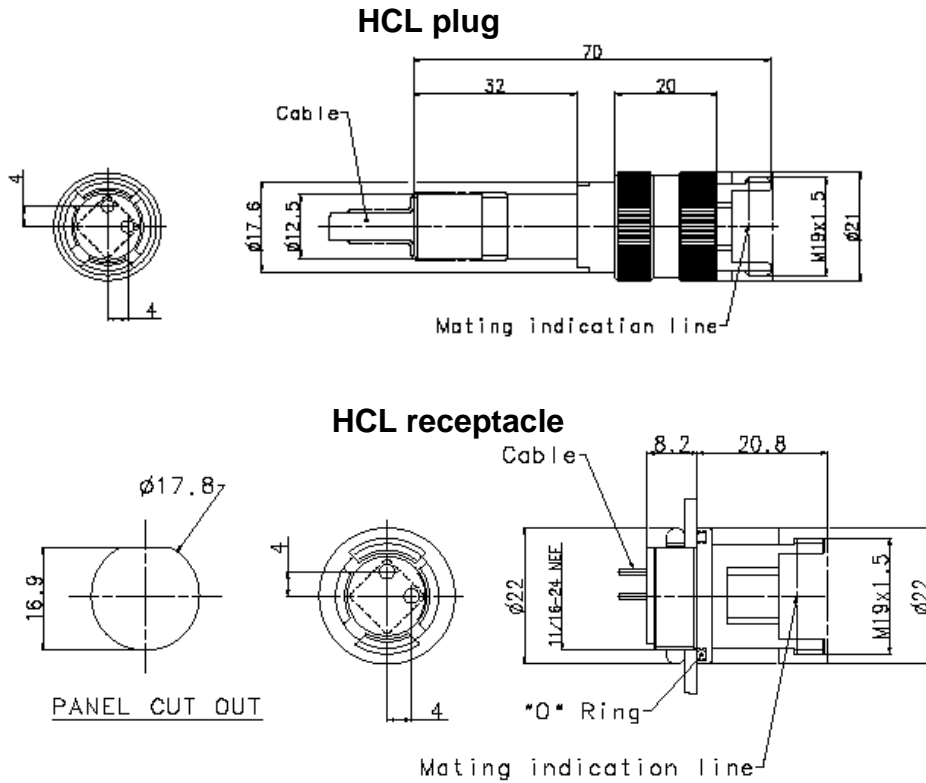
- Army, Navy and Airforce optical networks
- Light tactical transmission links
- Shelter equipment
- Base Stations
- Industrial machine networks

**Amphenol**

# HCL

# 976 Series

## Line Drawings (dimensions in mm)



## How to order :

**HCL - XXX - XX - X - XX - X - XX - XXX**

HCL : 976 series

Plug for tactical cable : 06M  
Front jam nut receptacle with pigtails : 07P

Straight backshell : 00

Number of channel  
2 channels : 2      4 channels : 4

PPC: Plug protective cap  
RPC: Receptacle protective cap

All cables are tight jacket.  
09 : O.D. buffered fiber 0.9 mm  
16 : O.D. 1.6 mm  
55 : O.D. tactical 5.5 mm  
Other cables possible.

Y : 1300 nm  
Z : 840 – 1300 nm

01 : 50/125 μm  
02 : 62.5/125 μm