



## HLMA CONNECTOR

# Amphenol



The HLM product series has been advanced. The product now utilises expanded beam technology, which facilitates better optical performance and ease of termination. The connector series is fully backward compatible to the HLM Series. This hermaphroditic fibre optic lens connector facilitates the inter-connection of multiple 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 in simplex, duplex, and quad styles.

Typical applications are deployable external cable assemblies in mining, oil rigs, mil comms etc, where connectors with no gender are required. 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.

### Product Highlights:

- Proven Expanded Beam technology
- Maximum 1.5dB optical performance
- Field cleanable and repairable
- Waterproof
- Singlemode available upon request

### Optical Specifications

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

### Environmental Specifications

Storage Temperature	-55°C to +85°C
Operating Temperature	-40°C 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

### Mechanical Specifications

Hard Anodised Aluminium
Aluminium Nickel Bronze
Brass
Stainless Steel

### Applications

Military
Outside Broadcast
Industrial/Geophysical

