ARMOURLUX F BEAM®

ArmourLux F BEAM® 2/4 Channel Junior HMA Plug to Plug assembly is our premium option for fibre optics in harsh environments. Utilising Expanded Beam technology, the connector is rugged, can be easily cleaned and being hermaphroditic, is simple and easy to connect.

F BEAM is a UK designed and manufactured connector, which has been developed over the years to deliver class leading optical performance. It is fully interoperable with other HMA Junior products from TE, Stratos, DiGiCo and others.

We use a cable based on MIL-C-85045 Military Standard for the ArmourLux series, which is extremely strong, lightweight and rugged. It's ideal for harsh environments, striking a balance between durability and portability. It has a high crush resistance yet remains flexible so its easy to deploy and retrieve. The F BEAM® expanded beam connectors in a 2 or 4 channel fibre are ideal for multimode and singlemode field deployable, harsh environment applications.





MILITARY GRADE CONNECTOR

Military grade F BEAM® connector designed to meet MIL83526 / MIL20/ MIL21.



RUGGED, BEND INSENSITIVE FIBRE

Flexible, bend insensitive tactical fibre designed for harsh environments.



MANUFACTURED IN THE UK

Products are manufactured in the UK and individually serialised for traceability.



HERMAPHRODITIC CONNECTORS

For daisy-chaining.



EASY CLEAN & CONNECT

Lens technology allows for easy clean and connect.

Applications

Our ArmourLux F BEAM® assembly is suitable for use in a wide range of applications including, but not limited to:

- Harsh environments
- · Outdoor broadcast
- Challenging, remote conditions



Technical Specification







F BEAM Jam Nut Bulkhead
- Strain Relief



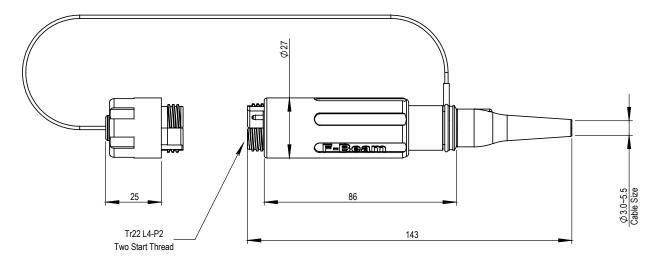
F BEAM Square Flange Bulkhead - Strain Relief

Technical Specification			
Optical Loss	Multimode (50/125 at 850/1300nm) Singlemode (9/125 at 1310/1550nm)	0.8dB typical (1.0dB max) 1.0dB typical (1.5dB max)	
Return Loss	Multimode (50/125 at 850/1300nm) Singlemode (9/125 at 1310/1550nm)	>23dB >32dB	
Operating Temperature	-40 to +70°C		
Storage Temperature	-55 to +85°C		
Water Immersion	15m for 24 hours		
Vibration Sinusoidal	10-500Hz 0.75 amplitude @10g		
Drop	1.2m x 500 off		
Bump	4000 bumps @ 30g		
Durability	x3000 matings		
Tensile	2000N cable dependent		

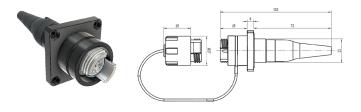
Reel Capacity			
Reel Type	2 Channel	4 Channel	
R2	141m	123m	
R3	277m	241m	
R9	447m	390m	
R10	710m	618m	
R6	906m	847m	
R7	1359m	1270m	

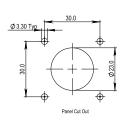
Technical Drawings

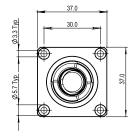
F BEAM Connector



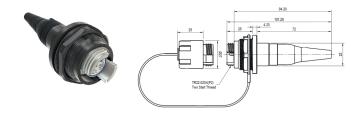
F BEAM Square Flange Bulkhead

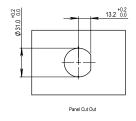






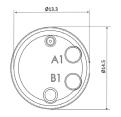
F BEAM Jam Nut D Bulkhead



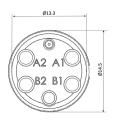




Optical Insert Arrangements



2 optical channels



4 optical channels

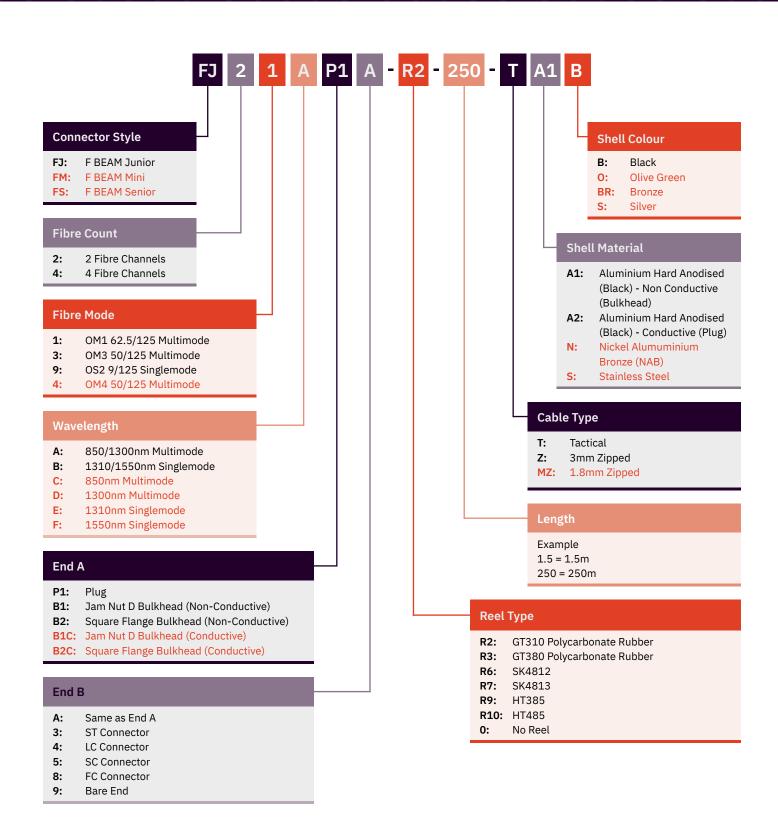
Buy with Confidence

All assemblies are made in the UK. We are an ISO9001 accredited company, where Quality and Customer Service are our highest priorities.

We're here to support you - whatever the question about fibre, we will help you!



Cable Assembly Part Number Configurator



Note: Options in red are available on request.

Please contact us for more information by calling ${\bf 01488~685800}$.



Why Choose Universal Networks?

Universal Networks are JOSCAR, Cyber Essentials and ISO9001 accredited, fibre deployable experts specialising in the design and delivery of custom made, rugged fibre solutions suitable for harsh environments. With over 25 years of experience, we have worked with a variety of companies operating in some of the most challenging conditions, including both the MOD and affiliated companies to the defence industry.

We manufacture in the UK where possible and deploy worldwide. We are passionate about finding the right solution for your requirements, so our knowledgeable team focus on understanding your project to ensure they recommend and supply the right product for your job. With a strong focus on customer service, along with in-house capabilities to manufacture and repair your cables, we are here to offer expert advice and guidance every step of the way.







For more information, visit us online at:

www.universalnetworks.com or call us on:

01488 685800









BEAM®



ArmourLux is a brand of Universal Networks UK Limited.

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