

TMC Illustris[™] **Expanded Beam Connector**

Deutsch's Expanded Beam Connector range is further enhanced by the introduction of the TMC Illustris™ connector. The TMC Illustris[™] offers superior Expanded Beam performance and provides an hermaphroditic connector solution with enhanced market leading optical performance alongside genuine capacity for field repairs.

The TMC Illustris[™] is suitable for both singlemode and multimode applications, and features easily accessible optical lenses for cleaning purposes. Typical applications include: Ground Radar Systems, Military Vehicles, Naval Systems, Aircraft Avionics Systems, Outside Broadcast, Motorsport and Industrial Machinery.



Key Features

- Field terminable / repairable
- Precision aligned expanded beam system ensures superior repeatable optical performance
- Rugged construction incorporating environmental sealing
- Easy access to optical lens to facilitate simple cleaning and maintenance
- Simple termination process and tooling
- Able to accommodate various sizes of singlemode and multimode fibre - (9/125, 50/125, 62.5/125) Able to accommodate various sizes of simplex cable (1.6mm - 5mm)
- Lense technology can be Wavelength tuned to application requirements

General Specification

Fibre Type:
Channels:

9/125µm, 50/125µm, 62.5/125µm* Dependant on harness requirements

Materials:

Hard Anodized Aluminium Stainless Steel Brass Moulded Materials - TPE

Optical Performance:

Insertion loss: Return loss:

Repeatability:

1.0-2.0dB Typical singlemode Greater than -25dB Better than 0.2dB

0.5-1.5dB Typical multimode

Temperature:

Operating temperature range -40°C to +85°C**

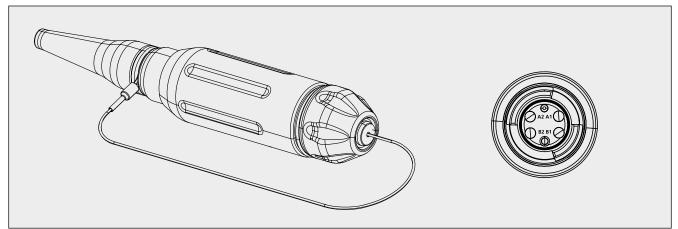
Durability:

Not less than 500 matings *For alternative cable sizes please contact technical sales **-55°C to +125°C available on request

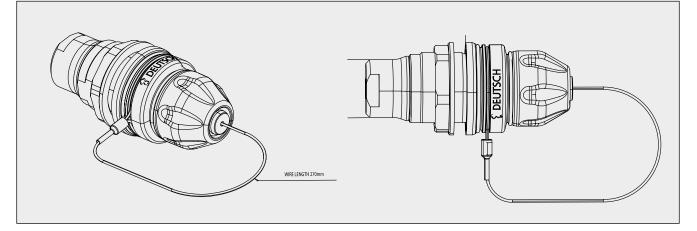
STEP

All dimensions in millimetres. To complete part number for ordering see 'ordering information'

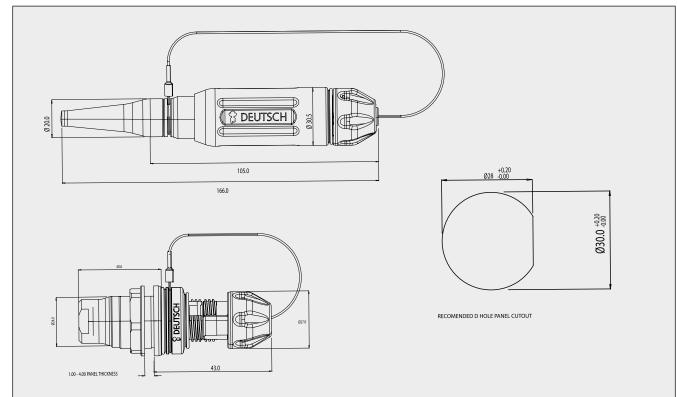
Plug - TMC-IL06E



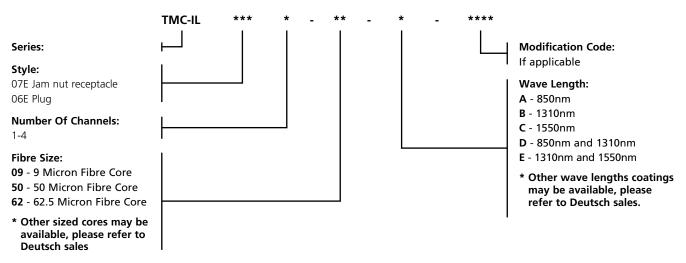
Jam Nut Receptacle - TMC-IL07E



Dimensional Information



Ordering Information



Example part number: TMC-IL06E2-9-C

TMC-IL plug, 2 Channel, Using 9 Micron Fibre for Wave Length 1550nm

Accessories / Essential Tooling

Please note: Alternative cable sizes can be offered, also additional tooling may be required for specific cable types, please consult technical sales for more information.

Deutsch Quality Approvals

- Civil Aviation Authority A8-1
- BS EN ISO 9001
- Military Spec Approvals 38999
- BS9000 and CECC
- Underwriters Laboratories.
- BS EN IS09001:2000 (BSI)
- BS/EN 9100:2003 (BSI)
- AS9100 Rev B (BSI)
- AS9120:2002 (BSI)
- EASA Part 21 Subpart G (CAA)
- BS9000 (BSI)
- Underwriters Laboratories (UL)
- Military Spec Approvals 38999 (DSCC)



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A STEP AHEAD