

DEUTSCH High Density Optical In-Line Dry-Mate Connector (ILC)

High Performance Multichannel Fiber Optic Connectors

DEUTSCH High Density Optical In-Line Dry-Mate Connector



RELIABLE TECHNOLOGY

- Derivative technology from multi-FO HP/HT Feedthrough System
- Stable performance for strain & temperature monitoring
- Low insertion loss and back reflection

KEY FEATURES

- Optimized for subsea flexibles and umbilical terminations
- Cost effective product for renewable systems
- Bulkhead receptacle offers full pressure integrity up to 450bar
- Connector can be terminated either with cable or hose
- All connectors are delivered with transportation and dust caps

OPTIONAL DEVELOPMENTS

- Fiber count up to 48
- ATEX or IECEx certification for explosion proof area

High Pressure/High Temperature Performance

Developed from subsea and high pressure/high temperature (HP/HT) fiber optic (FO) technology, this optical in-line dry-mate high density connector is suitable for applications where space and weight restrictions are an issue. This connector has Angled Physical Contacts (APC) offering very low insertion loss and low back reflection. Mechanical interface compatible with TE Connectivity (TE)'s DEUTSCH established dry-mate connector.

Markets

- Oil & Gas (Topside & Subsea)
- Marine Defense
- Oceanology & Marine Research
- Offshore Renewables

ENVIRONMENTAL CHARACTERISTICS

- **Rated Pressure:** up to 450 bar (6,526 psi)
- **Operating Temperature:** Receptacle up to -30°C to 121°C with HT fiber Plug - In accordance with the cable temperature range
- **Mate/ Demate Cycle:** 100 minimum

Note: Operating temperature and pressure can be dependent on the type of fiber, the cable rating and the connector configuration

MECHANICAL CHARACTERISTICS

- **12 (up to 24 FO)**
- **SM (single mode) and/or MM (multi-mode) Fiber Optics**

OPTICAL PERFORMANCE

- **Insertion Loss:** -0,5dB (<0,3dB typical and 0,8dB max)
- **Back Reflection:** < -45dB (Full APC)

MATERIALS

- **Housing:** AISI 316L / SuperDuplex
- **Coupling Parts:** Marine bronze

TE Components . . . TE Technology . . . TE Know-how . . .

AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem
SEACON | Rochester | DEUTSCH

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Standard Product Range

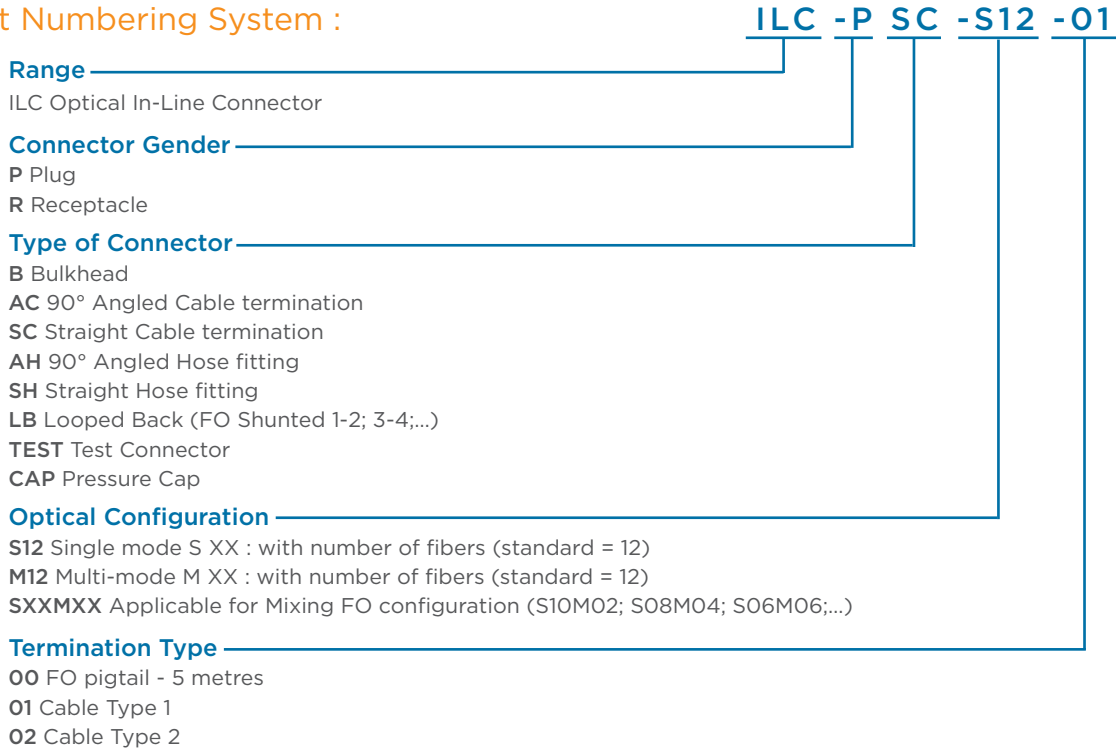


Examples

1. Straight Cable Termination Plug *ILC-PSC-S12*
2. Straight Cable Termination Receptacle *ILC-RSC-S12*
3. Straight Hose Fitting Plug *ILC-PSH-S12*
4. Straight Hose Fitting Receptacle *ILC-RSH-S12*
5. 90° Angled Hose Fitting Plug *ILC-PAH-S12*
6. 90° Angled Cable Termination Plug *ILC-PAC-S12*
7. 90° Angled Cable Termination Receptacle *ILC-RAC-S12*
8. 90° Angled Hose Fitting Plug Receptacle *ILC-RAH-S12*
9. Bulkhead Receptacle *ILC-RB-S12*
10. Test Connector Plug *ILC-PTEST-S12*
11. Test Connector Receptacle *ILC-RTEST-S12*
12. Plug Pressure Cap *ILC-PCAP*
13. Receptacle Pressure Cap *ILC-RCAP*



Part Numbering System :

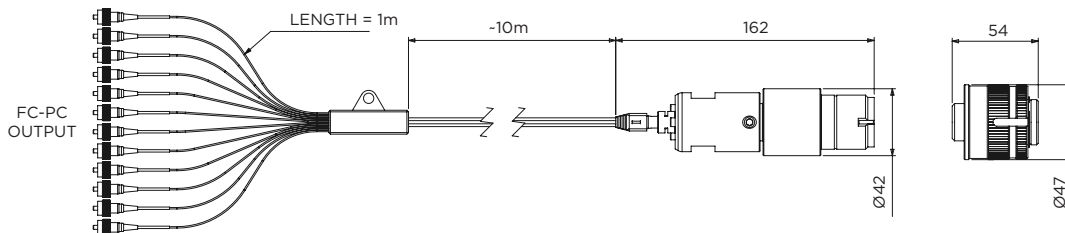


Examples

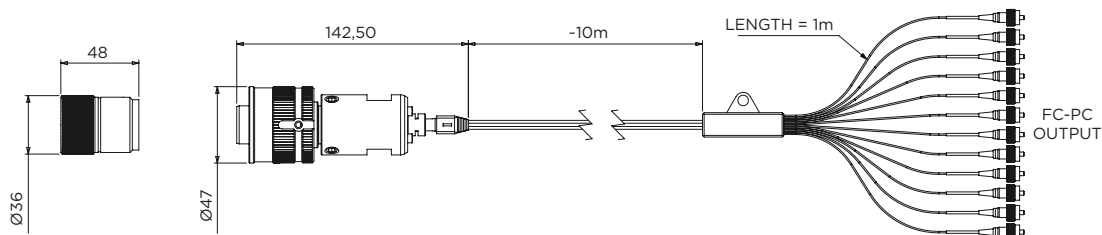
- Receptacle Bulkhead 12 Single Mode FO with pigtail ILC-RB-S12-00
- Standard Plug with Straight Cable 12 Multi-Mode FO ILC-PSC-M12-01
- Standard Plug with 90° Angle Hose with 6 Single Mode & 6 Multi-Mode FO ILC-PAH-S06M06-00
- Plug Test Connector 12 Single Mode FO - to be mated with Receptacle ILC-PTEST-S12

Product Dimensions

ILC 12FO Test Receptacle

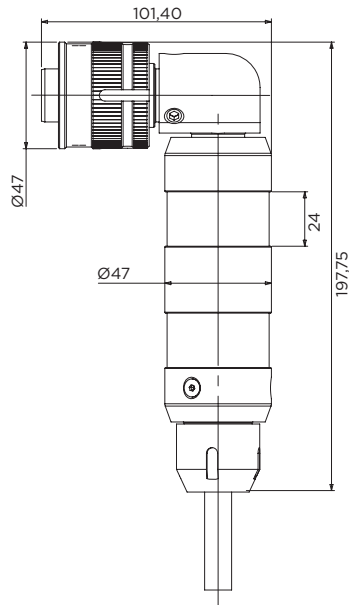


ILC 12FO Test Plug

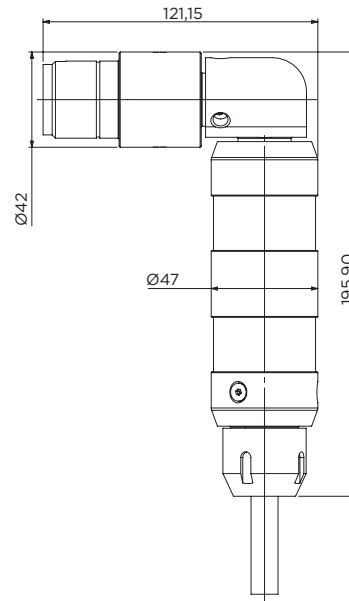




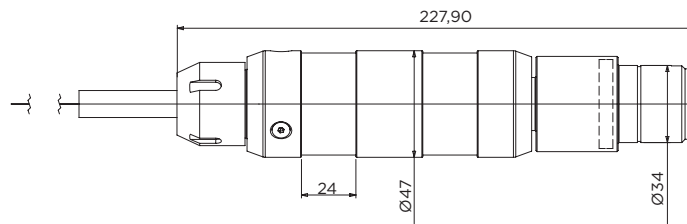
ILC Optical Plug Right Angle
Connector 12FO



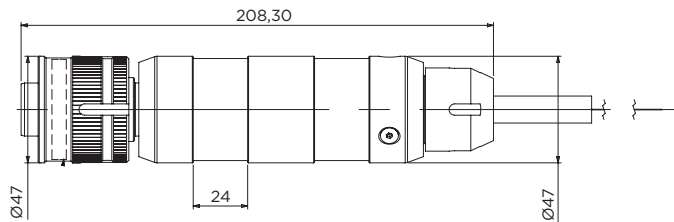
ILC Optical Receptacle Right Angle
Connector 12FO



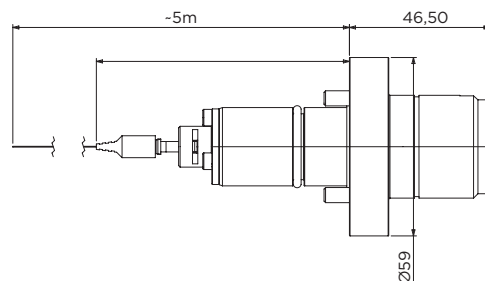
ILC Optical Receptacle Straight Connector 12FO



ILC Optical Plug Straight Connector 12FO



ILC Optical Receptacle Bulkhead Connector 12FO



LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com/industrial to chat with a Product Information Specialist.

Technical Support

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Consult TE for the latest dimensions and design specifications.