DEUTSCH
High Density Optical In-Line Dry-Mate Connector (ILC)
High Performance Multichannel Fiber Optic Connectors

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MARINE, OIL & GAS /// High Density Optical In-Line Dry-Mate Connector
DEUTSCH High Density Optical In-Line Dry-Mate Connector

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

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Empower Engineers to Solve Problems, Moving the World Forward.
High Density Optical In-Line Dry-Mate Connector

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 Hose Fitting Plug Receptacle ILC-RAH-S12
8. Bulkhead Receptacle ILC-RB-S12
9. Test Connector Plug ILC-PTEST-S12
10. Test Connector Receptacle ILC-RETEST-S12
11. Plug Pressure Cap ILC-PCAP
12. Receptacle Pressure Cap ILC-RCAP
Part Numbering System:

Range: ILC Optical In-Line Connector

Connector Gender:
P: Plug
R: Receptacle

Type of Connector:
B: Bulkhead
AC: 90° Angled Cable termination
SC: Straight Cable termination
AH: 90° Angled Hose fitting
SH: Straight Hose fitting
LB: Looped Back (FO Shunted 1-2; 3-4;...)
TEST: Test Connector
CAP: Pressure Cap

Optical Configuration:
S12: Single mode S XX : with number of fibers (standard = 12)
M12: Multi-mode M XX : with number of fibers (standard = 12)
SXXMXX: Applicable for Mixing FO configuration (S10M02; S08M04; S06M06;...)

Termination Type:
00: FO pigtail - 5 metres
01: Cable Type 1
02: Cable Type 2

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
te.com/support-center

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Consult TE for the latest dimensions and design specifications.