Oil & Gas Products

Fibre Optics in Harsh Environment Applications

CORNING

More and more, the oil and gas markets are turning to fibre optics for a number of applications. The advantages of larger bandwidths in a smaller footprint save space, weight, and installation time. The monitoring reliability for equipment performance, oil reserve levels, and environmental conditions make fibre optics an attractive option. Corning offers many products to assist in the procurement of natural resources.

1. Cables

Indoor/Outdoor Cables

xxxER4-T3122A20	Indoor/Outdoor Oil Resistant Light Armoured Cable, single-mode (OS2)
xxxERN-T3B22P2P	Indoor/Outdoor Oil Resistant Armoured Cable, single-mode (OS2)
xxxERY-T3122H2G	Loose Tube Steel-Armour Indoor/Outdoor Cable, single-mode (OS2)
xxxERVT3122H2G	Loose Tube Steel-Armour Double-Jacket Indoor/Outdoor Cable, single-mode (OS2)

Outdoor Cables

xxxER4-T3122A20	ALTOS™ Loose Tube Outdoor Cable (2.3 mm), single-mode (OS2)
xxxER5-T3N22A20	ALTOS Loose Tube Steel-Armour Double-Jacket Outdoor Cable (2.3 mm), polyamide overcoat, single-mode (OS2)
xxxERN-T3N22A20	ALTOS Loose Tube Moisture Barrier Steel-Armour Double-Jacket Outdoor Cable (2.3 mm), polyamide overcoat, single-mode (OS2)

Note: Additional fibre types available for cables listed above. xxx denotes 012-144 fibres.

2. Splice Closures

S45754-A3-A60	UCAO MFT Inline Splice Closure, mechanical end caps, up to 168-fibre capacity
S45754-A3-A17	UCAO Standard Inline Splice Closure, mechanical end caps, up to 60-fibre capacity
S46998-A22-A13	OptiDome™ 2 Dome Splice Closure, gel end cap, up to 48-fibre capacity

Note: Splice cassettes, covers, splice organisers, and heat-shrink/crimp splice protectors must be ordered separately.

3. Housings

Rack-Mountable Closet Connector Housings

CCH-01U	Holds two CCH adapter panels or splice modules with pigtails, 24-fibre capacity
CCH-02U	Holds four CCH adapter panels or splice modules with pigtails, 48-fibre capacity
CCH-04U	Holds 12 CCH adapter panels or splice modules with pigtails, 144-fibre capacity

Wall-Mountable Connector Housings

WCH-02P	Holds two CCH adapter panels or splice modules with pigtails (24-fibre capacity*)
SPH-01P	Holds one CCH adapter panel (12-fibre capacity*)
SPH-DIN-KIT	Bracket to mount SPH-01P on DIN/hat-rail
EDC-02P-NH	Environmental Distribution Center, NEMA 4X and IEC IP66 rated, holds two CCH adapter panels (24-fibre capacity*)
ICH-02P	Industrial Connector Housing, NEMA 3S and IEC IP64 rated, holds two CCH adapter panels (24-fibre capacity*)

*Additional fibre capacities are available.

4. Connectorisation

Splice Solution

Splice modules fit into a CCH housing with 3 m of prerouted 250 µm fibre. Required accessories included.

CCH-CS12-6T-P00RE	ST® Compatible Connectors, 12 fibre, single-mode (OS2)
CCH-CS12-A9-P00RE	LC Duplex Connectors, 12 fibre, single-mode (OS2)

Note: Additional connector styles, fibre types, and fiber counts are available.

4. Connectorisation (continued)

Field-Installable

FAN-OD25-12	Fan-Out Kit, 12-fibre outdoor, 0.6 m legs. Required when installing UniCam® connectors on loose tube cable.
95-200-51	ST® Compatible High-Performance UniCam Connector, single-mode (OS2)
95-200-99	LC High-Performance UniCam Connector, single-mode (OS2)
TKT-UNICAM-PFC	UniCam High-Performance Installation Tool Kit
TKT-UNICAM-PFC2	UniCam High-Performance Installation Tool Kit 2

Note: The UniCam connector is tested to extreme temperature, humidity, vibration, and mechanical testing of both TIA/EIA-568-C3 and Telcordia GR326.
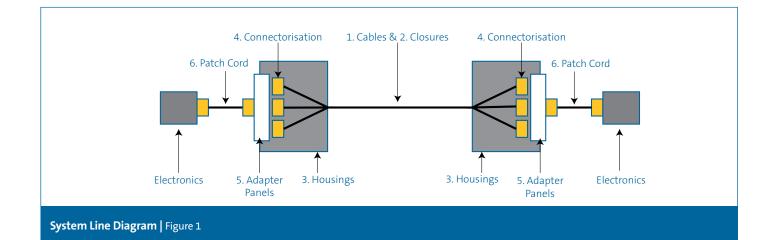
5. Adapter Panels

CCHE-CP12-19	ST Compatible Adapter Panel, 12 fibre, single-mode (OS2)
CCHE-CP12-04	LC Adapter Panel, 12 fibre, single-mode (OS2)

Note: Additional connector styles, fibre types, and fibre counts are available.

6. Fibre Optic Patch Cords, 2-Fibre Zipcord

616102R5Z31001M	ST Compatible to ST Compatible Patch Cord, single-mode (OS2), 1 m
616102R5Z31002M	ST Compatible to ST Compatible Patch Cord, single-mode (OS2), 2 m
616102R5Z31003M	ST Compatible to ST Compatible Patch Cord, single-mode (OS2), 3 m
616102R5Z31005M	ST Compatible to ST Compatible Patch Cord, single-mode (OS2), 5 m
040402R5Z20001M	LC Duplex to LC Duplex Patch Cord, single-mode (OS2), 1 m
040402R5Z20002M	LC Duplex to LC Duplex Patch Cord, single-mode (OS2), 2 m
040402R5Z20003M	LC Duplex to LC Duplex Patch Cord, single-mode (OS2), 3 m
040402R5Z20005M	LC Duplex to LC Duplex Patch Cord, single-mode (OS2), 5 m

Note: Additional connector styles, fibre types, and lengths are available.

System Line Diagram | Figure 1