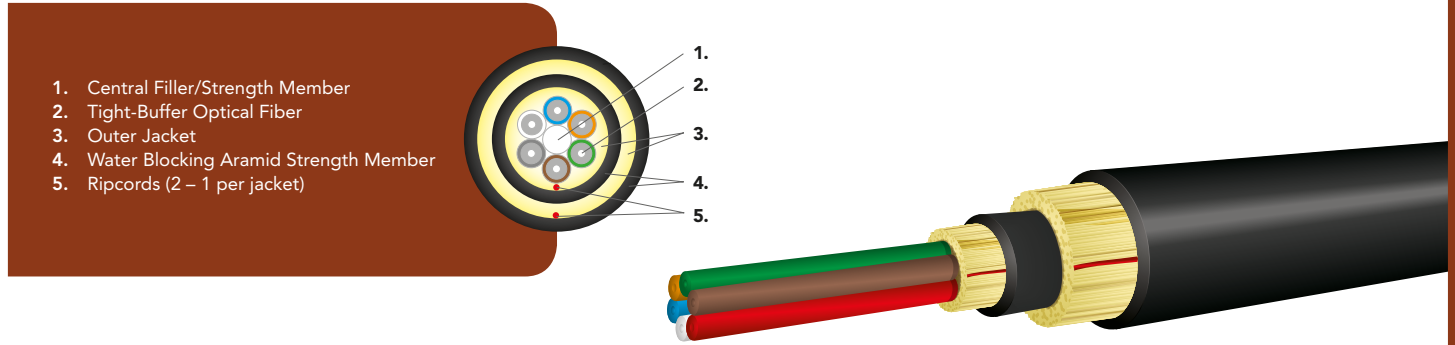


(5.5c) DNV-Certified Shipboard Cables



Applications

- Approved by Det Norske Veritas (DNV)
- Signaling, communication, and data transmission for fixed and deployable networks on board ships and offshore structures with applications including; Mobile Offshore Drilling Units (MODUs), Floating Production Storage and Offloading (FPSO), Tension Leg Platforms (TLP), Liquefied Natural Gas (LNG)



Features

- Low-Smoke Zero-Halogen (LSZH) cable
- Rugged cable for deck applications
- Flame-retardant
- 2- to 6-fiber double jacketed D-Series Distribution cable constructions are available
- Optical fiber types include 62.5/125, 50/125, and single-mode
- Available with 500µm primary acrylate-coated fiber for maximum mechanical and environmental protection of the optical fiber
- DNV Certified — DNV Type approval certificate No. E-14194
- Meets IEC standards for flame spread, smoke density and halogen content

Mechanical and Environmental Performance

| | |
|--|-------------------------|
| Operating temperature | -40°C to +85°C |
| Storage temperature | -55°C to +85°C |
| Installation temperature (cable temp.) | -10°C to +60°C |
| Flame retardancy | IEC 60332-1, 60332-3 |
| Impact resistance | IEC 60794-1-2-E4 Cat. A |
| Crush resistance | IEC 60794-1-2-E3 Cat. A |



Cable Characteristics: DNV Certified Shipboard Cables

| FIBER COUNT | DIAMETER MM (IN) | WEIGHT KG/KM (LBS/1,000') | TENSILE LOAD | | MINIMUM BEND RADIUS | |
|-------------|---------------------|------------------------------|----------------------|---------------------|----------------------|-------------------|
| | | | INSTALLATION N (LBS) | OPERATIONAL N (LBS) | INSTALLATION CM (IN) | LONG-TERM CM (IN) |
| 2-6 | 9.5 (0.37) | 95 (64) | 1,200 (270) | 400 (90) | 14.3 (3.2) | 9.5 (2.1) |

 (5.5c) DNV-Certified Shipboard Cables

General Cable and Fiber Specifications

| SPECIFICATION | TEST |
|-------------------|---|
| IEC 60794-1-2-E1 | Tensile Strength |
| IEC 60794-1-2-E3 | Crush |
| IEC 60794-1-2-E4 | Impact |
| IEC 60794-1-2-E6 | Repeated Bending |
| IEC 60794-1-2-E7 | Torsion |
| IEC 60794-1-2-E10 | Kink |
| IEC 60794-1-2-E11 | Cable Bend |
| IEC 60794-1-2-E11 | Cold Bend Test |
| IEC 60794-2-F5 | Water Penetration |
| IEC 60794-1-2-F1 | Temperature Cycling |
| IEC 60332-1 | Flame-Retardant |
| IEC 60332-3 | Test on Bunched Wires or Cables, Cat. A |

| SPECIFICATION | TEST |
|------------------------------|--|
| IEC 60754-1 | Halogen-Free Test |
| IEC 60754-2 | Determination of Degree of Acidity of Gases |
| IEC 61034-2 | Smoke Density |
| IEC 60811-1-1 Clause 9 | Mechanical Characteristics Without Aging |
| IEC 60811-1-2 Subclause 8.1 | Mechanical Characteristics After Aging in Air Oven |
| IEC 60811-3-1 Subclause 8.2 | Maximum Permissible Deformation |
| IEC 60811-3-1 | Heat Shock Test |
| IEC 60811-1-4 | Elongation Test |
| IEC 60811-1-4 Sub clause 8.5 | Cold Impact Test |

Ordering Information

Base cable part number is OC031016. The suffix indicated in the table is added to complete the part number based on the fiber type needed.

Example: 4-fiber DNV-Certified cable with WLS fiber = **OC031016-01**

| FIBER COUNT | FIBER TYPE | FIBER BUFFER | SUFFIX |
|-------------|------------|----------------|--------|
| 2 | WLS | Ultra-Fox | -13 |
| 2 | WST | Ultra-Fox Plus | -14 |
| 2 | ALS | Ultra-Fox | -15 |
| 2 | AST | Ultra-Fox Plus | -16 |
| 2 | SLX | Ultra-Fox | -17 |
| 2 | SLS | Ultra-Fox Plus | -18 |
| 4 | WLS | Ultra-Fox | -01 |
| 4 | WST | Ultra-Fox Plus | -02 |
| 4 | ALS | Ultra-Fox | -03 |
| 4 | AST | Ultra-Fox Plus | -04 |
| 4 | SLX | Ultra-Fox | -05 |
| 4 | SLS | Ultra-Fox Plus | -06 |
| 6 | WLS | Ultra-Fox | -07 |
| 6 | WST | Ultra-Fox Plus | -08 |
| 6 | ALS | Ultra-Fox | -09 |
| 6 | AST | Ultra-Fox Plus | -10 |
| 6 | SLX | Ultra-Fox | -11 |
| 6 | SLS | Ultra-Fox Plus | -12 |