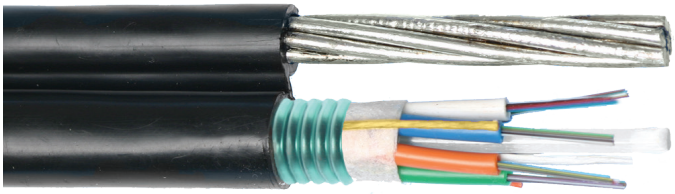
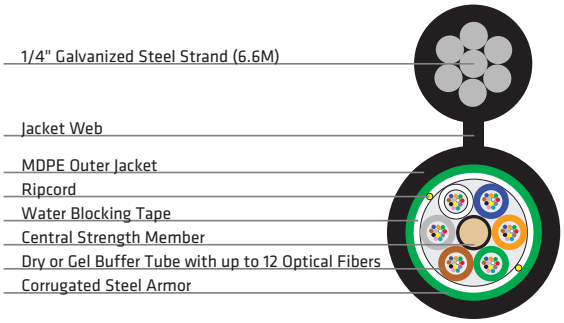
Prysmian Group

PRYSMIAN Draka

# AeroLink™ Figure 8 Armored

Self-supporting cable






## *Features and Benefits*

**Integral Stranded, Galvanized Steel Messenger**

- Self-supporting design requires no over-lashing, allowing installation in a single pass
- Standard 1/4" EHS (6.6M) galvanized strand
- Web, jacket and strand dimensions sized for standard hardware

**Dry Water-Blocking Technology**

- Available with gel or dry buffer tubes
- Permits rapid cable preparation and termination
- Water-blocking materials are easily removed

**Flexible Buffer Tubes**

- Superior kink resistance and increased flexibility
- Facilitates route management in closures
- Eliminates need for closure transportation tubes

**Medium Density Polyethylene Jacket**

- Low friction installation
- Excellent protection from environmental hazards
- Embedded stripe on outer jacket available for additional cable identification

**Sheath Markings**

- Provide positive identification and length verification
- Custom print available

**Reverse Oscillated Lay Stranding Method**

- Facilitates access of fibers

**Performance**

- Meets or exceeds the requirements of Telcordia GR-20, ICEA 640, and RUS PE90
- Tested in accordance with relevant EIA/TIA-455 series FOTPs for fiber optic cables

**Registered Supplier**

- ISO 9001, ISO 14001, TL 9000 and OHSAS 18001

RUS LISTED

| PERFORMANCE SPECIFICATIONS | | |
|---|---|---|
| **Bend Radius** | | |
| Dynamic | 20 x Cable OD | |
| Static | 10 x Cable OD | |
| **Tensile Rating** | **N** | **lbf** |
| MRCL with Messenger* | 14,923 | 3350 |
| Cable Installation w/o Messenger | 2,700 | 600 |
| Cable Residual w/o Messenger | 800 | 180 |
| **Crush Resistance** | **N/cm** | **lbf/in** |
| Short/ long Term | 220/110 | 125/63 |
| **Temperature Ratings** | **°C** | **°F** |
| Operation | -40 to +70 | -40 to +158 |
| Installation | -30 to +60 | -22 to +140 |
| Storage/Shipping | -40 to +75 | -40 to +167 |

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## *Nominal Design Parameters*

| Fiber Count | | | 2-60 | 62-72 | 74-96 | 98-144 | 146-216 |
|---|---|---|---|---|---|---|---|
| Buffer Tube Count | | | 5 | 6 | 8 | 12 | 18 |
| Max. Fiber/Tube | | | 12 | 12 | 12 | 12 | 12 |
| Buffer Tube OD | | (mm) | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | | (inches) | 0.098 | 0.098 | 0.098 | 0.098 | 0.098 |
| Cable OD | | (mm) | 11.8 x 23.5 | 12.6 x 24.3 | 14.3 x 26.0 | 17.6 x 29.3 | 17.9 x 29.6 |
| | | (inches) | 0.46 x 0.93 | 0.50 x 0.96 | 0.560 x 1.02 | 0.69 x 1.15 | 0.70 x 1.17 |
| Cable Weight \| Dry (F8D) | | (kg/km) | 350 | 363 | 404 | 480 | 480 |
| | | (lb/kft) | 235 | 244 | 271 | 232 | 323 |
| Cable Weight \| Gel (F8A) | | (kg/km) | 355 | 375 | 398 | 498 | 498 |
| | | (lb/kft) | 239 | 252 | 267 | 355 | 335 |
| Max. Length | | (m) | 10,693 | 8,726 | 7,267 | 5,102 | 4,975 |
| | | (ft) | 35,073 | 28,621 | 23,826 | 16,735 | 16,318 |
| Sag* | @750 lbs | (ft) | 0.89 | 0.95 | 1.03 | 1.27 | 1.25 |
| | @1000 lbs | (ft) | 0.67 | 0.72 | 0.77 | 0.95 | 0.94 |
| | @1250 lbs | (ft) | 0.53 | 0.57 | 0.62 | 0.76 | 0.75 |

*Typical Sag Values are for a 150 foot span installed at the listed tensions

## Ordering Guide

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

**Example: If you need a 36 count AeroLink™ Dry Figure-8 Armored Cable with G.652.D LWP Single-Mode fiber and 0.35/0.35/0.25 attenuation.**

| 1 LENGTH MARKINGS | | 2 PRODUCT FAMILY | 3 CONSTRUCTION | | 4 FIBER GROUPING | | 5 FIBER TYPE | | 6 FIBER COUNT | | 7 FIBER GRADE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| F | – | F8D | 1A1J | – | 12 | – | HB | – | 036 | – | E3 |

## PART NUMBER CONSTRUCTION

### 1 LENGTH MARKINGS

F = Feet or M = Meters

### 2 PRODUCT FAMILY

F8D = AeroLink™ Figure 8 (Dry Tubes)

F8A = AeroLink™ Figure 8 (Gel Tubes)

### 3 CONSTRUCTION

1A1J = Single Armor, Single Jacket

### 4 FIBER GROUPING

12 = 12f per unit or tube

Note: Please refer to the Fiber Code Addendum for additional fiber options, or contact us for help.

## FIBER INFORMATION

### 5 FIBER TYPE

| SINGLE-MODE |
|---|
| HB = Single-Mode (ITU G.652 C & D) Low Water Peak |
| ES = Enhanced Single-Mode (ITU G.652 C & D) |
| CE = Corning™ SMF28e+ Single-Mode |
| BB = BendBright Single-Mode (ITU G.657.A1 & G.652.D) |
| BX = BendBrightXS Single-Mode (ITU G.657.A2 & .B2, & G.652.D) |
| TU = TeraLight Ultra Single-Mode (ITU G.655 & G.656) |
| LE = LEAF NZDSF (ITU G.655) |

| MULTIMODE | Wavelength (nm) | Bandwidth (MHz) | 1 GbE Dist (m) | 10 GbE Dist (m) |
|---|---|---|---|---|
| G6 = OM1 (62.5µm) | 850/1300 | 200/500 | 300/550 | 33/___ |
| G5 = OM2+ BIF (50µm) | 850/1300 | 700/500 | 800 | 150/___ |
| G3 = OM3 BIF (50µm) | 850/1300 | 1500/500 | 1000 | 300/___ |
| G4 = OM4 BIF (50µm) | 850/1300 | 3500/500 | 1100 | 550/___ |

### 6 FIBER COUNT

002 to 216 fibers

### 7 FIBER GRADE

| SINGLE-MODE Attenuation (dB/km) | Wavelength (nm) | Fiber Type |
|---|---|---|
| E1 = 0.40/0.40/0.30 | 1310/1383/1550 | HB, ES, or CE |
| E3 = 0.35/0.35/0.25 | 1310/1383/1550 | HB, ES, CE, BB, or BX |
| NA = 0.40/0.25 | 1310/1550 | TeraLight Ultra Single-Mode |
| N1 = 0.25 | 1550 | LEAF Single-Mode |

| MULTIMODE Attenuation (dB/km) | Wavelength (nm) |
|---|---|
| M2 = 3.5/1.0 | 850/1300 |
| M3 = 3.0/1.0 | 850/1300 |

Other cable constructions and fiber performance grades available on request.



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