

|                                              |                                     |                |                |                |                                      |                |                |                |                |                |                |                 |                  |
|----------------------------------------------|-------------------------------------|----------------|----------------|----------------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|------------------|
| Fiber Count                                  | 12                                  | 24             | 48             | 72             | 96                                   | 144            | 144            | 192            | 288            | 288            | 432            | 576             | 864              |
| Tube Count                                   | 1                                   | 2              | 4              | 6              | 8                                    | 12             | 6              | 8              | 12             | 24             | 18             | 24              | 36               |
| Fibers per Tube                              | 12                                  | 12             | 12             | 12             | 12                                   | 12             | 24             | 24             | 24             | 12             | 24             | 24              | 24               |
| Outer Diameter [mm (in)]                     | 5.4<br>(0.21)                       | 5.4<br>(0.21)  | 5.4<br>(0.21)  | 5.4<br>(0.21)  | 6.2<br>(0.24)                        | 8.0<br>(0.32)  | 7.0<br>(0.27)  | 8.3<br>(0.32)  | 10.8<br>(0.42) | 9.6<br>(0.38)  | 11.0<br>(0.43) | 12.9<br>(0.50)  | 15.5<br>(0.61)   |
| Weight [kg/km (lb/1000 ft)]                  | 19.8<br>(13.3)                      | 20.3<br>(13.6) | 21.4<br>(14.3) | 22.6<br>(15.2) | 30.6<br>(20.6)                       | 56.4<br>(37.9) | 52.9<br>(35.6) | 62.8<br>(42.2) | 86.7<br>(58.3) | 78.7<br>(52.9) | 99.1<br>(66.6) | 124.0<br>(83.4) | 190.6<br>(128.1) |
| Max. Tensile Strength, Short-term /Long-term | 890 N / 260 N<br>(200 lbf / 58 lbf) |                |                |                | 1200 N / 420 N<br>(270 lbf / 94 lbf) |                |                |                |                |                |                |                 |                  |

|                               |                       |
|-------------------------------|-----------------------|
| Crush Resistance              | 500 N / 100 mm        |
| Min. Bend Radius-Installation | 20 times x cable O.D. |
| Min. Bend Radius-Operation    | 10 times x cable O.D. |



### General Specifications

|                       |                                   |
|-----------------------|-----------------------------------|
| Fiber Coating         | Colored                           |
| Fiber Type            | Single-Mode (OS2)                 |
| Tube Type             | Gel-filled                        |
| Tube Material         | PBTP (Polybutylene Terephthalate) |
| Strength Member       | FRP (Fiber Reinforced Plastic)    |
| Outer Jacket Material | PE (Polyethylene)                 |
| Outer Jacket Color    | Black                             |

### Fiber & Tube Coloring

|       |         |        |        |        |        |      |        |         |         |       |       |
|-------|---------|--------|--------|--------|--------|------|--------|---------|---------|-------|-------|
| 1     | 2       | 3      | 4      | 5      | 6      | 7    | 8      | 9       | 10      | 11    | 12    |
| Blue  | Orange  | Green  | Brown  | Slate  | White  | Red  | Black  | Yellow  | Violet  | Pink  | Aqua  |
| 13    | 14      | 15     | 16     | 17     | 18     | 19   | 20     | 21      | 22      | 23    | 24    |
| Blue* | Orange* | Green* | Brown* | Slate* | White* | Red* | Black* | Yellow* | Violet* | Pink* | Aqua* |

\*With one black stripe (black fiber & tube will have a natural stripe)

### Environmental Conditions

|                                  |                                    |
|----------------------------------|------------------------------------|
| Temperature Range – Installation | - 10°C to + 40°C ( 14°F to 104°F)  |
| Temperature Range - Storage      | - 40°C to + 70°C (- 40°F to 158°F) |
| Temperature Range - Operation    | - 40°C to + 70°C (- 40°F to 158°F) |

### Optical Characteristics (Single-Mode)

|                  |                |            |            |
|------------------|----------------|------------|------------|
| Fiber Category   | OS2 (G.657.A1) |            |            |
| Max. Attenuation | 0.36 dB/km     | 0.36 dB/km | 0.25 dB/km |
| Wavelengths      | 1310 nm        | 1383 nm    | 1550 nm    |

\*The values of fiber attenuation loss change are the results measured after all tests have been completed



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