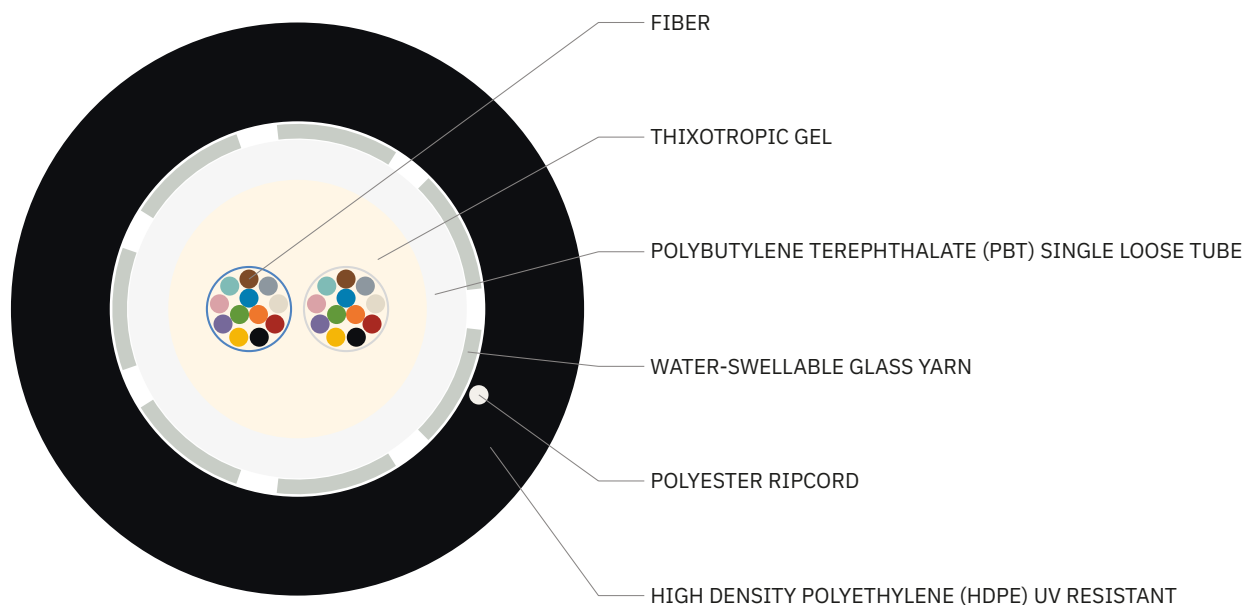


# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

## FIBER OPTIC CABLE DRAWING

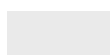


## FIBER OPTIC CABLE TUBE AND FIBER CORE COLORS

### Tube Color Scheme

1

Natural



### FIBER OPTIC CORE COLOR SCHEME

#### Fiber Optic Core Colors with White Separator

| 1    | 2      | 3     | 4     | 5     | 6     | 7   | 8     | 9      | 10     | 11   | 12   |
|------|--------|-------|-------|-------|-------|-----|-------|--------|--------|------|------|
| Blue | Orange | Green | Brown | Slate | White | Red | Black | Yellow | Violet | Rose | Aqua |
|      |        |       |       |       |       |     |       |        |        |      |      |

#### Fiber Optic Core Colors with Black Separator

| 1    | 2      | 3     | 4     | 5     | 6     | 7   | 8     | 9      | 10     | 11   | 12   |
|------|--------|-------|-------|-------|-------|-----|-------|--------|--------|------|------|
| Blue | Orange | Green | Brown | Slate | White | Red | Black | Yellow | Violet | Rose | Aqua |
|      |        |       |       |       |       |     |       |        |        |      |      |

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

## CHARACTERISTICS

|                                            |                                                                 |   |   |     |    |    |
|--------------------------------------------|-----------------------------------------------------------------|---|---|-----|----|----|
| Optical Fiber Core and Tube Color Standard | ANSI/TIA 598-D Color Coding                                     |   |   |     |    |    |
| Optical Fiber Type                         | G.652.D / G.655.D / G.657.A1 / G.657.A2 / OM1 / OM2 / OM3 / OM4 |   |   |     |    |    |
| Optical Fiber Dimensions                   | 9/125/245/260 μm / 50/125/245/260 μm / 62.5/125/245/260 μm      |   |   |     |    |    |
| Optical Fiber Count                        | 2                                                               | 4 | 6 | 8   | 12 | 24 |
| Optical fiber identification method        | Multi Loose Tube                                                |   |   |     |    |    |
| Number of Bundles                          | 2                                                               |   |   |     |    |    |
| Cable Type                                 | Single Loose Tube                                               |   |   |     |    |    |
| Tube Material                              | Polybutylene Terephthalate (PBT)                                |   |   |     |    |    |
| Tube Diameter (mm)                         | 3.4                                                             |   |   | 4.2 |    |    |
| Tube Filling Compound Material             | Thixotropic Gel                                                 |   |   |     |    |    |
| Active Tube Count                          | 1                                                               |   |   |     |    |    |
| Single Loose Tube Tube Color               | Natural                                                         |   |   |     |    |    |
| Tensile Strength                           | 1200 N                                                          |   |   |     |    |    |
| Dielectric Tensile Strength Member         | Water-swellaable Glass Yarn                                     |   |   |     |    |    |
| Jacket Strip Method                        | 1 Polyester Ripcord                                             |   |   |     |    |    |
| Jacket Material                            | High Density Polyethylene (HDPE) UV resistant                   |   |   |     |    |    |
| Jacket Color                               | Black                                                           |   |   |     |    |    |
| Jacket Wall Thickness                      | 1,35 mm                                                         |   |   |     |    |    |
| Outer Jacket Marking Method                | Inkjet marking                                                  |   |   |     |    |    |
| Outer Jacket Marking Area                  | One side                                                        |   |   |     |    |    |
| Outer Jacket Marking Application           | Applied in one meter intervals                                  |   |   |     |    |    |
| Nominal Cable Diameter (mm)                | 7,3                                                             |   |   | 7,5 |    |    |
| Net Cable Weight (kg/km)                   | 43                                                              |   |   | 50  |    |    |
| Reel Length                                | 2000 meters %±5                                                 |   |   |     |    |    |

ETK KABLO 2025 SLT-NMA-SJ-(GY12) FIBER OPTIC CABLE <LENGTH MARKING IN METERS>

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

## MECHANICAL CHARACTERISTICS (CABLED)

| Test                     | Reference Standard | Specified Value            |
|--------------------------|--------------------|----------------------------|
| Maximum Tensile Strength | IEC 60794-1-21-E1  | ≥ 1200 N                   |
| Crush Resistance         | IEC 60794-1-21-E3  | 1500 N/100 mm (15 minutes) |

## CHEMICAL CHARACTERISTICS

|       |                                                           |
|-------|-----------------------------------------------------------|
| RoHS  | Free of hazardous substances according to RoHS regulation |
| REACH | Safe to use according to REACH regulation                 |

## TEMPERATURE RANGE (CABLED)

|                |                 |
|----------------|-----------------|
| Transportation | -40 °C to 70 °C |
| Storage        | -40 °C to 70 °C |
| Installation   | -30 °C to 60 °C |
| Operation      | -40 °C to 70 °C |

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

Low water peak single-mode optical fiber, made by the vapor phase axial deposition (VAD) method, which enables customer to construct high performance wired network for voice, video and/or data transmission.

The fiber, made of a germanium doped silica core and a silica cladding, is in compliance with ITU-T G.652 A, B, C and D.

## FIBER MATERIALS

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Core Material     | Silica (SiO <sub>2</sub> ) Doped with Germanium Dioxide (GeO <sub>2</sub> ) |
| Cladding Material | Pure silica (SiO <sub>2</sub> )                                             |
| Coating Material  | Dual layers of UV-cured acrylate                                            |

## DIMENSIONS

|                                        |                |               |
|----------------------------------------|----------------|---------------|
| Mode Field Diameter                    | at 1310 nm     | 9.2 ± 0.4 μm  |
|                                        | at 1550 nm     | 10.3 ± 0.5 μm |
| Cladding Diameter                      | 125.0 ± 0.5 μm |               |
| Coating Diameter (Uncolored)           | 245 ± 5 μm     |               |
| Core/Cladding Concentricity Error      | ≤ 0.4 μm       |               |
| Cladding Non-circularity               | ≤ 0.5 %        |               |
| Coating - Cladding Concentricity Error | ≤ 12 μm        |               |
| Fiber Curl Radius                      | ≥ 4.0 m        |               |

## OPTICAL CHARACTERISTICS

|                                              |                                   |                            |
|----------------------------------------------|-----------------------------------|----------------------------|
| Attenuation Coefficient                      | at 1310 nm                        | ≤ 0.334 dB/km              |
|                                              | at 1383 nm                        | ≤ 0.314 dB/km <sup>1</sup> |
|                                              | at 1550 nm                        | ≤ 0.194 dB/km              |
|                                              | at 1625 nm                        | ≤ 0.224 dB/km              |
| Point Discontinuity                          | at 1310 nm / 1550 nm              | ≤ 0.05 dB                  |
| Cable Cut-off Wavelength (λ <sub>cc</sub> )  | < 1260 nm                         |                            |
| Zero-dispersion Wavelength (λ <sub>o</sub> ) | 1300nm ≤ λ <sub>o</sub> ≤ 1324 nm |                            |
| Zero-dispersion Slope (S <sub>o</sub> )      | ≤ 0.09 ps/(nm <sup>2</sup> ·km)   |                            |
| Chromatic Dispersion Coefficient             | at 1310 nm                        | ≤ 3.5 ps/(nm·km)           |
|                                              | at 1550 nm                        | ≤ 17 ps/(nm·km)            |
|                                              | at 1625 nm                        | ≤ 22 ps/(nm·km)            |
| Maximum Individual Fiber PMD                 | ≤ 0.2 ps/√km                      |                            |
| Fiber PMD Link Design Value                  | ≤ 0.08 ps/√km                     |                            |

1. ATTENUATION INCREASE DUE TO HYDROGEN AGING AT THIS WAVELENGTH WILL BE 0.01 DB/KM OR LESS IN ACCORDANCE WITH IEC IEC60793-2-50 TEST PROCEDURE

• THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

## MECHANICAL CHARACTERISTICS

|                          |                               |                     |
|--------------------------|-------------------------------|---------------------|
| Proof Stress Level       | 0.86 GPa (1.2%, 120 kpsi)     |                     |
| Cladding Material        | Ø=32 mm, 1 turn at 1550 nm    | ≤ 0.05 dB           |
|                          | Ø=50 mm, 100 turns at 1310 nm |                     |
|                          | Ø=50 mm, 100 turns at 1550 nm |                     |
|                          | Ø=60 mm, 100 turns at 1625 nm |                     |
| Coating Strip Force (F)  | peak                          | 1.3 N ≤ F ≤ 8.9 N   |
|                          | average                       | 1.0 N ≤ F ≤ 5.0 N   |
| Dynamic Tensile Strength | median; 0.5 m, unaged         | ≥3.8 Gpa (550 kpsi) |
|                          | median; 0.5 m, aged           | ≥3.0 Gpa (440 kpsi) |
| Fatigue                  | nominal value                 | 20                  |

## ENVIRONMENTAL CHARACTERISTICS <sup>2</sup>

|                              |                              |              |
|------------------------------|------------------------------|--------------|
| Temperature Cycling          | -60 °C to 85 °C              | ≤ 0.05 dB/km |
| Temperature Humidity Cycling | -10 °C to 85 °C at 85% R. H. |              |
| Water Immersion              | at 23 °C ± 2 °C              |              |
| Heat Aging                   | at 85 °C ± 2 °C              |              |
| Damp Heat                    | 85 °C at 85% R. H.           |              |

## PERFORMANCE CHARACTERISTICS

|                                                  |                      |       |
|--------------------------------------------------|----------------------|-------|
| Effective Group Index of Refraction<br>$N_{eff}$ | at 1310 nm / 1383 nm | 1.466 |
|                                                  | at 1550 nm           | 1.467 |
|                                                  | at 1625 nm           | 1.470 |

2. INDUCED ATTENUATION AT 1310 NM, 1550 NM AND 1625 NM  
• THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

Non-Zero dispersion shifted (NZ-DSF) single-mode optical fiber, made by the vapor phase axial deposition (VAD) method, which enables customer to construct high-capacity, ultra long haul WDM system.

This fiber allows for easier deployment of WDM in metropolitan areas, and increases the capacity of fiber in WDM systems throughout the wavelength region between 1460nm and 1625nm (S, C, L-bands).

NZ-DSF has the ability to increase transmission speeds of systems up to 10 Gb/s and 40 Gb/s and also has superior polarization mode dispersion performance.

## FIBER MATERIALS

|                   |                                          |
|-------------------|------------------------------------------|
| Core Material     | Germanium doped silica                   |
| Cladding Material | Silica, step index and matched clad type |
| Coating Material  | Dual layers of UV-cured acrylate         |

## DIMENSIONS

|                                        |                             |                           |
|----------------------------------------|-----------------------------|---------------------------|
| Mode Field Diameter                    | at 1550 nm                  | $9.2 \pm 0.4 \mu\text{m}$ |
| Cladding Diameter                      | $125.0 \pm 0.7 \mu\text{m}$ |                           |
| Coating Diameter (Uncolored)           | $242 \pm 5 \mu\text{m}$     |                           |
| Core/Cladding Concentricity Error      | $\leq 0.5 \mu\text{m}$      |                           |
| Cladding Non-circularity               | $\leq 0.7 \%$               |                           |
| Coating - Cladding Concentricity Error | $\leq 12 \mu\text{m}$       |                           |
| Fiber Curl Radius                      | $\geq 4.0 \text{ m}$        |                           |

## OPTICAL CHARACTERISTICS

|                                             |                        |                                                        |
|---------------------------------------------|------------------------|--------------------------------------------------------|
| Attenuation Coefficient                     | at 1550 nm             | $\leq 0.22 \text{ dB/km}$                              |
|                                             | at 1625 nm             | $\leq 0.25 \text{ dB/km}$                              |
| Point Discontinuity                         | at 1550 nm             | $\leq 0.05 \text{ dB}$                                 |
| Cable Cut-off Wavelength ( $\lambda_{cc}$ ) | $\leq 1450 \text{ nm}$ |                                                        |
| Chromatic Dispersion Coefficient            | at 1530 ~ 1565 nm      | $2.0 \sim 6.0 \text{ ps}/(\text{nm} \cdot \text{km})$  |
|                                             | at 1565 ~ 1625 nm      | $4.5 \sim 11.5 \text{ ps}/(\text{nm} \cdot \text{km})$ |
| Fiber PMD Value                             | for individual value   | $\leq 0.15 \text{ ps}/\sqrt{\text{km}}$                |
|                                             | for link value         | $\leq 0.1 \text{ ps}/\sqrt{\text{km}}$                 |

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

## MECHANICAL CHARACTERISTICS

|                                      |                               |                   |
|--------------------------------------|-------------------------------|-------------------|
| Proof Stress Level                   | 0.86 GPa (1.2%, 120 kpsi)     |                   |
| Bending Induced Attenuation          | Ø=32 mm, 1 turn at 1550 nm    | ≤ 0.5 dB          |
|                                      | Ø=32 mm, 1 turn at 1625 nm    |                   |
|                                      | Ø=60 mm, 100 turns at 1550 nm |                   |
|                                      | Ø=60 mm, 100 turns at 1625 nm |                   |
| Coating Strip Force (F)              | peak                          | 1.3 N ≤ F ≤ 8.9 N |
| Dynamic fatigue resistance parameter | ≥ 20                          |                   |

## ENVIRONMENTAL CHARACTERISTICS <sup>1</sup>

|                              |                    |          |
|------------------------------|--------------------|----------|
| Temperature Cycling          | -60 °C to 85 °C    | ≤ 0.5 dB |
| Temperature Humidity Cycling | 85 °C at 85% R. H. |          |
| Water Immersion              | at 23 °C           |          |
| Heat Aging                   | at 85 °C           |          |

1. INDUCED ATTENUATION AT 1350NM AND 1550 NM

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

## FIBER MATERIALS

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Core Material     | Silica (SiO <sub>2</sub> ) Doped with Germanium Dioxide (GeO <sub>2</sub> ) |
| Cladding Material | Pure silica (SiO <sub>2</sub> )                                             |
| Coating Material  | Dual layers of UV-cured acrylate                                            |

## DIMENSIONS

|                                        |                |               |
|----------------------------------------|----------------|---------------|
| Mode Field Diameter                    | at 1310 nm     | 9.0 ± 0.4 µm  |
|                                        | at 1550 nm     | 10.1 ± 0.5 µm |
| Cladding Diameter                      | 125.0 ± 0.7 µm |               |
| Coating Diameter (Uncolored)           | 242 ± 7 µm     |               |
| Core/Cladding Concentricity Error      | ≤ 0.5 µm       |               |
| Cladding Non-circularity               | ≤ 0.7 %        |               |
| Coating - Cladding Concentricity Error | ≤ 12 µm        |               |
| Coating Non-circularity                | ≤ 5 %          |               |
| Fiber Curl Radius                      | ≥ 4.0 m        |               |

## OPTICAL CHARACTERISTICS

|                                              |                                   |                   |
|----------------------------------------------|-----------------------------------|-------------------|
| Attenuation Coefficient                      | at 1310 nm                        | 0.33 – 0.35 dB/km |
|                                              | at 1383 nm <sup>1</sup>           | 0.32 – 0.35 dB/km |
|                                              | at 1550 nm                        | 0.19 – 0.21 dB/km |
|                                              | at 1625 nm                        | 0.20 – 0.23 dB/km |
| Point Discontinuity                          | at 1310 nm / 1550 nm              | ≤ 0.05 dB         |
| Cable Cut-off Wavelength (λ <sub>cc</sub> )  | < 1260 nm                         |                   |
| Zero-dispersion Wavelength (λ <sub>o</sub> ) | 1300nm ≤ λ <sub>o</sub> ≤ 1322 nm |                   |
| Zero-dispersion Slope (S <sub>o</sub> )      | ≤ 0.09 ps/(nm <sup>2</sup> ·km)   |                   |
| Chromatic Dispersion Coefficient             | at 1310 nm                        | ≤ 3 ps/(nm·km)    |
|                                              | at 1550 nm                        | ≤ 18 ps/(nm·km)   |
|                                              | at 1625 nm                        | ≤ 22 ps/(nm·km)   |
| Maximum Individual Fiber PMD                 | ≤ 0.1 ps/√km                      |                   |
| Fiber PMD Link Design Value                  | ≤ 0.06 ps/√km                     |                   |

1. ATTENUATION INCREASE DUE TO HYDROGEN AGING AT THIS WAVELENGTH WILL BE 0.01 DB/KM OR LESS IN ACCORDANCE WITH IEC IEC60793-2-50 TEST PROCEDURE  
• THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

## MECHANICAL CHARACTERISTICS

|                             |                              |                      |
|-----------------------------|------------------------------|----------------------|
| Proof Stress Level          | 0.70 GPa (1.0%, 100 kpsi)    |                      |
| Bending Induced Attenuation | Ø=10 mm, 1 turn at 1550 nm   | ≤ 0.75 dB            |
|                             | Ø=10 mm, 1 turn at 1625 nm   | ≤ 1.50 dB            |
|                             | Ø=15 mm, 10 turns at 1550 nm | ≤ 0.25 dB            |
|                             | Ø=15 mm, 10 turns at 1625 nm | ≤ 1.00 dB            |
| Coating Strip Force (F)     | peak                         | 1.2 N ≤ F ≤ 8.9 N    |
|                             | average                      | 1.0 N ≤ F ≤ 3.0 N    |
| Dynamic Tensile Strength    | median; 0.5 m, unaged        | ≥ 3.8 Gpa (550 kpsi) |
|                             | median; 0.5 m, aged          | ≥ 3.8 Gpa (550 kpsi) |
| Fatigue                     | nominal value                | 20                   |

## ENVIRONMENTAL CHARACTERISTICS <sup>2</sup>

|                              |                              |              |
|------------------------------|------------------------------|--------------|
| Temperature Cycling          | -60 °C to 85 °C              | ≤ 0.05 dB/km |
| Temperature Humidity Cycling | -10 °C to 85 °C at 98% R. H. |              |
| Water Immersion              | at 23 °C, 14 days            |              |
| Dry Heat                     | at 85 °C, 30 days            |              |
| Damp Heat                    | 85 °C at 85% R. H., 30 days  |              |

## PERFORMANCE CHARACTERISTICS

|                                                  |            |       |
|--------------------------------------------------|------------|-------|
| Effective Group Index of Refraction<br>$N_{eff}$ | at 1310 nm | 1.467 |
|                                                  | at 1550 nm | 1.468 |
|                                                  | at 1625 nm |       |

2. INDUCED ATTENUATION AT 1310 NM, 1550 NM AND 1625 NM  
• THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

## FIBER MATERIALS

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Core Material     | Silica (SiO <sub>2</sub> ) Doped with Germanium Dioxide (GeO <sub>2</sub> ) |
| Cladding Material | Pure silica (SiO <sub>2</sub> )                                             |
| Coating Material  | Dual layers of UV-cured acrylate                                            |

## DIMENSIONS

|                                        |                |              |
|----------------------------------------|----------------|--------------|
| Mode Field Diameter                    | at 1310 nm     | 8.8 ± 0.4 μm |
|                                        | at 1550 nm     | 9.8 ± 0.5 μm |
| Cladding Diameter                      | 125.0 ± 0.7 μm |              |
| Coating Diameter (Uncolored)           | 242 ± 7 μm     |              |
| Core/Cladding Concentricity Error      | ≤ 0.5 μm       |              |
| Cladding Non-circularity               | ≤ 0.7 %        |              |
| Coating - Cladding Concentricity Error | ≤ 12 μm        |              |
| Coating Non-circularity                | ≤ 5 %          |              |
| Fiber Curl Radius                      | ≥ 4.0 m        |              |

## OPTICAL CHARACTERISTICS

|                                              |                                   |                   |
|----------------------------------------------|-----------------------------------|-------------------|
| Attenuation Coefficient                      | at 1310 nm                        | 0.33 – 0.35 dB/km |
|                                              | at 1383 nm <sup>1</sup>           | 0.32 – 0.35 dB/km |
|                                              | at 1550 nm                        | 0.19 – 0.20 dB/km |
|                                              | at 1625 nm                        | 0.20 – 0.23 dB/km |
| Point Discontinuity                          | at 1310 nm / 1550 nm              | ≤ 0.05 dB         |
| Cable Cut-off Wavelength (λ <sub>cc</sub> )  | ≤ 1260 nm                         |                   |
| Zero-dispersion Wavelength (λ <sub>o</sub> ) | 1300nm ≤ λ <sub>o</sub> ≤ 1324 nm |                   |
| Zero-dispersion Slope (S <sub>o</sub> )      | ≤ 0.092 ps/(nm <sup>2</sup> ·km)  |                   |
| Chromatic Dispersion Coefficient             | at 1310 nm                        | ≤ 3 ps/(nm·km)    |
|                                              | at 1550 nm                        | ≤ 18 ps/(nm·km)   |
|                                              | at 1625 nm                        | ≤ 22 ps/(nm·km)   |
| Maximum Individual Fiber PMD                 | ≤ 0.1 ps/√km                      |                   |
| Fiber PMD Link Design Value <sup>2</sup>     | ≤ 0.06 ps/√km                     |                   |

1. INCLUDING HYDROGEN AGING ACCORDING TO IEC 60793-2-50, TYPE B.1.3

2. ACCORDING TO IEC 60794 –3, ED 3 (Q=0.01%)

• THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

## MECHANICAL CHARACTERISTICS

|                             |                              |                     |
|-----------------------------|------------------------------|---------------------|
| Proof Stress Level          | 0.70 GPa (1.0%, 100 kpsi)    |                     |
| Bending Induced Attenuation | Ø=7.5 mm, 1 turn at 1625 nm  | ≤ 1.00 dB           |
|                             | Ø=7.5 mm, 1 turn at 1550 nm  | ≤ 0.50 dB           |
|                             | Ø=10 mm, 1 turn at 1625 nm   | ≤ 0.20 dB           |
|                             | Ø=10 mm, 1 turn at 1550 nm   | ≤ 0.10 dB           |
|                             | Ø=15 mm, 10 turns at 1625 nm |                     |
|                             | Ø=15 mm, 10 turns at 1550 nm | ≤ 0.03 dB           |
| Coating Strip Force (F)     | peak                         | 1.2 N ≤ F ≤ 8.9 N   |
|                             | average                      | 1.0 N ≤ F ≤ 3.0 N   |
| Dynamic Tensile Strength    | median; 0.5 m, unaged        | ≥3.8 Gpa (550 kpsi) |
|                             | median; 0.5 m, aged          | ≥3.8 Gpa (550 kpsi) |
| Fatigue                     | Dynamic, aged*** - unaged    | 20                  |
|                             | Static, aged <sup>3</sup>    | 23                  |

## ENVIRONMENTAL CHARACTERISTICS <sup>3</sup>

|                              |                              |              |
|------------------------------|------------------------------|--------------|
| Temperature Cycling          | -60 °C to 85 °C              | ≤ 0.05 dB/km |
| Temperature Humidity Cycling | -10 °C to 85 °C at 98% R. H. |              |
| Water Immersion              | at 23 °C, 14 days            |              |
| Dry Heat                     | at 85 °C, 30 days            |              |
| Damp Heat                    | 85 °C at 85% R. H., 30 days  |              |

## PERFORMANCE CHARACTERISTICS

|                                                  |            |       |
|--------------------------------------------------|------------|-------|
| Effective Group Index of Refraction<br>$N_{eff}$ | at 1310 nm | 1.467 |
|                                                  | at 1550 nm |       |
|                                                  | at 1625 nm | 1.468 |

3. AGING AT 85°C, 85% RH, 30 DAYS

4. INDUCED ATTENUATION AT 1310 NM, 1550 NM AND 1625 NM

• THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

1300 nm bandwidth optimized multi-mode optical fiber.

## FIBER MATERIALS

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Core Material     | Silica (SiO <sub>2</sub> ) Doped with Germanium Dioxide (GeO <sub>2</sub> ) |
| Cladding Material | Pure silica (SiO <sub>2</sub> )                                             |
| Coating Material  | Dual layers of UV-cured acrylate                                            |

## DIMENSIONS

|                                      |                |
|--------------------------------------|----------------|
| Core Diameter                        | 62.5 ± 2.5 µm  |
| Core Non-circularity                 | ≤ 5 %          |
| Core/Cladding Concentricity Error    | ≤ 1.0 µm       |
| Cladding Diameter                    | 125.0 ± 1.0 µm |
| Cladding Non-circularity             | ≤ 0.7 %        |
| Coating Diameter (Uncolored)         | 242 ± 5 µm     |
| Coating Non-circularity              | ≤ 5 %          |
| Coating/Cladding Concentricity Error | ≤ 10 µm        |

## OPTICAL CHARACTERISTICS

|                                              |                                    |                                                         |
|----------------------------------------------|------------------------------------|---------------------------------------------------------|
| Attenuation Coefficient                      | at 1310 nm                         | 0.33 – 0.35 dB/km                                       |
|                                              | at 1383 nm <sup>1</sup>            | 0.32 – 0.35 dB/km                                       |
| Numerical Aperture                           | 0.275 ± 0.015                      |                                                         |
| Zero-dispersion Wavelength (λ <sub>o</sub> ) | 1300 nm ≤ λ <sub>o</sub> ≤ 1365 nm |                                                         |
| Zero-dispersion Slope (S <sub>o</sub> )      | 1320 nm ≤ λ <sub>o</sub> ≤ 1348 nm | ≤ 0.11 ps/nm <sup>2</sup> ·km                           |
|                                              | 1348 nm ≤ λ <sub>o</sub> ≤ 1365 nm | ≤ 0.001 (1458 - λ <sub>o</sub> ) ps/nm <sup>2</sup> ·km |
| Overfilled Modal Bandwidth <sup>1</sup>      | at 850 nm                          | ≥ 160 MHz·km                                            |
|                                              | at 1300 nm                         | ≥ 500 MHz·km                                            |
| Bending Induced Attenuation                  | Ø=75 mm, 100 turn at 850 nm        | ≤ 0.5 dB                                                |
|                                              | Ø=75 mm, 100 turn at 1300 nm       |                                                         |

1. THE MODAL BANDWIDTH IS LINEARLY NORMALIZED TO 1 KM, ACCORDING TO IEC 60793-2-10  
• THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

## PERFORMANCE CHARACTERISTICS <sup>2</sup>

|                                                         |                     |          |
|---------------------------------------------------------|---------------------|----------|
| Point Discontinuity <sup>3</sup>                        | at 850 nm / 1300 nm | ≤ 0.1 dB |
| Irregularities Over Fiber Length                        |                     |          |
| Reflections                                             | Not allowed         |          |
| Effective Group Index of Refraction<br>N <sub>eff</sub> | at 850 nm           | 1.496    |
|                                                         | at 1300 nm          | 1.491    |

## MECHANICAL CHARACTERISTICS

|                           |                                             |                     |
|---------------------------|---------------------------------------------|---------------------|
| Proof Level               | off line                                    | 0.7 GPa (100 kpsi)  |
| Dynamic Tensile Strength  | median; 0.5 m, unaged and aged <sup>4</sup> | ≥3.8 Gpa (550 kpsi) |
| Dynamic Fatigue Parameter | nominal value, unaged and aged <sup>4</sup> | 25                  |
| Coating Strip Force (F)   | peak, unaged and aged <sup>5</sup>          | 1.3 N ≤ F ≤ 8.9 N   |
|                           | average, unaged and aged <sup>5</sup>       | 1.0 N ≤ F ≤ 3.0 N   |

## ENVIRONMENTAL CHARACTERISTICS <sup>6</sup>

|                              |                                |             |
|------------------------------|--------------------------------|-------------|
| Temperature Cycling          | -60 °C to 85 °C                | ≤ 0.1 dB/km |
| Temperature Humidity Cycling | -10 °C to 85 °C at 4-98% R. H. |             |
| Water Immersion              | at 23 °C ± 2 °C, 30 days       |             |
| Heat Aging                   | at 85 °C ± 2 °C, 30 days       |             |
| Damp Heat                    | 85 °C at 85% R. H., 30 days    |             |

3. OTDR MEASUREMENT WITH 0.5 MS PULSE WIDTH

4. MEAN OF BI-DIRECTIONAL MEASUREMENT

5. AGING AT 85 °C, 85% R. H., 30 DAYS

6. AGING AT 23 °C, 0 °C AND 45 °C; 30 DAYS AT 85 °C AND 85% R.H.; 14 DAYS WATER IMMERSION AT 23 °C

7. INDUCED ATTENUATION AT 850 NM AND 1300 NM

• THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY

# OM3-PE-08

SINGLE LOOSE TUBE, NON-METALLIC ARMOR, POLYETHYLENE JACKET, FIBER OPTIC CABLE

## FIBER MATERIALS

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Core Material     | Silica (SiO <sub>2</sub> ) Doped with Germanium Dioxide (GeO <sub>2</sub> ) |
| Cladding Material | Pure silica (SiO <sub>2</sub> )                                             |
| Coating Material  | Dual layers of UV-cured acrylate                                            |

## DIMENSIONS

|                                      |                |
|--------------------------------------|----------------|
| Core Diameter                        | 50 ± 2.5 µm    |
| Core Non-circularity                 | ≤ 5 %          |
| Core/Cladding Concentricity Error    | ≤ 1.0 µm       |
| Cladding Diameter                    | 125.0 ± 1.0 µm |
| Cladding Non-circularity             | ≤ 0.7 %        |
| Coating Diameter (Uncolored)         | 242 ± 5 µm     |
| Coating Non-circularity              | ≤ 5 %          |
| Coating/Cladding Concentricity Error | ≤ 10 µm        |

## OPTICAL CHARACTERISTICS

|                                              |                                    |                                                            |
|----------------------------------------------|------------------------------------|------------------------------------------------------------|
| Attenuation Coefficient                      | at 850 nm                          | ≤ 2.3 ~ 2.4 dB/km                                          |
|                                              | at 1300 nm                         | ≤ 0.5 ~ 0.6 dB/km                                          |
| Numerical Aperture                           | 0.200 ± 0.015                      |                                                            |
| Zero-dispersion Wavelength (λ <sub>0</sub> ) | 1320 nm ≤ λ <sub>0</sub> ≤ 1365 nm |                                                            |
| Zero-dispersion Slope (S <sub>0</sub> )      | 1295 nm ≤ λ <sub>0</sub> ≤ 1310 nm | ≤ 0.105 ps/nm <sup>2</sup> ·km                             |
|                                              | 1310 nm ≤ λ <sub>0</sub> ≤ 1340 nm | ≤ 0.000375 (1590 - λ <sub>0</sub> ) ps/nm <sup>2</sup> ·km |
| Differential Mode Delay (DMD)                | See Note <sup>1</sup>              |                                                            |
| Fiber Capacity                               | 10GBASE-SR                         | 83 m                                                       |
|                                              | 1GBASE-SR                          | 600 m                                                      |
| Overfilled Modal Bandwidth                   | at 850 nm                          | ≥ 500 MHz·km                                               |
|                                              | at 1300 nm                         |                                                            |
| Bending Loss                                 | Ø=15 mm, 2 turn at 850 nm          | ≤ 0.2 dB                                                   |
|                                              | Ø=15 mm, 2 turn at 1300 nm         | ≤ 0.5 dB                                                   |
|                                              | Ø=30 mm, 2 turn at 850 nm          | ≤ 0.1 dB                                                   |
|                                              | Ø=30 mm, 2 turn at 1300 nm         | ≤ 0.3 dB                                                   |

1. DIFFERENTIAL MODE DELAY (DMD) SPECIFICATIONS ARE COMPLIANT WITH IEC 60793-2-10 (TYPE A1A.2 FOR OM3 AND TYPE A1A.3 FOR OM4), TIA-492AAAC (OM3) AND 492AAAD (OM4)  
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## PERFORMANCE CHARACTERISTICS <sup>2</sup>

|                                                         |                     |          |
|---------------------------------------------------------|---------------------|----------|
| Point Discontinuity <sup>3</sup>                        | at 850 nm / 1300 nm | ≤ 0.1 dB |
| Irregularities Over Fiber Length                        |                     |          |
| Reflections                                             | Not allowed         |          |
| Effective Group Index of Refraction<br>N <sub>eff</sub> | at 850 nm           | 1.482    |
|                                                         | at 1300 nm          | 1.477    |

## MECHANICAL CHARACTERISTICS

|                                  |                                             |                     |
|----------------------------------|---------------------------------------------|---------------------|
| <b>Proof Level</b>               | off line                                    | 0.7 GPa (100 kpsi)  |
| <b>Dynamic Tensile Strength</b>  | median; 0.5 m, unaged and aged <sup>4</sup> | ≥3.8 Gpa (550 kpsi) |
| <b>Dynamic Fatigue Parameter</b> | nominal value, unaged and aged <sup>4</sup> | 25                  |
| <b>Coating Strip Force (F)</b>   | peak, unaged and aged <sup>5</sup>          | 1.3 N ≤ F ≤ 8.9 N   |
|                                  | average, unaged and aged <sup>5</sup>       | 1.0 N ≤ F ≤ 3.0 N   |

## ENVIRONMENTAL CHARACTERISTICS <sup>6</sup>

|                                     |                                |             |
|-------------------------------------|--------------------------------|-------------|
| <b>Temperature Cycling</b>          | -60 °C to 85 °C                | ≤ 0.1 dB/km |
| <b>Temperature Humidity Cycling</b> | -10 °C to 85 °C at 4-98% R. H. |             |
| <b>Water Immersion</b>              | at 23 °C ± 2 °C, 30 days       |             |
| <b>Heat Aging</b>                   | at 85 °C ± 2 °C, 30 days       |             |
| <b>Damp Heat</b>                    | 85 °C at 85% R. H., 30 days    |             |

3. OTDR MEASUREMENT WITH 0.5 MS PULSE WIDTH

4. MEAN OF BI-DIRECTIONAL MEASUREMENT

5. AGING AT 85 °C, 85% R. H., 30 DAYS

6. AGING AT 23 °C, 0 °C AND 45 °C; 30 DAYS AT 85 °C AND 85% R.H.; 14 DAYS WATER IMMERSION AT 23 °C

7. INDUCED ATTENUATION AT 850 NM AND 1300 NM

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## FIBER MATERIALS

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Core Material     | Silica (SiO <sub>2</sub> ) Doped with Germanium Dioxide (GeO <sub>2</sub> ) |
| Cladding Material | Pure silica (SiO <sub>2</sub> )                                             |
| Coating Material  | Dual layers of UV-cured acrylate                                            |

## DIMENSIONS

|                                      |                |
|--------------------------------------|----------------|
| Core Diameter                        | 50 ± 2.5 µm    |
| Core Non-circularity                 | ≤ 5 %          |
| Core/Cladding Concentricity Error    | ≤ 1.0 µm       |
| Cladding Diameter                    | 125.0 ± 1.0 µm |
| Cladding Non-circularity             | ≤ 0.7 %        |
| Coating Diameter (Uncolored)         | 242 ± 5 µm     |
| Coating Non-circularity              | ≤ 5 %          |
| Coating/Cladding Concentricity Error | ≤ 10 µm        |

## OPTICAL CHARACTERISTICS

|                                              |                                    |                                                            |
|----------------------------------------------|------------------------------------|------------------------------------------------------------|
| Attenuation Coefficient                      | at 850 nm                          | ≤ 2.3 ~ 2.4 dB/km                                          |
|                                              | at 1300 nm                         | ≤ 0.5 ~ 0.6 dB/km                                          |
| Numerical Aperture                           | 0.200 ± 0.015                      |                                                            |
| Zero-dispersion Wavelength (λ <sub>0</sub> ) | 1320 nm ≤ λ <sub>0</sub> ≤ 1365 nm |                                                            |
| Zero-dispersion Slope (S <sub>0</sub> )      | 1295 nm ≤ λ <sub>0</sub> ≤ 1310 nm | ≤ 0.105 ps/nm <sup>2</sup> ·km                             |
|                                              | 1310 nm ≤ λ <sub>0</sub> ≤ 1340 nm | ≤ 0.000375 (1590 - λ <sub>0</sub> ) ps/nm <sup>2</sup> ·km |
| Differential Mode Delay (DMD)                | See Note <sup>1</sup>              |                                                            |
| Fiber Capacity                               | 40GBASE-SR4 / 100GBASE-SR10        | 140 m <sup>2</sup>                                         |
|                                              | 10GBASE-SR                         | 300 m                                                      |
|                                              | 1GBASE-SR                          | 1000 m                                                     |
| Overfilled Modal Bandwidth                   | at 850 nm                          | ≥ 1500 MHz·km                                              |
|                                              | at 1300 nm                         | ≥ 500 MHz·km                                               |
| Effective Modal Bandwidth (EMB)              | at 850 nm                          | ≥ 2000 MHz·km                                              |
| Bending Loss                                 | Ø=15 mm, 2 turn at 850 nm          | ≤ 0.2 dB                                                   |
|                                              | Ø=15 mm, 2 turn at 1300 nm         | ≤ 0.5 dB                                                   |
|                                              | Ø=30 mm, 2 turn at 850 nm          | ≤ 0.1 dB                                                   |
|                                              | Ø=30 mm, 2 turn at 1300 nm         | ≤ 0.3 dB                                                   |

1. DIFFERENTIAL MODE DELAY (DMD) SPECIFICATIONS ARE COMPLIANT WITH IEC 60793-2-10 (TYPE A1A.2 FOR OM3 AND TYPE A1A.3 FOR OM4), TIA-492AAAC (OM3) AND 492AAAD (OM4)

2. MAXIMUM CABLED FIBER ATTENUATION 3.0 DB/KM AT 850 NM, MAXIMUM TOTAL CONNECTOR LOSS OF 1.0 DB AND VCSELS MAXIMUM RMS SPECTRAL WIDTH OF 0.29 NM

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## PERFORMANCE CHARACTERISTICS <sup>3</sup>

|                                                         |                     |          |
|---------------------------------------------------------|---------------------|----------|
| Point Discontinuity <sup>4</sup>                        | at 850 nm / 1300 nm | ≤ 0.1 dB |
| Irregularities Over Fiber Length                        |                     |          |
| Reflections                                             | Not allowed         |          |
| Effective Group Index of Refraction<br>N <sub>eff</sub> | at 850 nm           | 1.482    |
|                                                         | at 1300 nm          | 1.477    |

## MECHANICAL CHARACTERISTICS

|                           |                                             |                     |
|---------------------------|---------------------------------------------|---------------------|
| Proof Level               | off line                                    | 0.7 GPa (100 kpsi)  |
| Dynamic Tensile Strength  | median; 0.5 m, unaged and aged <sup>5</sup> | ≥3.8 Gpa (550 kpsi) |
| Dynamic Fatigue Parameter | nominal value, unaged and aged <sup>5</sup> | 25                  |
| Coating Strip Force (F)   | peak, unaged and aged <sup>6</sup>          | 1.3 N ≤ F ≤ 8.9 N   |
|                           | average, unaged and aged <sup>6</sup>       | 1.0 N ≤ F ≤ 3.0 N   |

## ENVIRONMENTAL CHARACTERISTICS <sup>7</sup>

|                              |                                |             |
|------------------------------|--------------------------------|-------------|
| Temperature Cycling          | -60 °C to 85 °C                | ≤ 0.1 dB/km |
| Temperature Humidity Cycling | -10 °C to 85 °C at 4-98% R. H. |             |
| Water Immersion              | at 23 °C ± 2 °C, 30 days       |             |
| Heat Aging                   | at 85 °C ± 2 °C, 30 days       |             |
| Damp Heat                    | 85 °C at 85% R. H., 30 days    |             |

3. OTDR MEASUREMENT WITH 0.5 MS PULSE WIDTH

4. MEAN OF BI-DIRECTIONAL MEASUREMENT

5. AGING AT 85 °C, 85% R. H., 30 DAYS

6. AGING AT 23 °C, 0 °C AND 45 °C; 30 DAYS AT 85 °C AND 85% R.H.; 14 DAYS WATER IMMERSION AT 23 °C

7. INDUCED ATTENUATION AT 850 NM AND 1300 NM

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|-------------------|-----------------------------------------------------------------------------|
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| Cladding Material | Pure silica (SiO <sub>2</sub> )                                             |
| Coating Material  | Dual layers of UV-cured acrylate                                            |

## DIMENSIONS

|                                      |                |
|--------------------------------------|----------------|
| Core Diameter                        | 50 ± 2.5 µm    |
| Core Non-circularity                 | ≤ 5 %          |
| Core/Cladding Concentricity Error    | ≤ 1.0 µm       |
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| Coating Diameter (Uncolored)         | 242 ± 5 µm     |
| Coating Non-circularity              | ≤ 5 %          |
| Coating/Cladding Concentricity Error | ≤ 10 µm        |

## OPTICAL CHARACTERISTICS

|                                              |                                    |                                                            |
|----------------------------------------------|------------------------------------|------------------------------------------------------------|
| Attenuation Coefficient                      | at 850 nm                          | ≤ 2.2 ~ 2.3 dB/km                                          |
|                                              | at 1300 nm                         | ≤ 0.5 ~ 0.6 dB/km                                          |
| Numerical Aperture                           | 0.200 ± 0.015                      |                                                            |
| Zero-dispersion Wavelength (λ <sub>0</sub> ) | 1295 nm ≤ λ <sub>0</sub> ≤ 1340 nm |                                                            |
| Zero-dispersion Slope (S <sub>0</sub> )      | 1295 nm ≤ λ <sub>0</sub> ≤ 1310 nm | ≤ 0.105 ps/nm <sup>2</sup> ·km                             |
|                                              | 1310 nm ≤ λ <sub>0</sub> ≤ 1340 nm | ≤ 0.000375 (1590 - λ <sub>0</sub> ) ps/nm <sup>2</sup> ·km |
| Differential Mode Delay (DMD)                | See Note <sup>1</sup>              |                                                            |
| Fiber Capacity                               | 40GBASE-SR4 / 100GBASE-SR10        | 170 m <sup>2</sup>                                         |
|                                              | 10GBASE-SR                         | 550 m <sup>2</sup>                                         |
|                                              | 1GBASE-SR                          | 1100 m                                                     |
| Overfilled Modal Bandwidth                   | at 850 nm                          | ≥ 3500 MHz·km                                              |
|                                              | at 1300 nm                         | ≥ 500 MHz·km                                               |
| Effective Modal Bandwidth (EMB)              | at 850 nm                          | ≥ 4700 MHz·km                                              |
| Bending Loss                                 | Ø=75 mm, 100 turn at 850 nm        | ≤ 0.5 dB                                                   |
|                                              | Ø=75 mm, 100 turn at 1300 nm       |                                                            |

1. DIFFERENTIAL MODE DELAY (DMD) SPECIFICATIONS ARE COMPLIANT WITH IEC 60793-2-10 (TYPE A1A.2 FOR OM3 AND TYPE A1A.3 FOR OM4), TIA-492AAAC (OM3) AND 492AAAD (OM4)

2. MAXIMUM CABLED FIBER ATTENUATION 3.0 DB/KM AT 850 NM, MAXIMUM TOTAL CONNECTOR LOSS OF 1.0 DB AND VCSELS MAXIMUM RMS SPECTRAL WIDTH OF 0.29 NM

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## PERFORMANCE CHARACTERISTICS <sup>3</sup>

|                                                         |                     |          |
|---------------------------------------------------------|---------------------|----------|
| Point Discontinuity <sup>4</sup>                        | at 850 nm / 1300 nm | ≤ 0.1 dB |
| Irregularities Over Fiber Length                        |                     |          |
| Reflections                                             | Not allowed         |          |
| Effective Group Index of Refraction<br>N <sub>eff</sub> | at 850 nm           | 1.482    |
|                                                         | at 1300 nm          | 1.477    |

## MECHANICAL CHARACTERISTICS

|                           |                                             |                     |
|---------------------------|---------------------------------------------|---------------------|
| Proof Level               | off line                                    | 0.7 GPa (100 kpsi)  |
| Dynamic Tensile Strength  | median; 0.5 m, unaged and aged <sup>5</sup> | ≥3.8 Gpa (550 kpsi) |
| Dynamic Fatigue Parameter | nominal value, unaged and aged <sup>5</sup> | 25                  |
| Coating Strip Force (F)   | peak, unaged and aged <sup>6</sup>          | 1.3 N ≤ F ≤ 8.9 N   |
|                           | average, unaged and aged <sup>6</sup>       | 1.0 N ≤ F ≤ 3.0 N   |

## ENVIRONMENTAL CHARACTERISTICS <sup>7</sup>

|                              |                                |             |
|------------------------------|--------------------------------|-------------|
| Temperature Cycling          | -60 °C to 85 °C                | ≤ 0.1 dB/km |
| Temperature Humidity Cycling | -10 °C to 85 °C at 4-98% R. H. |             |
| Water Immersion              | at 23 °C ± 2 °C, 30 days       |             |
| Heat Aging                   | at 85 °C ± 2 °C, 30 days       |             |
| Damp Heat                    | 85 °C at 85% R. H., 30 days    |             |

## FIBER OPTIC CABLE

|             |
|-------------|
| Part Number |
| OM3-PE-08   |

3. OTDR MEASUREMENT WITH 0.5 MS PULSE WIDTH

4. MEAN OF BI-DIRECTIONAL MEASUREMENT

5. AGING AT 85 °C, 85% R. H., 30 DAYS

6. AGING AT 23 °C, 0 °C AND 45 °C; 30 DAYS AT 85 °C AND 85% R.H.; 14 DAYS WATER IMMERSION AT 23 °C

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