

# DIGILINK OptiPlus OP2 Optical Fiber 62.5 $\mu\text{m}$ , Multimode

## Optical Characteristics, Wavelength Specific

| 850 nm                                                                         | 1,300 nm                          |            |
|--------------------------------------------------------------------------------|-----------------------------------|------------|
| Max. Attenuation                                                               | 3.0 dB/km                         | 0.7 dB/km  |
| Bandwidth OFL                                                                  | 200 MHz-km                        | 500 MHz-km |
| Group Refractive Index                                                         | 1.496                             | 1.491      |
| <b>Optical Characteristics, General</b>                                        |                                   |            |
| Numerical Aperture                                                             | $0.275 \pm 0.015$                 |            |
| Zero Dispersion Wavelength                                                     | $1,322 \leq 1,354 \text{ nm}$     |            |
| Zero Dispersion Slope                                                          | $0.097 \text{ ps}/[\text{nm-km}]$ |            |
| <b>Physical Characteristics</b>                                                |                                   |            |
| Core Diameter                                                                  | $62.5 \pm 2.5 \mu\text{m}$        |            |
| Cladding Diameter                                                              | $125.0 \pm 1.0 \mu\text{m}$       |            |
| Core/Clad Offset                                                               | $\leq 1.5 \mu\text{m}$            |            |
| Coating Diameter (Uncoloured)                                                  | $245 \pm 10 \mu\text{m}$          |            |
| Coating Diameter (Coloured)                                                    | $254 \pm 7 \mu\text{m}$           |            |
| Core Cladding Concentricity                                                    | $\leq 3.0 \mu\text{m}$            |            |
| Cladding Non-Circularity                                                       | $\leq 2\%$                        |            |
| <b>Mechanical Characteristics</b>                                              |                                   |            |
| Proof Test                                                                     | $\geq 100 \text{ kpsi}$           |            |
| Coating Strip Force                                                            | 0.6 lbs (2.7 N)                   |            |
| Dynamic Fatigue Parameter (nd)                                                 | $\leq 18$                         |            |
| Macrobending, Max. (100 turns@75mm mandrel)                                    | 0.50 dB max.@850nm and 1.300nm    |            |
| <b>Environmental Characteristics</b>                                           |                                   |            |
| Temperature Dependence -60 °C to +85 °C                                        | $\leq 0.20 \text{ dB}$            |            |
| Temperature Humidity Cycling<br>- 10 °C to 85° C (14° F to 185° F) up to 95%RH | $\leq 0.20 \text{ dB}$            |            |
| Water Immersion, 23° C (73.4° F)                                               | $\leq 0.20 \text{ dB}$            |            |
| Heat Ageing, 85° C (185 F)                                                     | $\leq 0.20 \text{ dB}$            |            |
| <b>Corning's Fiber Type</b>                                                    |                                   |            |
| Infinicor 300                                                                  |                                   |            |
| <b>Qualifications and Approvals</b>                                            |                                   |            |
| ▪ Qualifies as per EIA/TIA 568 B                                               |                                   |            |
| ▪ Qualifies as OM2 as per ISO/IEC 11801                                        |                                   |            |