## CS-5E-PFC

## 50um OM3 Bend-Insensitive Multimode Fiber

## Product Classification

## Portfolio <br> Product Type <br> General Specifications

Cladding Diameter
Cladding Diameter Tolerance
Cladding Non-Circularity, maximum
Cladding Non-Circularity, maximum $0.7 \%$
Coating Diameter (Colored) $242 \mu \mathrm{~m}$
Coating Diameter Tolerance (Colored)
Coating/Cladding Concentricity Error, maximum
Core Diameter
Core Diameter Tolerance
Core/Clad Offset maximum
Proof Test

## Mechanical Specifications

Macrobending, 15 mm Ø mandrel, 2 turns
Macrobending, 30 mm Ø mandrel, 2 turns
Coating Strip Force, maximum
Coating Strip Force, minimum
Dynamic Fatigue Parameter, minimum

## Optical Specifications

Numerical Aperture
Numerical Aperture Tolerance
Point Defects, maximum
Zero Dispersion Slope, maximum
Zero Dispersion Wavelength, maximum
Zero Dispersion Wavelength, minimum
$125 \mu \mathrm{~m}$
$\pm 0.8 \mu \mathrm{~m}$
$\pm 7 \mu \mathrm{~m}$
$10 \mu \mathrm{~m}$
CommScope®
Optical fiber
$50 \mu \mathrm{~m}$
$\pm 2.5 \mu \mathrm{~m}$
$1 \mu \mathrm{~m}$
$689.476 \mathrm{~N} / \mathrm{mm}^{2}$ | 100000 psi
0.20 dB @ 850 nm | 0.50 dB @ 1,300 nm
$0.10 \mathrm{~dB} @ 850 \mathrm{~nm}$ | 0.30 dB @ 1,300 nm
$8.9 \mathrm{~N} \mid 2.001 \mathrm{lbf}$
$1.3 \mathrm{~N} \mid 0.292 \mathrm{lbf}$
25
$\pm 0.015$
0.2 dB
0.105 ps/[km-nm-nm]

1340 nm
1295 nm

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## Optical Specifications, Wavelength Specific

Attenuation, maximum
Backscatter Coefficient
Bandwidth, Laser, minimum
Bandwidth, OFL, minimum
Differential Mode Delay Note
Index of Refraction
Standards Compliance
1.20 dB/km @ 1,300 nm | 3.00 dB/km @ 850 nm
-68.0 dB @ 850 nm | -75.7 dB @ 1,300 nm
2,000 MHz-km @ 850 nm | $500 \mathrm{MHz-km} @ 1,300 \mathrm{~nm}$
1,500 MHz-km @ 850 nm | $500 \mathrm{MHz-km} @ 1,300 \mathrm{~nm}$
Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm
1.477 @ 1,300 nm | 1.482 @ 850 nm

TIA-492AAAC (OM3)

## Environmental Specifications

Heat Aging, maximum
Temperature Dependence, maximum
Temperature Humidity Cycling, maximum
Water Immersion, maximum
$0.10 \mathrm{~dB} / \mathrm{km} @ 85^{\circ} \mathrm{C}$
0.1 dB/km
0.1 dB/km
$0.10 \mathrm{~dB} / \mathrm{km} @ 23^{\circ} \mathrm{C}$

## Regulatory Compliance/Certifications

## Agency Classification

ISO 9001:2015
Designed, manufactured and/or distributed under this quality management system

## * Footnotes

Temperature Dependence, maximum Temperature dependence is conducted at $-60^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(-76^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$
Temperature Humidity Cycling, maximum Temperature humidity cycling is conducted at $-10^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(+14^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$ up to $95 \%$ relative humidity

