

# CS-8R-LT

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Type 8R Optical Fiber Non-Zero Dispersion-Shifted Singlemode Fiber for Wideband Optical Transport; ITU-T G655.C,E | G656

## Product Classification

<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Optical fiber

## General Specifications

<b>Cladding Diameter</b>	125 µm
<b>Cladding Diameter Tolerance</b>	±0.7 µm
<b>Cladding Non-Circularity, maximum</b>	0.7 %
<b>Coating Diameter (Colored)</b>	256 µm
<b>Coating Diameter (Uncolored)</b>	245 µm
<b>Coating Diameter Tolerance (Colored)</b>	±8 µm
<b>Coating Diameter Tolerance (Uncolored)</b>	±5 µm
<b>Coating/Cladding Concentricity Error, maximum</b>	12 µm
<b>Core/Clad Offset, maximum</b>	0.5 µm
<b>Proof Test</b>	689.476 N/mm <sup>2</sup>   100000 psi

## Dimensions

<b>Fiber Curl, minimum</b>	4 m   13.123 ft
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## Mechanical Specifications

<b>Macrobending, 32 mm Ø mandrel, 1 turn</b>	0.50 dB @ 1,550 nm
<b>Macrobending, 75 mm Ø mandrel, 100 turns</b>	0.05 dB @ 1,550 nm   0.05 dB @ 1,625 nm
<b>Coating Strip Force, maximum</b>	8.9 N   2.001 lbf
<b>Coating Strip Force, minimum</b>	1.3 N   0.292 lbf
<b>Dynamic Fatigue Parameter, minimum</b>	20

## Optical Specifications

<b>Cabled Cutoff Wavelength, maximum</b>	1310 nm
<b>Dispersion Slope</b>	0.045 ps/[km-nm-nm] @ 1,550 nm
<b>Point Defects, maximum</b>	0.1 dB

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## Optical Specifications, Wavelength Specific

<b>Attenuation, maximum</b>	0.23 dB/km @ 1,550 nm   0.26 dB/km @ 1,625 nm   0.45 dB/km @ 1,310 nm
<b>Attenuation, typical</b>	0.20 dB/m @ 1,550 nm
<b>Dispersion, maximum</b>	5.5 ps(nm-km) to 8.9 ps(nm-km) from 1530 nm to 1565 nm at 1550 nm   6.9 ps(nm-km) to 11.4 ps(nm-km) from 1565 nm to 1625 nm at 1625 nm
<b>Index of Refraction</b>	1.470 @ 1,550 nm   1.470 @ 1,625 nm   1.471 @ 1,310 nm
<b>Mode Field Diameter</b>	8.6 $\mu\text{m}$ @ 1,550 nm   9.1 $\mu\text{m}$ @ 1,625 nm
<b>Mode Field Diameter Tolerance</b>	$\pm 0.4 \mu\text{m}$ @ 1550 nm   $\pm 0.6 \mu\text{m}$ @ 1625 nm
<b>Polarization Mode Dispersion Link Design Value, maximum</b>	0.04 ps/sqrt(km)
<b>Standards Compliance</b>	ITU-T G.655   ITU-T G.656

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

