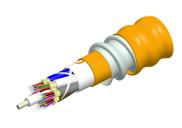
# 760125112 | R-024-DZ-6F-FSUOR



OptiSPEED® Riser Distribution Cable Interlocking Aluminum Armored with Riser Jacket 24-Fiber Single-Unit

#### **Product Classification**

Regional Availability

Asia | Australia/New Zealand | Latin America | Middle East/Africa | North

America

Portfolio CommScope®

**Product Type** Fiber indoor cable

General Specifications

Armor Type Interlocking aluminum

Cable TypeDistribution

Construction Type Armored

Fiber Type, quantity 24

Jacket ColorOrangeSubunit TypeGel-free

Total Fiber Count 24

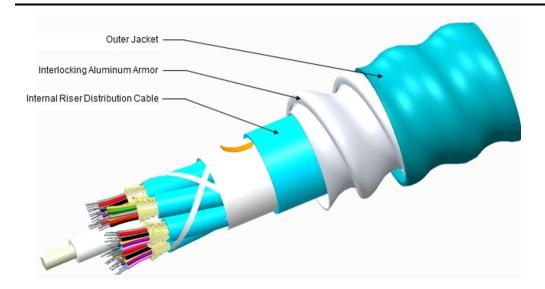
**Dimensions** 

Diameter Over Armor13.34 mm | 0.525 inDiameter Over Jacket15.4 mm | 0.606 in

Representative Image



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## Mechanical Specifications

Minimum Bend Radius, loaded231 mm | 9.094 inMinimum Bend Radius, unloaded154 mm | 6.063 inTensile Load, long term, maximum400 N | 89.924 lbfTensile Load, short term, maximum1335 N | 300.12 lbf

 Compression
 85 N/mm | 485.363 lb/in

 Compression Test Method
 FOTP-41 | IEC 60794-1 E3

Flex 25 cycles

Flex Test Method FOTP-104 | IEC 60794-1 E6

**Impact** 35 N-m | 309.776 in lb

Impact Test Method FOTP-25 | IEC 60794-1 E4

**Strain** See long and short term tensile loads

**Strain Test Method** FOTP-33 | IEC 60794-1 E1

Twist 10 cycles

Twist Test Method FOTP-85 | IEC 60794-1 E7

**Vertical Rise, maximum** 209 m | 685.696 ft

**Optical Specifications** 

Fiber Type OM1, OptiSPEED® | OM1, OptiSPEED®

# **Environmental Specifications**



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Installation temperature

-20 °C to +70 °C (-4 °F to +158 °F)

Operating Temperature

-20 °C to +70 °C (-4 °F to +158 °F)

**Storage Temperature**  $-40 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \text{ (-40 }^{\circ}\text{F to } +158 \,^{\circ}\text{F)}$ 

Cable Qualification StandardsANSI/ICEA S-83-596Telcordia GR-409

Environmental Space Riser

Flame Test Listing NEC OFCR (ETL) and c(ETL)

Flame Test Method UL 1666

### **Environmental Test Specifications**

**Heat Age**  $-20 \,^{\circ}\text{C}$  to  $+85 \,^{\circ}\text{C}$   $(-4 \,^{\circ}\text{F to} +185 \,^{\circ}\text{F})$ 

**Heat Age Test Method** IEC 60794-1 F9

**Low High Bend** -20 °C to +70 °C (-4 °F to +158 °F)

**Low High Bend Test Method** FOTP-37 | IEC 60794-1 E11

**Temperature Cycle** -20 °C to +70 °C (-4 °F to +158 °F)

**Temperature Cycle Test Method** FOTP-3 | IEC 60794-1 F1

Packaging and Weights

**Cable weight** 195 kg/km | 131.034 lb/kft

## Regulatory Compliance/Certifications

#### Agency Classification

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



#### Included Products

CS-6F-TB - OptiSPEED® OM1 Multimode

#### \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable



## OptiSPEED® OM1 Multimode Fiber

# OptiSPEED®

#### **Product Classification**

Portfolio CommScope®
Product Type Optical fiber

General Specifications

**Cladding Diameter** 125 μm

Cladding Diameter Tolerance ±1.0 µm

Cladding Non-Circularity, maximum  $$1\ \%$$ 

**Coating Diameter (Colored)** 254 μm

**Coating Diameter (Uncolored)** 245 μm

 $\textbf{Coating/Cladding Concentricity Error, maximum} \hspace{1.5cm} 12~\mu m$ 

**Core Diameter** 62.5 µm

 $\textbf{Core/Clad Offset, maximum} \hspace{1.5cm} 1 \ \mu m$ 

**Proof Test** 689.476 N/mm² | 100000 psi

Tight Buffer Diameter 900  $\mu$ m
Tight Buffer Diameter Tolerance  $\pm 40 \ \mu$ m

Mechanical Specifications

**Macrobending, 75 mm mandrel, 100 turns** 0.50 dB @ 1,300 nm | 0.50 dB @ 850 nm

Coating Strip Force, maximum8.9 N | 2.001 lbfCoating Strip Force, minimum1.3 N | 0.292 lbf

**Dynamic Fatigue Parameter, minimum** 18

**COMMSCOPE®** 

# CS-6F-TB

#### **Optical Specifications**

Numerical Aperture0.275Numerical Aperture Tolerance±0.015Point Defects, maximum0.15 dB

**Zero Dispersion Slope, maximum** 0.097 ps/[km-nm-nm]

**Zero Dispersion Wavelength, maximum** 1365 nm **Zero Dispersion Wavelength, minimum** 1320 nm

#### Optical Specifications, Wavelength Specific

**1 Gbps Ethernet Distance** 300 m @ 850 nm | 550 m @ 1,300 nm

**Attenuation, maximum** 1.00 dB/km @ 1,300 nm | 3.00 dB/km @ 850 nm

**Backscatter Coefficient** -68.0 dB @ 850 nm | -75.7 dB @ 1,300 nm

**Bandwidth, OFL, minimum** 220 MHz-km @ 850 nm | 500 MHz-km @ 1,300 nm

**Index of Refraction** 1.491 @ 1,300 nm | 1.496 @ 850 nm

Standards Compliance TIA-492AAAA (OM1)

## **Environmental Specifications**

Heat Aging, maximum 0.20 dB/km @ 85 °C

Temperature Dependence, maximum0.1 dB/kmTemperature Humidity Cycling, maximum0.2 dB/km

**Water Immersion, maximum** 0.20 dB/km @ 23 °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 °C to +85 °C (-76 °F to +185 °F)

Temperature Humidity Cycling, maximum Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F)

up to 95% relative humidity

**COMMSCOPE®**