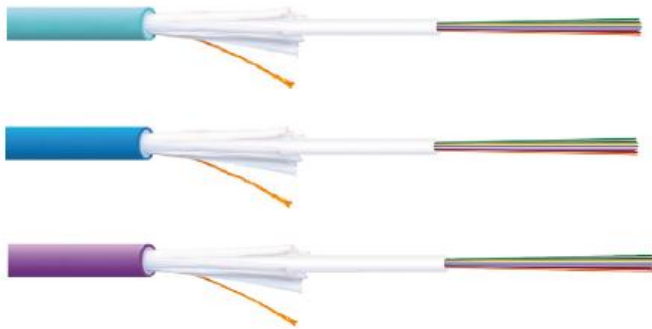


## DIGITUS® Fiber Optic Installation Cables, Multimode



✓ Multimode 50/125 µm

✓ Available as OM2, OM3, OM4

✓ Flame retardant & rodent protection

✓ LSZH sheath

### Abstract

DIGITUS® Fiber Optic Installation Cables, Multimode, OM2, OM3 or OM4, 50/125 µm

### Features

- Multimode
- Universally useable, for indoor and outdoor use
- Central loose tube cable
- Dry cable cores
- Color coded fibers
- Available with 4, 8, 12 or 24 fibers
- Glass yarn armored
- Metal free
- Non-metal rodent protection
- UV-resistant
- Halogen-free, flame resistant as per IEC 332-3 C
- Longitudinally and laterally water-resistant
- Storage temperature: -30 °C up to +70 °C
- Cord rewind temperature: -10 °C up to +50 °C
- Operating temperature: -30 °C up to +70 °C

### Product Overview

DIGITUS® offers a wide range of high quality fiber optic installation cables. Practically every request and every requirement is covered by the broad range of fibers and cable types. The DIGITUS® product range supplies all cable types, whether with 4, 8, 12 or 24 fibers or in different qualities as OM1, OM2, OM3, OM4 and OS2. The DIGITUS® fiber optic installation cables guarantee the best performance and fail-safety. They are suitable for local wiring applications like Local Area Networks (LAN) with Video-, Data- and Voice communication via LED, VCSEL or Fabry-Perot laser sources.

### Geometric and Mechanical Properties

Outer sheath	LSZH (Low Smoke Zero Halogen)
Tensile strength	1200 N
Loose tube material	Polybuteneterpheteleta (PBT)
Loose tube diameter	3.5 mm
Type of filling compound	Thyrotrophic jelly
Lateral pressure strength	permanent 200 N/cm, temporary 500 N/cm
Bending radius	min. 20x outer diameter
Impact resistance	-20 nm
Crush resistance	-1500 N
Repeated bending	10xD / 50 N load (10 bending)
Core diameter	50 ± 2.0 µm
Unroundness of core	≤ 5%
Fiber sheath diameter	125 ± 1.0 µm
Core/sheath concentricity error	≤ 1 µm
Unroundness of sheath	≤ 0.7%
Coating diameter	242 ± 5 µm
Undroundness of coatings	≤ 5%
Coating/sheath concentricity error	≤ 12 µm
Test load	≥ 8.8 / N ≥ 1% / ≥ 100 Kpsi

### Optical Properties

		OM2	OM3	OM4
<b>Typical attenuation (dB/km)</b>	850 nm	≤ 2.5		
	1300 nm	≤ 0.7		
<b>Bandwidth (MHz/km)</b>	850 nm	≤ 500	≤ 1500	≤ 3500
	1300 nm	≤ 500		
<b>Length of link</b>	1000 Base-SX	550	900	1100
	1000 Base-LX	550		
	10 GBAS-SX	82	300	550
<b>Numerical aperture (NA)</b>	-	0.200 ± 0.015		
<b>Index of breaking number</b>	850 nm	1.482		
	1300 nm	1.477		

### Compliant according to the standards

IEC 60793-2-10 A1a.1  
A1a.2, A1a.3  
TIA/EIA-492AAAB  
TIA/EIA-492AAAC-A  
TIA/EIA-492AAAD  
Telcordia GR-20-CORE  
GR-409-CORE  
TIA/EIA 568C

## Product Number Information

### Fiber Optic Installation Cables - Multimode Class OM2

DK-35041-U	Universal Cable, OM2, 4 fibers, AI-DQ(ZN)BH, 4G50/125 $\mu$ , Multimode, color blue
DK-35081-U	Universal Cable, OM2, 8 fibers, AI-DQ(ZN)BH, 8G50/125 $\mu$ , Multimode, color blue
DK-35121-U	Universal Cable, OM2, 12 fibers, AI-DQ(ZN)BH, 12G50/125 $\mu$ , Multimode, color blue
DK-35241-U	Universal Cable, OM2, 24 fibers, AI-DQ(ZN)BH, 24G50/125 $\mu$ , Multimode, color blue

### Fiber Optic Installation Cables - Multimode Class OM3

DK-35041/3-U	Universal Cable, OM3, 4 fibers, AI-DQ(ZN)BH, 4G50/125 $\mu$ , Multimode, color aqua
DK-35081/3-U	Universal Cable, OM3, 8 fibers, AI-DQ(ZN)BH, 8G50/125 $\mu$ , Multimode, color aqua
DK-35121/3-U	Universal Cable, OM3, 12 fibers, AI-DQ(ZN)BH, 12G50/125 $\mu$ , Multimode, color aqua
DK-35241/3-U	Universal Cable, OM3, 24 fibers, AI-DQ(ZN)BH, 24G50/125 $\mu$ , Multimode, color aqua

### Fiber Optic Installation Cables - Multimode Class OM4

DK-35041/4-U	Universal Cable, OM4, 4 fibers, AI-DQ(ZN)BH, 4G50/125 $\mu$ , Multimode, color violet
DK-35081/4-U	Universal Cable, OM4, 8 fibers, AI-DQ(ZN)BH, 8G50/125 $\mu$ , Multimode, color violet
DK-35121/4-U	Universal Cable, OM4, 12 fibers, AI-DQ(ZN)BH, 12G50/125 $\mu$ , Multimode, color violet
DK-35241/4-U	Universal Cable, OM4, 24 fibers, AI-DQ(ZN)BH, 24G50/125 $\mu$ , Multimode, color violet

...additional fibers on request.