

DIGITUS® Fiber Optic Installation Cable, Multimode



✓ Multimode 50/125 µm

✓ Available in OM2, OM3, OM4

✓ Flame retardant & rodent protection

✓ LSZH outer jacket

Abstract

DIGITUS® Fiber Optic Installation Cable, Multimode OM3 50/125 µm

Features

- Multimode
- Universally useable, for indoor and outdoor application
- Central loose tube cable
- Dry interstices
- Color coded fibers
- Available in 4, 8, 12 fibers
- Glass yarn armoured
- Metal free
- Non-metal rodent protection
- UV-resistant
- Halogen-free, flame-resistant according to IEC 332-3 C
- Longitudinally and laterally water-resistant
- Storage temperature: -30 °C bis zu +70 °C
- Cord rewind temperature: -10 °C bis zu +50 °C
- Operating temperature: -30 °C bis zu +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 jacket | LSZH (Low Smoke Zero Halogen) |
| Tensile loading | 1200 N |
| Material central loose tube cable | Polybuteneterpheteleta (PBT) |
| Diameter central loose tube cable | 3.5 mm |
| Filling | Thyrotrophic jelly |
| Lateral compressive strength | Permanent 200 N/cm, temporary 500 N/cm |
| Bending radius | min. 20x outer diameter |
| Impact strength | 20 nm |
| Compressive strength | 1500 N |
| Repeated bending | 10xD / 50 N load (10 bending) |
| Core diameter | 50 ± 2.0 µm |
| Out-of-roundness of core | ≤ 5% |
| Fiber sheath diameter | 125 ± 1,0 µm |
| Jacket concentricity failure | ≤ 1 µm |
| Out-of-roundness of jacket | ≤ 0.7% |
| Coating diameter | 242 ± 5 µm |
| Out-of-roundness of coating | ≤ 5% |
| Coating concentricity failure | ≤ 12 µm |
| Test load | ≥ 8.8 / N ≥ 1% / ≥ 100 Kpsi |

Optical P

| | | OM2 | OM3 | OM4 |
|------------------------------------|--------------|---------------|--------|--------|
| Typical attenuation (dB/km) | 850 nm | ≤ 2.5 | | |
| | 1300 nm | ≤ 0.7 | | |
| Bandwidth (MHz/km) | 850 nm | ≤ 500 | ≤ 1500 | ≤ 3500 |
| | 1300 nm | ≤ 500 | | |
| Length of link | 1000 Base-SX | 550 | 900 | 1100 |
| | 1000 Base-LX | 550 | | |
| | 10 GBAS-SX | 82 | 300 | 550 |
| Numeric aperture (NA) | - | 0.200 ± 0.015 | | |
| Index of refraction (IOR) | 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 OM3, 1 Meter in length

DK-35041/3-U Universal Cable, OM3, 4 fibers, AI-DQ(ZN)BH, 4G50/125 μ , Multimode, color black
DK-35081/3-U Universal Cable, OM3, 8 fibers, AI-DQ(ZN)BH, 8G50/125 μ , Multimode, color black
DK-35121/3-U Universal Cable, OM3, 12 fibers, AI-DQ(ZN)BH, 12G50/125 μ , Multimode, color black

Fiber Optic Installation Cables - Multimode Class OM3, 500 Meter length

DK-35042/3-U-500 Universal Cable, OM3, 4 fibers, AI-DQ(ZN)BH, 4G50/125 μ , Multimode, color black
DK-35082/3-U-500 Universal Cable, OM3, 8 fibers, AI-DQ(ZN)BH, 8G50/125 μ , Multimode, color black
DK-35122/3-U-500 Universal Cable, OM3, 12 fibers, AI-DQ(ZN)BH, 12G50/125 μ , Multimode, color black