

DIGITUS® Fiber Optic Universal Cable – Singlemode 9/125 OS2



✓ G.652.D compliant

✓ Singlemode 9/125 OS2

✓ LSZH sheath

Abstract

DIGITUS® Fiber Optic Indoor Cable – Singlemode 9/125 OS2

Features

- Best performance and link quality for your network
- Small diameter, light weight and friendly installation
- Suitable for External Aerial application
- High tensile strength of stranded wires meet the requirement of self-supporting and reduce the installation cost
- Good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant
- Special tube filling compound ensure a critical protection of fiber
- Small diameter, light weight and friendly installation
- TIA/EIA-568-B.3
- According to ISO/IEC 11801:2002 2nd Edition TYPE OS2
- TIA 492CAAB OS2
- ITU-T G.652D
- LSOH Sheath
- 9/125 OS2 Singlemode
- Standard Rodent Protection
- Fiber color code: Blue, brown, orange, green

Product Overview

DIGITUS® offers a wide range of high quality products of constantly available fiber optic patch cables. Practically every request and every requirement is covered by the broad range of connector types and fiber qualities. Every cable is individually tested after the assembly and is delivered with the test report. We would like to discuss your individual cable requests with you in order to realize them within the shortest time.

For the professional installation of optical fiber cables DIGITUS® offers a wide range of different types of installation cables. The DIGITUS® product range supplies all cable types, whether with 4, 8 12, or 24 fibers or in different qualities as OM1, OM2, OM3, OS1 and OS2. The halogen-free installation cables comply with the fire protection regulations for buildings.

The fibers, 250 μ m, either of single-mode or multimode type, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A layer of aramid yarn or high strength glass is applied around the cable core as additional strength member. Then, the cable is completed with the black LSOH sheath.

Product Print/Marking/Packaging

- Wooden drum
- DIGITUS® Sticker
- DIGITUS® DK-39041-A-F Optical Cable 4 Core G652D 9/125 SM LSZH 2015 [Batch Number]
- Product must have batch number and quality control report

Product Number Information

DK-39041-A-F OS2 4C 9/125 Loose Tube Aerial Cable, LSZH, black

Performance Overview

- Non-metal design can prevent the cable from radio interference and magnetic wave interference
- Specially designed compact structure is good at preventing loose tubes from shrinking
- Aramid yarn ensures good performance of tensile strength
- Loose tube filling compound ensure good moisture resistance performance
- High dense fiber packed, small diameter and light weight; it 's the better option for blowing installation process
- Good flexibility

Optical fiber in cable

- According to ISO/IEC 11801:2002 2nd Edition TYPE OS2
- TIA/EIA-568-B.3
- TIA 492CAAB OS2
- ITU-T G.652D

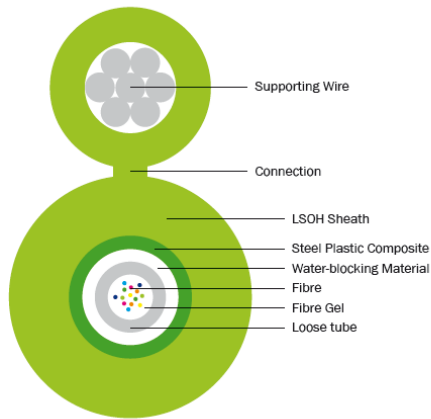
Technical Parameters

| Fiber Count | Cable Diameter mm | Cable Weight kg/km | Supporting Wire Spec | Connection Diameter | Tensile Strength | Crush Resistance | Bending Radius |
|-------------|-------------------|--------------------|--------------------------|--------------------------------|------------------|------------------|----------------|
| 2~12 | 7.65 × 14.5 | 118 | Ø1.0mm x 7 Stranded wire | Height x Width 3.0 x 2.5 mm | 1000/2500 | 300/1000 | 80/160 |
| 14~24 | 8.2 × 15.1 | 129 | Ø1.0mm x 7 Stranded wire | Height x Width 3.0 x 2.5 mm | 600/1500 | 300/1000 | 90/180 |

Optical Characteristics













| | | G.652D | G.655 | 50/125µm | 62.5/125µm |
|------------------------------|---------|-------------|-------------|--------------|---------------|
| Attenuation (+20°C) | @850nm | | | ≤3.0 dB/km | ≤3.0 dB/km |
| | @1300nm | | | ≤1.0 dB/km | ≤1.0 dB/km |
| | @1310nm | ≤0.36 dB/km | ≤0.40 dB/km | | |
| | @1550nm | ≤0.22 dB/km | ≤0.23dB/km | | |
| Bandwidth (Class A) | @850nm | | | ≥500 MHz·km | ≥200 MHz·km |
| | @1300nm | | | ≥1000 Hz·km | ≥600 MHz·km |
| Numerical Aperture | | | | 0.20±0.015NA | 0.275±0.015NA |
| Cable Cut-off Wavelength Acc | | ≤1260nm | ≤1480nm | | |

Cable Specifications



| | | |
|-----------------------|----------------|--|
| Number of fibers | Type | 4*9/125(OS2) Inside one loose tube |
| | Color | According to the standard chromatorgra |
| loose tube | OD | 2.15mm±0.05mm |
| | Material | PBT |
| | Color | According to the standard chromatorgra |
| | | Steel+cushlon |
| Outer Jacket | OD(Max) | 10.2mm±0.5mm |
| | Material | LSOH |
| | Color | Black |
| Optic Characteristic | Condition | 1310/1550 |
| | Attenuation | 0.36/0.22dB/km |
| Dispersion | 1550nm | ≤18ps(nm*km) |
| | 1625nm | ≤22ps(nm*km) |
| Operation Temperature | -40°C to +70°C | |

Color code

| Number of optical fibre or patch cord | FOTAG Code | Number of optical fibre or patch cord | FOTAG Code |
|---------------------------------------|--|---------------------------------------|---|
| 1 | Blue  | 7 | Red  |
| 2 | Orange  | 8 | Black  |
| 3 | Green  | 9 | Yellow  |
| 4 | Brown  | 10 | Purple  |
| 5 | Grey  | 11 | Pink  |
| 6 | White  | 12 | Turquoise  |