

## DIGITUS® Fiber Optic Outdoor Cable – Singlemode 9/125 OS2



✓ G.652.D compliant

✓ Singlemode 9/125 OS2

✓ LSZH sheath

### Abstract

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

### Features

- Best performance and link quality for your network
- G.652. D compliant
- 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  $\mu$  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-O-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-O-F OS2 4C 9/125 Loose Tube Outdoor 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

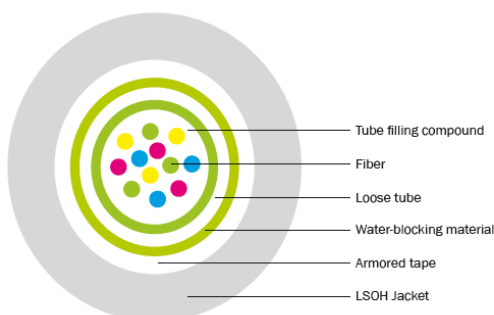
## Technical Parameters

Fiber Count	Cable Diameter mm	Cable Weight kg/km	Tensile Strength	Crush Resistance	Bending Radius
2~12	8.0±0.3	12	60/150	300/1000	10D/20D
14~24	4.6±0.3	15	60/150	300/1000	10D/20D
26~36	5.1±0.3	18	60/150	300/1000	10D/20D
26~36	5.6±0.3	22	60/150	300/1000	10D/20D

## 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)	
	Color	According to the standard chromatorgra	
Characteristic of loose tube	OD	2.4mm±0.05mm	
	Material	PBT	
Outer Jacket	OD(Max)	8.0mm±0.3mm	
	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 