

ZSFSS012LGYTS
Fiber Optic


For more information please call

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Description:

8 to 144 optical fibers, 900µm TPE tight buffer, LSZH jacketed sub-units with 12 fibers each and aramid yarn reinforcing, FRP central strength member, flame retardant LSZH outer jacket for indoor applications– IEC 60332-3C rated.

Suitable Applications:

High degree of flexibility suitable for backbone, horizontal, inner- and inter- building

Mechanical specification:

Fiber Cable Type	125/900 Micron
Number of Fibers	8 to 144

Tight Buffer Color Code Chart:

Number	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Aqua

Sub-unit Core Reinforce Material	Aramid yarn
Sub-unit Jacket Material	LSZH
Sub-unit Color Code & Identification	Same as the color of outer jacket; Sequential numbers print on each sub-unit jacket.

Strength Member:

Central Strength Member Material	Central strength member
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Outer Jacket:

Outer Jacket Material	Outer jacket
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Overall Cable:

Overall Nominal Diameter & Bulk Cable Weight:

# Fibers	Overall Nominal Diameter (mm)	Bulk Cable Weight (kg/km)
8	10	80
24	10	80
48	11	100
72	10.5	100
96	11.8	130

Mechanical specification:

Operating Temperature Range	- 20°C To + 60°C
Storage Temperature Range	- 20°C To + 60°C
Max. Load for Installation	660 N, Passes IEC794-1
Max. Load for Long Term	400 N, Passes IEC794-1
Max. Crush Resistance for Installation	1000 N/100mm, Passes IEC794-1
Max. Crush Resistance for Long Term	300 N/100mm, Passes IEC794-1
Bend Radius	≤25D

Applicable Specification Agency Compliance:
Applicable Standards:

IEC Specification	60794-1
EU RoHS Compliant (Y/N)	Y
EU RoHS Compliance Date	April 2021

Flame Test:

IEC Flame Test	60332-3C
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Suitability:

Suitability – Indoor (Y/N)	N
Suitability - Outdoor (Y/N)	Y
Suitability - Aerial (Y/N)	N
Suitability – Duct (Y/N)	Y
Suitability – Direct Burial (Y/N)	Y
Sunlight Resistance (Y/N)	Y

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Physical Characteristics(Connectivity):

ZS	F	S	S	08	L	This field is required
Manufacturers	Fiber Type	Fiber Type	Fiber Type	Connector Count (per side)	Fire Rating	Optical cable structure

ZS	F-Fiber	S-Splice	3-OM3 4-OM4 5-OM5 S-OS2	012 024 048 072 144	L-LSZH P-Plenum R-Riser	GYTS G652D OS2
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Hangzhou Zsine Optoelectronic Technology Co.,Ltd.

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Single Mode Fibers	G652.D(OS2)
Typical Mode Field Diameter @1310nm	9.2 ± 0.4 μm
Typical Mode Field Diameter @1550nm	10.4 ± 0.5 μm
Cladding Diameter	125 ± 0.7 μm
Clad Non-Circularity	≤ 0.7 %
Primary Coating Material	Acrylate
Primary Coating Diameter	245 ± 5 μm
Tight Buffer Material	TPE
Tight Buffer Diameter	900 ± 50 μm
Max. Attenuation @ 1310nm	0.40 dB/km
Max. Attenuation @ 1550nm	0.30 dB/km
Zero Dispersion Wavelength	1302 – 1322 nm
Max. Slope @ Zero Dispersion Wavelength	0.090 ps/(nm ² ·km)
Refractive Index @1310nm	1.466
Refractive Index @1550nm	1.467

Multi-Mode Fibers	62.5μm om1	50μm om2	50μmom3	50μmom4
Typical Core Diameter	62.5 ± 2.5 μm	50.0 ± 2.5 μm	50.0 ± 2.5 μm	50.0 ± 2.5 μm
Cladding Diameter	125 ± 1.0 μm	125 ± 1.0 μm	125 ± 1.0 μm	125 ± 1.0 μm
Clad Non-Circularity	≤ 1 %	≤ 1 %	≤ 1 %	≤ 1 %
Primary Coating Material	Acrylate	Acrylate	Acrylate	Acrylate
Primary Coating Diameter	245 ± 7 μm	245 ± 7 μm	245 ± 7 μm	245 ± 7 μm
Tight Buffer Material	TPE	TPE	TPE	TPE
Tight Buffer Diameter	900 ± 50 μm	900 ± 50 μm	900 ± 50 μm	900 ± 50 μm
Max. Attenuation @ 850nm	3.5 dB/km	3.5 dB/km	3.5 dB/km	3.5 dB/km
Max. Attenuation @ 1300nm	1.5 dB/km	1.5 dB/km	1.5 dB/km	1.5 dB/km
Overfilled Bandwidth @ 850nm	200 MHz.km	500 MHz.km	1500 MHz.km	3500 MHz.km
Overfilled Bandwidth @ 1300nm	600 MHz.km	500 MHz.km	500 MHz.km	500 MHz.km
Numerical Aperture	0.275 ± 0.015	0.275 ± 0.015	0.275 ± 0.015	0.275 ± 0.015
Refractive Index @ 850nm	1.496	1.482	1.482	1.482
Refractive Index @ 1300nm	1.491	1.477	1.477	1.477
Max. Transmission Distance@850nm	300 m	550 m	1000 m	1000 m
Max. TransmissionDistance@1300nm	550 m	550 m	600 m	600 m