



# STRUCTURED CABLING SYSTEMS

## DIGISOL Pigtail, Single Mode (OS2), LSZH Type

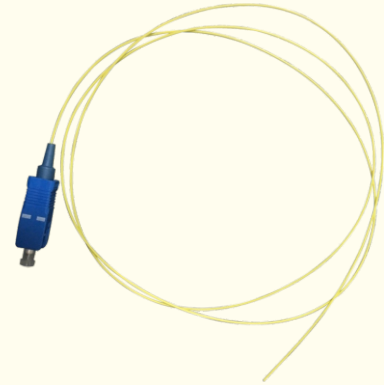


### Introduction:-

DIGISOL Fiber Optic Single Mode OS2 Pigtails are offered in LSZH jackets with corning fiber. Available in a variety of different connectors in simplex options with low insertion loss. Supported for a wide variety of applications.

### Key Features:-

- Pigtails are factory terminated and 100% tested for performance.
- Pull proof UPC or APC type connectors to prevent disconnect.
- 0.9mm cordage meets high density requirement during installation
- Low smoke Zero Halogen (LSZH) rated jacket to reduce toxic/corrosive gases.
- Low insertion loss and Return loss
- Available with corning fiber
- Available in Simplex variants



### Technical Specifications:-

Connector Type	: SC, LC, FC, ST
Fiber Type	: OS2 G.652D (9/125µm Corning Clear Curve)
Number of Fibers	: 1F tight jacketed (Simplex),
Cable Diameter (mm)	: 0.9 ± 0.05
Jacket Color	: Yellow
Jacket Material	: LSZH
Connector Color	: Blue (UPC Type), Green (APC Type) Steel Body (ST, FC)

### Mechanical Specifications:-

Bend Radius (min.)	: 10D
Crush Resistance	: 100N/100mm
Connector Cable Retention	: 3 N (0.67 lbs)
Connector Ferrule	: Ceramic
Connector Repeatability	: ≤ 0.2dB (1000 times mating cycle)
Coating Strip Force	: ≤ 13.3 N

### Optical Specifications:-

Mode Field Diameter	: 9.2 ± 0.4 µ (@1310nm) 10.4 ± 0.5 µ (@1550nm)
Attenuation (Max)	: ≤ 0.36 dB/km (@1310nm) ≤ 0.25 dB/km (@1550nm)
Chromatic Dispersion	: ≤ 3.5 ps/nm.km (@1285 - 1330nm) ≤ 18 ps/nm.km (@1550nm)
Zero Dispersion Wavelength	: 1300 - 1324 nm
Cut off Wavelength	: ≤ 1260 nm
Cladding Diameter	: 125 ± 0.7 µm

### Environmental Specifications:-

Storage Temperature	: -20 °C to +70° C
Installation Temperature	: -20 °C to +70° C
Operating Temperature	: -20 °C to +70° C

### Standards:-

IEC 60332-1  
ANSI/TIA 568-C.3 & ISO/IEC 11801  
RoHS compliance: Directive 2002/95/EC

### Optical Performance:-

	SM (UPC Type) (@1310 & 1550 nm)			
	SC	LC	ST	FC
Insertion Loss (dB)	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
Return Loss (dB)	≥ 50	≥ 50	≥ 50	≥ 50
	SM (APC Type) (@1310 & 1550 nm)			
	SC	LC	ST	FC
Insertion Loss (dB)	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
Return Loss (dB)	≥ 60	≥ 60	≥ 60	≥ 60

### Ordering Information:-

Part Codes	Description
DGF-TS2SXXW-ZL	DIGISOL PIGTAIL, SM(OS2), SIMPLEX XX, WW TYPE, ZM, LSZH

Note: XX - Types of connectors SC, LC, FC, ST  
W / WW - P / UPC type or A / APC type connector  
Z - Length in meters 1, 2, 3 & above

Example: DGF-TS2SSCP-1L - DIGISOL PIGTAIL, SM(OS2), SIMPLEX SC, UPC TYPE, 1M, LSZH  
DGF-TS2SLCA-1L - DIGISOL PIGTAIL, SM(OS2), SIMPLEX LC, APC TYPE, 1M, LSZH

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