



STRUCTURED CABLING SYSTEMS

DIGISOL Patch Cord, Single Mode (OS2), LSZH Type

Introduction:-

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



Key Features:-

- Patchcords are factory terminated and 100% tested for performance.
- Pull proof UPC or APC type connectors to prevent disconnect.
- 2mm 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 and Duplex variants
- Available in Hybrid Patchcords with different connectors at both ends



Technical Specifications:-

Connector Type	: SC, LC, FC, ST (End A) SC, LC, FC, ST (End B)
Fiber Type	: OS2 G.652D (9/125µm Corning Clear Curve)
Number of Fibers	: 1F jacketed (Simplex), 2F zipcord jacketed (Duplex)
Buffer Diameter (mm)	: 0.9 ± 0.05
Jacket Thickness (mm)	: 0.35 ± 0.05
Cable Diameter (mm)	: 2.0 ± 0.2 (Simplex) 2.0 x 3.8 ± 0.2 (Duplex)
Strength Member	: Aramid Yarn
Jacket Color	: Yellow
Jacket Material	: LSZH
Connector Color	: Blue (UPC Type), Green (APC Type) Steel Body (ST, FC)

Mechanical Specifications:-

Bend Radius (min.)	: 20D
Crush resistance	: 100N/100mm
Connector Cable Retention	: 50 N (11.24 lbs)
Connector Ferrule	: Ceramic
Connector Repeatability	: ≤ 0.2dB (1000 times mating cycle)

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-PS2DXXYYWZL	DIGISOL PATCHCORD, SM(OS2), DUPLEX XX-YY, WW TYPE, ZM, LSZH
DGF-PS2SXXYYWZL	DIGISOL PATCHCORD, SM(OS2), SIMPLEX XX-YY, WW TYPE, ZM, LSZH
DGF-PS2DXXWYYWZL	DIGISOL PATCHCORD, SM(OS2), DUPLEX XX-W-YY-WW TYPE, ZM, LSZH
DGF-PS2SXWYYWZL	DIGISOL PATCHCORD, SM(OS2), SIMPLEX XX-W-YY-WW TYPE, ZM, LSZH

Note: XX - Types of connectors SC, LC, FC, ST
YY - Types of connectors SC, LC, FC, ST

Z - Length in meters 1, 2, 3 & above, A=10, B=15, C=20 & above
W / WW - P / UPC type or A / APC type connector

Example: DGF-PS2DLCSCP1L - DIGISOL PATCHCORD, SM(OS2), DUPLEX LC-SC, UPC TYPE, 1M, LSZH
DGF-PS2SLCPSCA1L - DIGISOL PATCHCORD, SM(OS2), SIMPLEX LC-UPC-SC-APC TYPE, 1M, LSZH

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