



STRUCTURED CABLING SYSTEMS

DIGISOL Patch Cord, Multi Mode, LSZH Type

Introduction:-

DIGISOL Fiber Optic Multimode Mode OM1/OM2/OM3/OM4 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	: OM1/OM2/OM3/OM4 (50/125µm 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	: Orange (OM1/OM2), Aqua (OM3/OM4)
Jacket Material	: LSZH
Connector Color	: Beige (UPC Type), Green (APC type) Steel Body (ST, FC)

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

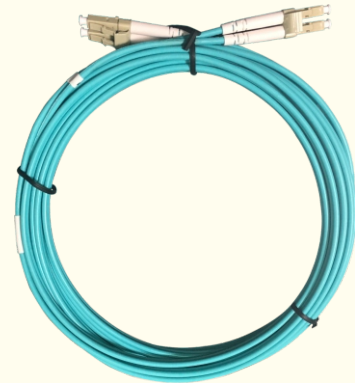
Ordering Information:-

Part Codes	Description
DGF-PVVDXXYYWZL	DIGISOL PATCHCORD, VVV, DUPLEX XX-YY, WW TYPE, ZM, LSZH
DGF-PVVSXXYYWZL	DIGISOL PATCHCORD, VVV, SIMPLEX XX-YY, WW TYPE, ZM, LSZH
DGF-PVVDXXYYWZL	DIGISOL PATCHCORD, VVV, DUPLEX XX-W-YY-WW TYPE, ZM, LSZH
DGF-PVVSXXYYWZL	DIGISOL PATCHCORD, VVV, SIMPLEX XX-W-YY-WW TYPE, ZM, LSZH

Note: XX - Types of connectors SC, LC, FC, ST Z - Length in meters 1, 2, 3 & above, A=10, B=15, C=20 & above
YY - Types of connectors SC, LC, FC, ST W / WW - P / UPC type or A / APC type connector

Example: DGF-PM1DSCSCP1L - DIGISOL PATCHCORD, MM(OM1) (62.5), DUPLEX SC-SC, UPC TYPE, 1M, LSZH
DGF-PM1SLCPSCA1L - DIGISOL PATCHCORD, MM(OM1) (62.5), SIMPLEX LC-UPC-SC-APC TYPE, 1M, LSZH

VV / VVV - M1 / MM(OM1) (62.5)
M2 / MM(OM2) (50)
M3 / MM(OM3) (50)
M4 / MM(OM4) (50)



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:-

	Core Dia. (µm)	Attenuation @850nm (dB/km)	Attenuation @1300nm (dB/km)	Bandwidth @850nm (MHz.km)	Bandwidth @1300nm (MHz.km)
OM1	62.5	≤ 3.5	≤ 1.5	≤ 200	≤ 500
OM2	50	≤ 3.0	≤ 1.0	≤ 500	≤ 500
OM3	50	≤ 3.0	≤ 1.0	≤ 1500	≤ 500
OM4	50	≤ 3.0	≤ 1.0	≤ 3500	≤ 500

Optical Performance:-

MM (UPC Type) (@850 & 1300 nm)				
	SC	LC	ST	FC
Insertion Loss (dB)	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
Return Loss (dB)	≥ 30	≥ 30	≥ 30	≥ 30
SM (APC Type) (@850 & 1300 nm)				
	SC	LC	ST	FC
Insertion Loss (dB)	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
Return Loss (dB)	≥ 60	≥ 60	≥ 60	≥ 60