



Rack

Passive Products

Fiber Products

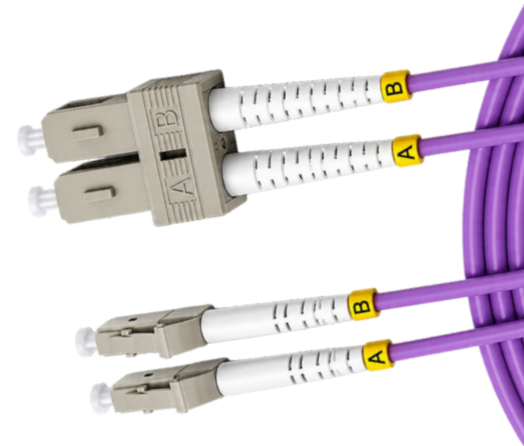
# Fiber Patch Cord Data Sheet

[www.dds-eg.com](http://www.dds-eg.com)



## OM4 LC-SC Patch Cord

OM4 SC-SC Patch Cord DuPlex OM4 SC-SC Fiber Optic Patch Cord (50/125µm) with LSZH Aqua Jacket, Precision Ceramic Ferrules, Low Insertion Loss, and SuPPort for 10G/40G/100G Ethernet. Ideal for Data Centers, Enterp rise Networks, SAN, and High-Speed Fiber Optic Applications.



### Technical Specifications

| Parameter                      | DDS OM4 Patch Cord Specification                |
|--------------------------------|-------------------------------------------------|
| Brand                          | DDS                                             |
| Product Type                   | Fiber Optic Patch Cord                          |
| Fiber Mode                     | Multimode                                       |
| Fiber Grade                    | OM4                                             |
| Fiber Type                     | 50/125 µm Graded Index                          |
| Fiber Construction             | Duplex                                          |
| Core Diameter                  | 50 µm                                           |
| Cladding Diameter              | 125 µm                                          |
| Operating Wavelength           | 850 / 1300 nm                                   |
| Primary Application Wavelength | 850 nm                                          |
| Connector A                    | LC/UPC Duplex                                   |
| Connector B                    | SC/UPC Duplex                                   |
| Connector Ferrule              | Ceramic                                         |
| Connector Interface            | LC-SC                                           |
| Polish Type                    | UPC                                             |
| Cable Jacket Color             | Violet / Purple                                 |
| Typical Cable OD               | 2.0–3.0 mm per fiber, depending on construction |
| Fiber Count                    | 2 Fibers                                        |
| Cable Type                     | Duplex Round Patch Cable                        |
| Insertion Loss                 | ≤ 0.30 dB typical                               |
| Maximum Insertion Loss         | ≤ 0.50 dB                                       |
| Return Loss                    | ≥ 35 dB typical                                 |
| Fiber Attenuation @ 850 nm     | ≤ 3.0 dB/km                                     |
| Fiber Attenuation @ 1300 nm    | ≤ 1.0 dB/km                                     |
| Minimum Bend Radius            | ≥ 10 × cable OD, installed                      |
| Minimum Bend Radius            | ≥ 20 × cable OD, during installation            |
| Operating Temperature          | -20°C to +70°C                                  |
| Storage Temperature            | -40°C to +85°C                                  |
| Relative Humidity              | 5%–95% RH, non-condensing                       |
| Polarity                       | Duplex A-B                                      |
| RoHS                           | Compliant                                       |
| Flame Rating                   | LSZH                                            |



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### Connector Specifications

| Parameter              | Specification       |
|------------------------|---------------------|
| Connector Type         | LC-SC Duplex        |
| Polish                 | UPC                 |
| Ferrule                | Ceramic             |
| Ferrule Diameter       | 2.5 mm nominal      |
| Coupling Mechanism     | Push-Pull           |
| Fiber Mode             | Multimode           |
| Connector Housing      | Polymer             |
| Dust Protection        | Protective Dust Cap |
| Typical Insertion Loss | $\leq 0.30$ dB      |
| Maximum Insertion Loss | $\leq 0.50$ dB      |
| Typical Return Loss    | $\geq 35$ dB        |

### Supported Network Applications

| Application                 | Typical Use   |
|-----------------------------|---------------|
| 1G Ethernet                 | 1000BASE-SX   |
| 10G Ethernet                | 10GBASE-SR    |
| 40G Ethernet                | 40GBASE-SR4*  |
| 100G Ethernet               | 100GBASE-SR4* |
| Data Center Networking      | ✓             |
| Server-to-Switch            | ✓             |
| Switch-to-Switch            | ✓             |
| Patch Panel Interconnection | ✓             |
| Fiber Distribution Frames   | ✓             |
| Enterprise LAN              | ✓             |
| Storage Networking          | ✓             |

### Part Numbers

| Model            | Description                      |
|------------------|----------------------------------|
| DFP-MM4DXLCSC-1  | LC-SC Duplex OM4 Patch Cord 1 m  |
| DFP-MM4DXLCSC-3  | LC-SC Duplex OM4 Patch Cord 3 m  |
| DFP-MM4DXLCSC-5  | LC-SC Duplex OM4 Patch Cord 5 m  |
| DFP-MM4DXLCSC-10 | LC-SC Duplex OM4 Patch Cord 10 m |
| DFP-MM4DXLCSC-20 | LC-SC Duplex OM4 Patch Cord 20 m |
| DFP-MM4DXLCSC-30 | LC-SC Duplex OM4 Patch Cord 30 m |