



**Product:** [FDSM006P2](#)

Indoor/Outdoor Plenum, OS2, 6 Fibers, Plenum

**Product Description**  
Indoor/Outdoor, OS2, Mini-Distribution, 6 Fibers, Plenum, 3.0mm, 16 x 250um Fiber

**Technical Specifications**

**Product Overview**

|                        |                                                                             |
|------------------------|-----------------------------------------------------------------------------|
| Product Category:      | Composite                                                                   |
| Suitable Applications: | Data Center, RAN, Horizontal Backbone, Premise Backbone, Patching, Trunking |

**Fiber Specifications**

|                      |            |
|----------------------|------------|
| Fiber Type:          | OS2        |
| Fiber Core Diameter: | 8.2/125 µm |
| Fiber Diameter:      | 250 µm     |
| Fiber Count:         | 6          |
| Fiber Color Coding:  | TIA-598-D  |

**Cable Construction**

|                            |                            |
|----------------------------|----------------------------|
| Number of Active Subunits: | 1                          |
| Fibers Per Subunit:        | 6                          |
| Subunit Diameter:          | 0.118 in (3.0 mm)          |
| Subunit Strength Members:  | Waterblocking aramid yarns |
| Central Strength Member:   | GRP                        |
| Cable Core Waterblocking:  | Waterblock Tape            |

**Outer Jacket Specifications**

|                     |                            |
|---------------------|----------------------------|
| Strength Member:    | Waterblocking Aramid Yarns |
| Jacket Material:    | PVC - Polyvinyl Chloride   |
| Nom. Diameter:      | 0.380 in (9.7 mm)          |
| Number of Ripcords: | 2                          |

**Optical Characteristics**

| Wavelength                      | 1310 nm    | 1550 nm    |
|---------------------------------|------------|------------|
| Max. Attenuation                | 0.40 dB/km | 0.30 dB/km |
| Mode Field Diameter             | 9.2 µm     | 10.4 µm    |
| 1 Gigabit Ethernet Performance  | 5,000 m    | --         |
| 10 Gigabit Ethernet Performance | 10,000 m   | 40,000 m   |

**Mechanical Characteristics**

|                                            |                 |
|--------------------------------------------|-----------------|
| Min. Bend Radius During Installation:      | 15x Cable OD    |
| Min. Bend Radius During Operation:         | 10x Cable OD    |
| Max. Tensile Strength During Installation: | 670 N (150 lbf) |
| Max. Tensile Strength During Operation:    | 200 N (45 lbf)  |
| Crush Resistance:                          | 220 N/cm        |

|                    |                       |
|--------------------|-----------------------|
| Bulk Cable Weight: | 33 lbs/kft (49 kg/km) |
|--------------------|-----------------------|

Temperature Range

|                                 |                |
|---------------------------------|----------------|
| Installation Temperature Range: | 0°C to +60°C   |
| Operating Temperature Range:    | -20°C to +70°C |
| Storage Temperature Range:      | -40°C to +70°C |

Standards and Compliance

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Sunlight Resistance, Burial |
| Sustainability:                  | CA Prop 65                                  |
| Flammability / Reaction to Fire: | OFNP, FT6                                   |
| ICEA Compliance:                 | S-104-696                                   |
| TIA/EIA Compliance:              | ANSI/ICEA S-104-696                         |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.82 Revision Date: 10-15-2024 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item #    | Color | UPC          |
|-----------|-------|--------------|
| FDSM006P2 | Black | 612825394235 |

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