



**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

### Outer Jacket Specifications

Strength Member:	Waterblocking Aramid Yarns
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 Temp Range:	0°C to +60°C
Operating Temp Range:	-20°C to +70°C
Storage Temp 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: 0.74 Revision Date: 04-08-2022
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