BELDEN

Product: FD5M024P2 ⧉

Indoor/Outdoor Plenum OM5 Mini-Distribution 24 Fibers 3mm SubUnit

Product Description

FX Indoor/Outdoor, OM5, Mini-Distribution, 24 Fibers, OFNP, 12F/Sub-Unit (3.0mm), Black Jacket

Technical Specifications

Product Overview

Product Category:	Fiber Mini Distribution Cable
Suitable Applications:	Premise Backbone

Fiber Specifications

Fiber Type:	OM5
Fiber Core Diameter:	50/125 µm
Fiber Diameter:	250 µm
Buffer Material:	PVC Thermoplastic
Fiber Count:	24
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	2
Number of Fillers:	2
Fibers Per Subunit:	12
Subunit Diameter:	0.120 in (3.0 mm)
Subunit Color:	Lime Green
Subunit Strength Members:	Waterblocking Aramid Yarns
Central Strength Member:	GRP
Cable Core Waterblocking:	Waterblock Tape

Outer Jacket Specifications

Jacket Material:	Thermoplastic
Nom. Diameter:	0.421 in (10.7 mm)
Color:	Black

Optical Characteristics

Wavelength	850 nm	953 nm	1300 nm
Max. Attenuation	3.0 dB/km	1.0 dB/km	1.0 dB/km
10 Gigabit Ethernet Performance	550 m	1100 m	1100 m
Min. Effective Modal Bandwidth (EMB)	4700 MHz.km	2470 MHz.km	--
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz.km	1850 MHz.km	500 MHz.km

Mechanical Characteristics

Min. Bend Radius During Installation:	15x Cable OD
Min. Bend Radius During Operation:	10x Cable OD
Max. Tensile Strength During Installation:	660 N (150 lbf)

Max. Tensile Strength During Operation:	200 N (45 lbf)
Crush Resistance:	220 N/cm

Temperature Range

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

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	OFNP, UL 910, FT6
NEC / UL Compliance:	OFNP
CEC / C(UL) Compliance:	OFNP
ICEA Compliance:	S-104-696
TIA/EIA Compliance:	ANSI/ICEA S-104-696
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

History

Update and Revision:	Revision Number: 0.22 Revision Date: 10-15-2024

Part Numbers

Variants

Item #	Color
FD5M024P2A	Aqua
FD5M024P2E	Erika Violet
FD5M024P2L	Lime Green
FD5M024P2O	Orange
FD5M024P2Y	Yellow