Product: DHIP162USD06J

Indoor Digital Electricity Hybrid Cable, OS2, 6 Distribution Fibers, #16-2pr, CL4P-OF, CMP-OF

Product Description

Indoor Digital Electricity Hybrid Cable, OS2, 6 Distribution Fibers, 4.5mm Sub-unit, 2- 16 AWG Pairs, Class 4, Plenum

Technical Specifications

Product Overview

Suitable Applications:	Fault Managed Power Systems (FMPS), Distributed Antenna Systems (DAS), Passive Optical Network (PON), Wireless Access Points (WAP), Security (Cameras), Power over long distances

Fiber Specifications

Fiber Type:	OS2
Fiber Core Diameter:	8.2/125 µm
Buffer Material:	PVC - Polyvinyl Chloride
Buffer Diameter:	900 µm
Fiber Count:	6
Fiber Color Coding:	TIA-598-D

Fiber Construction

Subunit Strength Members:	Aramid yarns
Fibers Per Subunit:	6
Nom. Jacket Diameter:	0.180 in. (4.6 mm)
Jacket Color:	Yellow

Conductor Specifications

AWG Size:	16
Number of Strands:	19x29
Conductor Type:	TC - Tinned Copper
Number of Pairs:	2
Insulation Material:	PVC
Nom. Insulation Diameter:	0.091 in. (2.3 mm)
Nom. Capacitance Cond-to-Cond:	30 pF/ft @ 10 kHz

Outer Jacket Specifications

Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.469" (11.9mm)
Color:	Apple Green
Number of Ripcords:	1

Optical Characteristics

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.50 dB/km	0.50 dB/km
Mode Field Diameter	9.2 µm	10.4 µm
1 Gigabit Ethernet Performance	5000 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:	2670 N (600 lbf)
Max. Tensile Strength During Operation:	800 N (180 lbf)
Crush Resistance:	220 N/cm
Bulk Cable Weight:	80 lbs/kft (119 kg/km)

Temperature Range

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

Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
NEC / UL Compliance:	CL4P-OF-FMP (2.0A), CMP-OF
ICEA Compliance:	S-120-742
TIA/EIA Compliance:	ICEA S-120-742

History

Update and Revision:	Revision Number: 0.130 Revision Date: 11-27-2023