



**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 |
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