



Product: [DHIP182USB02C](#)

Indoor Digital Electricity Hybrid Cable, OS2, 2 Breakout Fibers, #18-2pr, CL4P-OF, CMP-OF

Product Description

Indoor Digital Electricity Hybrid Cable, OS2, 2 Breakout Fibers, 3.0mm Sub-units, 2- 18 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 μ m
Buffer Material:	PVC - Polyvinyl Chloride
Buffer Diameter:	900 μ m
Fiber Count:	2
Fiber Color Coding:	TIA-598-D

Fiber Construction

Subunit Strength Members:	Aramid yarns
Fibers Per Subunit:	1
Nom. Jacket Diameter:	0.118 in. (3.0 mm)
Jacket Color:	Yellow

Conductor Specifications

AWG Size:	18
Number of Strands:	19x30
Conductor Type:	TC - Tinned Copper
Number of Pairs:	2
Insulation Material:	PVC
Nom. Insulation Diameter:	0.076 in. (1.9 mm)
Nom. Capacitance Cond-to-Cond:	30 pF/ft @ 10 kHz

Outer Jacket Specifications

Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.383" (9.7mm)
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 μ m	10.4 μ m
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:	83 lbs/kft (124 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: 04-14-2023
----------------------	--

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.