

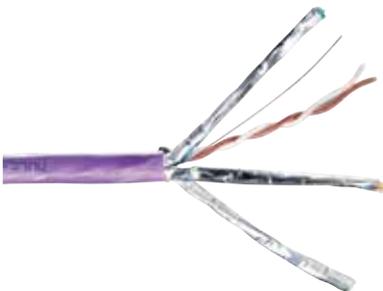
# PowerCat 6A U/FTP LS0H Cable Cca-s1a,d0,a1 Easy-pull box >

Molex PowerCat 6A U/FTP LS0H cable is supplied in an easy pull box for the support of Category 6A shielded installations.

The cable is constructed of four screened pairs with a drain wire and enclosed in a Cca-s1a, do,a1 rated sheath compliant with the EU and GB Construction Products Regulation (CPR).

Molex recommends that the full range of PowerCat C6A Shielded products be used in a system to maximize cabling performance. The system is compliant with ISO/ IEC 11801:2017 and ANSI/TIA-568.2-D for the support of 10GBASE-T.

**Available in UK / EU only.**



## FEATURES AND ADVANTAGES

Supplied in 305m easy-pull boxes for convenient handling and speedy installation

Robust signal isolation required for C6A transmission performance

Color coded for ease of termination

Reaction to Fire Euroclass Cca-s1a,d0,a1

## APPLICATIONS

PowerCat 6A U/FTP easy-pull cable is compliant with ANSI 568.2-D and ISO 11801:2017 Category 6A in the following configurations:

- Two connector permanent link and channel when installed with PowerCat 6A DataGate Jack part nos: KSJ-00096-02 and KSJ-00096-04 and Molex C6A shielded patch cords.
- Two, three and four connector permanent link and channel when installed with PowerCat 6A Keystone Jack part nos: KSJ-00079, KSJ-00088, KSJ-00092 and KSJ-00095 and Molex C6A shielded patch cords.

[www.molex.com/products/copper/cat6a/](http://www.molex.com/products/copper/cat6a/)

# PowerCat 6A U/FTP LS0H Cable Cca-s1a,d0,a1 Easy-pull box >

## SPECIFICATIONS

### Commercial Standards

ISO 11801:2017,  
ANSI/TIA-568.2-D-2018,  
IEC 60332-1, IEC 61034-1&2,  
IEC 60754-1 & 2  
IEC 60332-3-22 (3A)

### Fire Propagation Tests

EU Regulation 305/2011 (CPR)  
EN 50575:2014+A:2016  
Euroclass: Cca-s1a,d0,a1

### Mechanical

**Conductor Size:** 0.55+/-0.005mm  
**Primary Insulation:** Polyethylene  
**Sheath Type:** LS0H  
**Screen material:** Al-foil  
**Drain wire:** Tinned copper  
**External O.D:** 7.4 +/-0.3mm  
**Sheath Color:** Violet RAL4005  
**Average NVP%:** 74% (nom.)  
**Minimum bend radius:** 8 x o.d.  
**Maximum Pulling force:** 80N  
**Operating Temperature:**  
-20° to +70°C  
**Installation Temperature:**  
0° to + 50°C

### Electrical

**1.0-250 MHz Impedance ( $\Omega$ ):**  
100  $\pm$  15  
**200 - 250MHz Impedance ( $\Omega$ ):**  
100+/-22  
**300- 500MHz Impedance ( $\Omega$ ):**  
100+/-25  
**DC Resistance ( $\Omega$ /100m) max.:** 9.38  
**DC Conductor Resistance Unbalance (%)**: Maximum 5.0

### Physical

**Shipping weight 305m easy-pull box:**  
17kg

### PoE

**Our PowerCat 6A system is suitable for the most demanding PoE applications:**

IEEE 802.3bt from Type 1 to Type 4, and  
CISCO UPoE+

HD Base-T PoH up to 100W

RP3 compliant as defined by EN 50174-2:2018, ISO/IEC 14763-2:2019 and AS/NZS 14763.2:2020

### Notes:

For new installations of PoE Type 3 / Class 5 and above that wish to be eligible for the Molex 25 year Application Assurance Warranty, we require Category 6A cable to be used throughout.

To confirm your PoE / RP3 cabling design is eligible for the Molex 25 year Application Assurance Warranty, your design must be verified and validated with the Molex PoE Calculator. Read more

<https://www.molexces.com/poe-calculator>

Molex recommends that the PoE feature on an individual switch port are power disabled prior to unplugging the associated powered Device.

Molex recommends that the full range of PowerCat 6A products be used in a system to maximize cabling and PoE performance

Details on Molex requirements for Warranty can be found at:

<https://www.molexces.com/about-us/our-warranty/>

[www.molexces.com/products/copper/cat6a/](https://www.molexces.com/products/copper/cat6a/)

# PowerCat 6A U/FTP LS0H Cable Cca-s1a,d0,a1 Easy-pull box >

## TRANSMISSION PROPERTIES

Transmission Frequency MHz	1	4	10	16	20	31.25	62.5	100	200	250	300	500
<b>NEXTA</b> dB/100m	74.3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	39.8	38.3	37.1	33.8
<b>Characteristic Impedance</b> ohm	100+/- 15								100+/- 22	100+/- 25		
<b>Attenuation</b> dB/100m	2.1	3.8	5.9	7.5	8.4	10.5	15	19.1	27.6	31.1	34.3	45.3
<b>Return Loss</b> dB/100m	20	23	25	25	25	23.6	21.5	20.1	18	17.3	16.8	15.2
<b>ACRF</b> dB/100m	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8	18.3	13.8
<b>PSNEXTA</b> dB/100m	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3	33.3	31.8
<b>PSACRF</b> dB/100m	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8	15.3	10.8
<b>Delay</b> ns/100m	570	552	545	543	542	540	539	538	537	536	536	536
<b>Skew</b> ns/100m	45											

## ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00453-VL	183020068	PowerCat 6A U/FTP LS0H Cca-s1a,d0,a1 Violet 305m easy-pull box

[www.molex.com/products/copper/cat6a/](http://www.molex.com/products/copper/cat6a/)