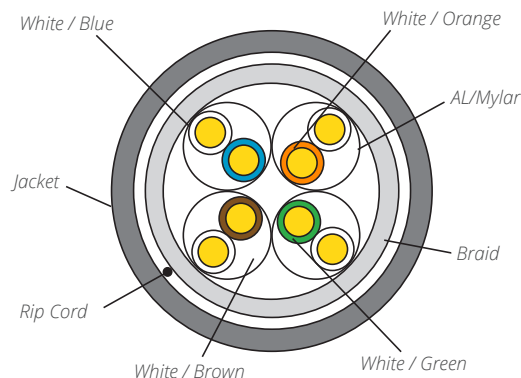


# Category 7A S/FTP LS0H Cable B2ca-s1a, d1,a1

Molex C7A S/FTP shielded cable is specifically designed to support high-speed data network applications. The cable is constructed of four screened pairs and a tin/copper braid. The cable is designed to minimize alien crosstalk and provide superior electromagnetic interference (EMI) protection.

The Category 7A cable is a complementary product for installation in the Molex PowerCat 6A system. The cable meets the transmission performance of the Category 7A 1000MHz transmission standard and is tested to 1.2MHz.



## FEATURES AND ADVANTAGES

Category 7A transmission performance

Tested to 1200MHz

Outstanding signal isolation

Enhanced performance 4 pair S/FTP foil and braid screened cable

Resistant to alien crosstalk

Color coded for ease of termination

Reaction to Fire Euroclass: B2ca-s1a, d1,a1

The cable supports up to 4 connectors with KSJ-00079 and KSJ-00088 jacks



## SPECIFICATIONS

### Commercial Standards

ISO 11801:2017

IEC 61156-5:2020

EN 50173:2018

EN 50288-9-1:2012

RoHS Compliant

### Reaction to Fire

EU Regulation 305/2011 (CPR)

Euroclass: B2ca-s1a,d1,a1

EN 50575:2014+A:2016

### Fire Propagation Tests

IEC 60332-1-1:2015

IEC 60332-1-2:2015

EN 61034-1 & 2:2019

EN 60754-1&2:2019

### Mechanical

**Conductor o.d.:** 0.580 +/- 0.005mm

**Conductor material:** Solid Bare Copper

**Pair Number:** 4

**Outer diameter:** 7.8mm +/-0.5mm

**Shield:** Al/Mylar

**Braid:** Tinned copper

**Temperature Range**

**Installation:** -10°C to + 50°C

**Operation:** -40°C to + 75°C

**Storage:** -20°C to +50°C

**Bend radius:** 8 x o.d.

**Pulling force:** ≥8.0 Mpa

**Sheath:** LS0H

**Sheath color:** Violet RAL 4005

**Shipping weight 500m reel:** 31kg

**Cable length tolerance:** +/- 5%

### Electrical @20°C

**Characteristic Impedance Ohm:**

1-100 MHz: 100 +/- 15 Ω

100 -250 MHz 100 +/- 18 Ω

250-1000 MHz 100 +/- 25 Ω

**DC Resistance Ω/100m max:** 9.38

**Resistance unbalance % max:** 2.0

**NVP nominal:** 74%

**Delay skew ns/100m max:** <25

# Category 7A S/FTP LS0H Cable B2ca-s1a, d1,a1

## TRANSMISSION PROPERTIES

Frequency MHz	RL≥dB	ATT≤dB	NEXT≥dB	DELAY ≤ns	PSNEXT≥dB	ELFEXT≥dB	PSELFEXT ≥dB
1	20.0	2.1	78.0	570.0	75.0	78.0	75.0
4	23.0	3.7	78.0	552.0	75.0	78.0	75.0
8	24.5	5.2	78.0	546.7	75.0	78.0	75.0
10	25.0	5.8	78.0	545.4	75.0	78.0	75.0
16	25.0	7.3	78.0	543.0	75.0	78.0	75.0
20	25.0	8.2	78.0	542.0	75.0	78.0	75.0
25	24.3	9.2	78.0	541.2	75.0	77.3	74.3
31.25	23.6	10.3	78.0	540.4	75.0	75.4	72.4
62.3	21.5	14.6	78.0	538.6	75.0	69.4	66.4
100	20.1	18.5	75.4	537.6	72.4	65.3	62.3
200	18.0	26.5	70.9	536.5	67.9	59.3	56.3
250	17.3	29.7	69.4	536.3	66.4	57.3	54.3
300	17.3	32.7	68.2	536.1	65.2	55.8	52.8
600	17.3	47.1	63.7	535.5	60.7	49.7	46.7
1000	15.1	61.9	60.4	535.1	57.4	45.3	42.3
*1200	13.1	68.4	59.2	535.0	56.2	33.7	30.7

\*Reference values

## ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00441-VL	183530013	Category 7A S/FTP Cable LS0H B2ca-s1a, d1, a1 violet 500m reel

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