



Product: [2181LP](#)

Lighting & Automation, 2C 12AWG, 1C 18AWG, 1Pr 22AWG, CL2P

### Product Description

Lighting & Automation Cable, 2C 12 AWG 7x20 stranded, bare copper conductors unshielded, FEP insulation (power), 1C 18 AWG 7x26 stranded, bare copper conductor unshielded, FEP insulation and 1 (data) pair 22 AWG 7x30 stranded bare copper, FEP insulation, Beldfoil@shield w drain, overall Flamarrest® LS PVC jacket, CL2P rated.

### Technical Specifications

#### Product Overview

Suitable Applications:	Media, automation, light control
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#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	1	18 AWG	7x26	BC - Bare Copper
Pair(s)	1	22 AWG	7x30	BC - Bare Copper
Conductor(s)	2	12 AWG	7x20	BC - Bare Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.009 in (0.23 mm)	0.064 in (1.6 mm)	Orange, Violet & White, Black & Red
Pair(s)	FEP - Fluorinated Ethylene Propylene	0.011 in (0.28 mm)	0.051 in (1.3 mm)	Violet, White
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.011 in (0.28 mm)	0.111 in (2.82 mm)	Red, Black

##### Inner Shield

Shield Type	Material	Coverage	Drainwire Type
No Shield			
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
No Shield			

##### Outer Shield

Material
No Shield

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.017 in (0.43 mm)	0.256 in

Overall Cable Diameter (Nominal): 0.256 in

#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Conductor(s)	6.5 Ohm/1000ft			4 Amps per Conductor
Pair(s)	17.9 Ohm/1000ft (58.7 Ohm/km)	17.4 Ohm/1000ft (57.1 Ohm/km)	25 pF/ft (82 pF/m)	2.2 Amps per Conductor at 25°C
Conductor(s)	1.6 Ohm/1000ft (5.2 Ohm/km)			9.6 Amps per Conductor

## Voltage

UL Voltage Rating
300 V

## Mechanical Characteristics

### Temperature

UL Temperature	Operating
60°C	0°C to +60°C

### Bend Radius

Stationary Min.	Installation Min.
2.56 in (65.0 mm)	2.56 in

Max. Pull Tension:	220 lbs (100 kg)
Bulk Cable Weight:	70 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Reaction to Fire:	NFPA 262 (UL910), FT6
NEC / UL Compliance:	Article 725, CL2P
CEC / C(UL) Compliance:	CL2P
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	2181LA

## History

Update and Revision:	Revision Number: 0.63 Revision Date: 12-20-2022
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
2181LP 009250	White	Reel	250 ft	612825352662
2181LP 009500	White	Reel	500 ft	612825352679
2181LP 0091000	White	Reel	1,000 ft	612825352686

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