



Product: [2181LA](#)

Lighting & Automation, 2C 12AWG, 1C 18AWG, 1Pr 22AWG, CL2R

Product Description

Lighting & Automation Cable, 2C 12 AWG 7x20 stranded, bare copper conductors unshielded, PVC insulation (power), 1C 18 AWG 7x26 stranded, bare copper conductor unshielded, PVC insulation and 1 (data) pair 22 AWG 7x30 stranded bare copper, Polypropylene insulation, Beldfoil@shield w drain, overall PVC jacket, CL2R rated.

Technical Specifications

Product Overview

Suitable Applications:	Media, automation, light control
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Pairs
18	7x26	BC - Bare Copper	0.046 in	1	
22		BC - Bare Copper	0.029 in		1
12		BC - Bare Copper	0.089 in	2	

Insulation

Material	Nominal Diameter
PP - Polypropylene	0.059 in
PP - Polypropylene	0.052 in
PP - Polypropylene	0.113 in

Color Chart

Number	Color
1	Orange
2	Violet & White
3	Black & Red

Inner Shield Material

Type	Layer	Material	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Position
No Shield	18 AWG Conductor					
Tape	22 AWG Pair	Bi-Laminate (Alum+Poly)	100%	TC - Tinned Copper	24	Under Shield Tape
No Shield	12 AWG Conductors					

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.276 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
6.5 Ohm/1000ft
16.1 Ohm/1000ft

1.6 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor

25 pF/ft

Current

Max. Recommended Current [A]

3.5 Amps per Conductor

2 Amps per Conductor

8.4 Amps per Conductor

Voltage

UL Description	UL Voltage Rating
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18 AWG	300V RMS
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22 AWG	300V RMS
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12 AWG	300V RMS
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Temperature Range

UL Temp Rating:	60°C
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Operating Temp Range:	-20°C to +75°C
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Mechanical Characteristics

Bulk Cable Weight:	70 lbs
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Max. Pull Tension:	172 lbs
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Min Bend Radius/Minor Axis:	2.8 in
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Standards

NEC/(UL) Compliance:	CL2R
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CEC/C(UL) Compliance:	CL2R
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Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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EU Directive 2011/65/EU (ROHS II):	Yes
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EU Directive 2012/19/EU (WEEE):	Yes
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EU Directive 2015/863/EU:	Yes
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EU Directive Compliance:	Yes
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EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
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Suitability

Suitability - Burial:	No
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Suitability - Hazardous Locations:	No
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Suitability - Indoor:	Yes
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Flammability, LSOH, Toxicity Testing

UL Flammability:	UL 1666 Riser
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Plenum Number:	2181LP
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
2181LA 204250	Blue, Light/White	Reel	250 ft	612825352563
2181LA 204500	Blue, Light/White	Reel	500 ft	612825352570
2181LA 2041000	Blue, Light/White	Reel	1,000 ft	612825352556

History

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