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1-800-Belden1



### General Description:

Lighting & Automation Cable, Rated-CL3, 2-12 AWG bare copper conductors unshielded, PVC insulation (power), 1-18 AWG bare copper conductor unshielded, PVC insulation and 1 (data) pair 22 AWG stranded bare copper, Polypropylene insulation, Beldfoil® shield w drain, PVC jacket.

### Usage (Overall)

Suitable Applications: Automation/Lighting Control

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
	1	22	7x30	BC - Bare Copper
1		18	7x26	BC - Bare Copper
2		12	7X20	BC - Bare Copper

Total Number of Conductors: 5

#### Insulation

Insulation Material:

Insulation Material	AWG
PP - Polypropylene	22
PP - Polypropylene	18
PP - Polypropylene	12

#### Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)	Stranding Dia. (mm)	Conductor Material
22 AWG Pair	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100		

Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: No

#### Overall Cable

Overall Nominal Diameter: 7.010 mm

#### Pair

Pair Color Code Chart:

Number	Color
1	Purple & White (22AWG)
2	Red & Black (12AWG)
3	Org (18AWG)

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

## METRIC MEASUREMENT VERSION

### 2181LA Multi-Conductor - Media, Automation and Lighting Control

Bulk Cable Weight:	148.820 Kg/Km
Max. Recommended Pulling Tension:	867.399 N
Min. Bend Radius/Minor Axis:	76.200 mm

#### Applicable Specifications and Agency Compliance (Overall)

##### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL3R
CEC/C(UL) Specification:	CL3R
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

##### Flame Test

UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4

##### Suitability

Suitability - Indoor:	Yes
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##### Plenum/Non-Plenum

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

#### Electrical Characteristics (Overall)

##### Nom. Capacitance Conductor to Conductor:

Description	Capacitance (pF/m)
22 AWG Pair	82.025

##### Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
22AWG	52.824
18AWG	21.327
12AWG	5.250

##### Max. Operating Voltage - UL:

Voltage
300 V RMS

##### Max. Recommended Current:

Description	Current
22AWG	3.8 Amps per conductor @ 25°C
18AWG	7.2 Amps per conductor @ 25°C
12AWG	17.2 Amps per conductor @ 25°C

#### Notes (Overall)

Notes: Sequential footage marking every two feet.

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
2181LA 2041000	1,000 FT	72.000 LB	BLUE, LIGHT/WHITE		2#12+1#18+1FSPR #22 PO FRPVC
2181LA 204250	250 FT	19.000 LB	BLUE, LIGHT/WHITE		2#12+1#18+1FSPR #22 PO FRPVC
2181LA 204500	500 FT	37.000 LB	BLUE, LIGHT/WHITE		2#12+1#18+1FSPR #22 PO FRPVC

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## **2181LA Multi-Conductor - Media, Automation and Lighting Control**

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