



For more Information  
please call

1-800-Belden1



### General Description:

Lighting & Automation Cable, Plenum-CMP, 2-12 AWG bare copper conductors unshielded, FEP insulation (power) and 1-18 AWG bare copper conductor unshielded, FEP insulation and 1 (data) pair 22 AWG stranded bare copper, FEP insulation, Beldfoil® shield w drain, Flamarrest® 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
FEP - Fluorinated Ethylene Propylene	22
FEP - Fluorinated Ethylene Propylene	18
FEP - Fluorinated Ethylene Propylene	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 Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Outer Jacket Ripcord: No

#### Overall Cable

Overall Nominal Diameter: 6.502 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: 0°C To +60°C

## 2181LP Multi-Conductor - Lighting Control Cable

Bulk Cable Weight:	116.080 Kg/Km
Max. Recommended Pulling Tension:	862.951 N
Min. Bend Radius/Minor Axis:	69.850 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2P
CEC/C(UL) Specification:	CL2P
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:	NFPA 262
CSA Flame Test:	FT6

#### Suitability

Suitability - Indoor:	Yes
-----------------------	-----

#### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	2181LA

### 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
2181LP 0091000	1,000 FT	73.000 LB	WHITE		1FSPR #22+2 #12+1#18 FEP FLRST
2181LP 009250	250 FT	18.750 LB	WHITE		1FSPR #22+2 #12+1#18 FEP FLRST
2181LP 009500	500 FT	37.000 LB	WHITE		1FSPR #22+2 #12+1#18 FEP FLRST

Revision Number: 0 Revision Date: 04-08-2015

© 2017 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

## **2181LP Multi-Conductor - Lighting Control Cable**

All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).