

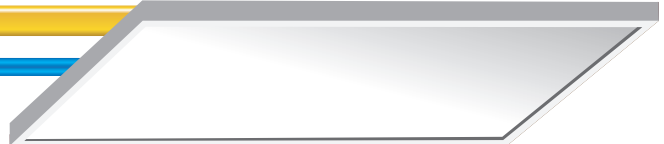
# Romex® Brand SIMpull® NM-B-PCS Duo™ POWER & CONTROL/SIGNAL CABLE

## CODE COMPLIANT

Install Separate Data/Control Cable and Type NM-B Cable.



**SAFE** *but inefficient*



Separation	600V	Listed	\$
✓	N/A	✓	\$\$\$

## NON-CODE COMPLIANT

Single Cable with Class 1 circuit for lighting, and 600V conductors for Class 2 circuit or listed Class 2 cable.



**UNSAFE** *but efficient*



Separation	600V	Listed	\$
✗	✓	✓	\$

## CODE COMPLIANT

### **Type NM-B-PCS Duo™ Cable**

UL & NEC Compliant  
600V conductors for power/lighting circuit, and 600V conductors encased in 30 mil jacket for Class 2 & 3 control and signal cable.



**SAFE** *and EFFICIENT*



Separation	600V	Listed	\$
✓	✓	✓	\$

The Power of Connections™



**Southwire®**

# Frequently Asked Questions

## 1. Is Type NM-B-PCS Listed for combining power and control/signal conductors?

**YES**, UL developed the special designation “PCS” for Type NM cables to denote that the required 30 mil jacket is utilized over the 600 volt rated control/signal conductors.

## 2. Are there any special requirements for separation of conductors, splices or terminations?

- NEC Section 725.136 rules need to be followed for separation between power and communication/signal conductors.
- Separation in Type NM Cable...
  - Type NM-B-PCS is listed to assure proper separation is provided by requiring a 30 mil jacket over the control/signal conductors per 725.136(I)(1)
- Separation in compartment, enclosure, outlet box, device box...

*By Distance...*

- Routed to maintain 0.25 inch separation in associated equipment per 725.136(D) or
- Separated by 2 inches for other applications per 725.136(I)

*By Barriers...*

- Separated by barriers per 725.136(B) or 725.136(D)
- Permanently separated by porcelain tubes or flexible tubing 725.136(I)(2)

## 3. Can Type NM-B-PCS be used for wiring other than LED lighting control circuits rated 0 to 10 volts?

**YES**, Type NM-B-PCS includes control/signal conductors rated 600 volts. The cable can be used with control signal applications that are Class 1, Class 2 and Class 3. It is not limited for use with LED lighting.

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### Safe efficient wiring is needed to install this new technology.

#### • UNSAFE:

1. Using a standard four wire Type NM-B Cable may be efficient but does not provide a safe installation for the Class2/Class 3 0-10 volt control circuit.
2. Using a single cable for lighting power and control circuit does not provide a safe installation for the Class 2/Class 3 0-10 volt control circuit.

#### • SAFE BUT INEFFICIENT:

1. Providing one cable for power and a separate path for the control circuit by using two paths including Type NM cable and a listed plenum Class 2 cable is safe but is inefficient.

#### • SAFE AND EFFICIENT:

1. Romex® Brand SIMpull® NM-B-PCS Duo™ Cable utilizes the most common cable construction to provide power to light fixtures combined with a 600 volt rated control circuit with PVC jacket to meet the NEC separation requirement and UL's listing requirements for Romex® Brand SIMpull® NM-B-PCS Duo™ Cable.
2. The allowed use for this cable is in the marks required by the listing... ***TYPE NM-B-Power, Control and Signal***



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