Romex® Brand SIM*pull*® NM-B-PCS Duo™

POWER & CONTROL/SIGNAL CABLE

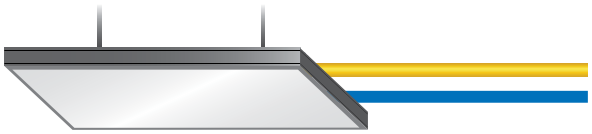
SAFE AND EFFICIENT

ROMEX® BRAND SIMpull® TYPE NM-B-PCS DUO™ CABLE

CODE COMPLIANT
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.

SEPARATION	600V	LISTED	COST
✓	✓	✓	✓

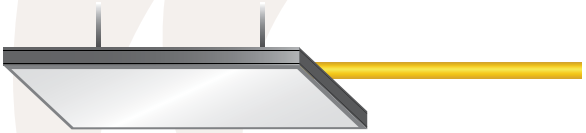
SAFE BUT INEFFICIENT



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

SEPARATION	600V	LISTED	COST
✓	N/A	✓	✗

UNSAFE BUT EFFICIENT



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

SEPARATION	600V	LISTED	COST
✗	✓	✓	✓

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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)*

4. Can Type MC-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.*

SAFE EFFICIENT WIRING IS NEEDED TO INSTALL 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 SIM*pull*® 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 SIM*pull*® 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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