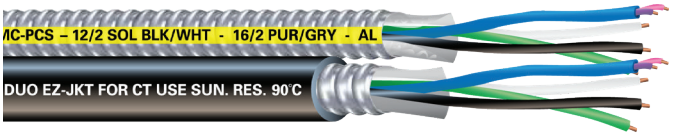
Southwire®

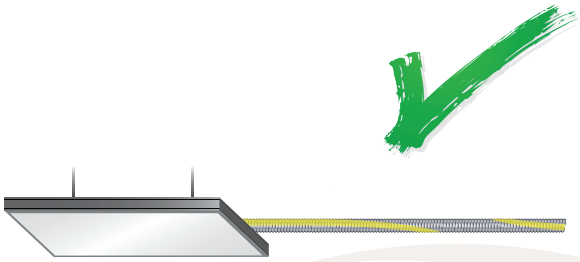
MC-PCS Duo™

POWER & CONTROL/SIGNAL CABLE

SAFE AND EFFICIENT



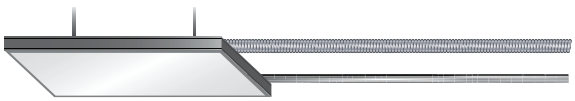
MC-PCS DUO™ CABLE



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
✓	✓	✓	✓

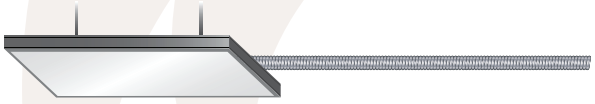
SAFE BUT INEFFICIENT



CODE COMPLIANT
Install Separate Conduit or Data/Control Cable and Type MC Cable.

SEPARATION	600V	LISTED	COST
✓	N/A	✓	✗

UNSAFE BUT EFFICIENT



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

SEPARATION	600V	LISTED	COST
✗	✓	✓	✓

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FREQUENTLY ASKED QUESTIONS

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

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

2. Can standard fittings be used with Type MC-PCS Cable?

YES, standard fittings listed for Type MC Cable can be used with Type MC-PCS for power, control and signal applications. Special fittings are not required.

3. 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 MC Cable*
  - *Type MC-PCS is listed to assure proper separation is provided by requiring a 30 mil jacket over the control/signal conductors per 725. 136(l)(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(l)*

  By Barriers…
  - *Separated by barriers per 725.136(B) or 725.136(D)*
  - *Permanently separated by porcelain tubes or flexible tubing 725.136(l)(2)*

4. Can Type MC-PCS be used for wiring other than LED lighting control circuits rated 0 to 10 volts?

YES, Type MC-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 EFFECIENT WIRING IS NEEDED TO INSTALL NEW TECHNOLOGY

• UNSAFE

1. Using a standard four-wire Type MC Cable may be efficient but does not provide a safe installation for the Class 2/Class 3 0-10 volt control circuit.
2. Using a single conduit 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 INEFFECIENT

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

• SAFE AND EFFECIENT

1. Type MC-PCS Duo™ cable utilizes the most common cable construction to provide power to troffers and combines 600 volt rated control circuit with PVC jacket to meet the NEC separation requirement and UL's listing requirements for TypeMC-PCS Cable.
2. The allowed use for this cable is in the marks required by the listing… ***TYPE MC-Power, Control and Signal***

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