

UNDERWRITERS LABORATORIES INC. CERTIFICATION REQUIREMENT DECISION

This Certification Requirement Decision is prepared by UL LLC. It is normative for the applicable UL Product Certification Program(s); however, it is currently not part of the UL Standard(s) referenced below.

Product Category (CCN): DUZX

Standard Number: UL 444

Standard Title: Standard for Communications Cables

Edition Date: January 20, 2017

Edition Number: 5

Section / Paragraph Reference:

Subject: Use of an Additional 14 AWG Conductor in a Multi-conductor Communications Cable

DECISION:

Table 4
Conductor metal and application

(See Clause 5.1.6.)

Conductor metal	Conductor size (AWG)	Application
Copper	30- ~~16~~ *	Multiple-conductor or Coaxial Cable
Copper	30-16	Cross-connect Wire (Cable)
Copper	15-6	Coaxial or Audio Cable
Copper-clad steel or Copper-clad aluminum	30-6	Coaxial Cable only

* Conductors 14 – 6 AWG are permitted to be used as an additional single conductor in a multiple-conductor cable provided the cable is marked as described in Par. 9.1.8.

9.1.8 For a cable, other than a coaxial cable, employing 15 - 6 AWG copper conductors, the following wording shall be provided: "For use in audio applications only." For a cable employing a single 14 – 6 AWG single conductor, in addition to the conductors used for the communications circuit, the following wording shall be provided " _____ AWG conductor shall be used for equipment grounding only" in addition to the AWG size of the conductors used for the communications circuit. The blank to be filled in with the AWG size of the single conductor.

RATIONALE FOR DECISION:

There are applications where cables are routed between switchboards of industrial machines and there is a need to provide grounding/bonding of the products in addition to providing the Communication Circuit.

In such applications, a communication cable such as type CM would need to include an integral 14AWG or larger size conductor to provide grounding/bonding in addition to other conductors used for the Communication circuit. Additionally, a grounding conductor of 14 AWG or larger is permitted for installation in accordance with the NEC (NFPA 70 800.100).

Copyright © 2018 UL LLC

UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL



Documents

Document Sharing Hub

UL LLC, in performing its functions in accordance with its objectives, does not guarantee or warrant the correctness of Certification Requirement Decisions it may issue or that they will be recognized or adopted by anyone. Certification Requirement Decisions are the opinion of UL LLC. in practically applying the requirements of the standard. They do not represent formal interpretations of the standard under American National Standards Institute (ANSI) processes. UL LLC shall not be responsible to anyone for the use of or reliance upon Certification Requirement Decisions by anyone. UL LLC shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use or reliance upon Certification Requirement Decisions. The electronic version of the Certification Requirement Decision is the current version and previously printed copies may be outdated.

This document is published as a service to UL's certification customers

UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL



Documents

Document Sharing Hub