

UNDERWRITERS LABORATORIES INC. CERTIFICATION REQUIREMENT DECISION

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Product Category (CCN): PJAZ
Standard Number: UL 1569
Standard Title: Standard for Metal-Clad Cables
Edition Date: November 13, 2014
Edition Number: 4
Section / Paragraph Reference: 9.4
Subject: Binder Jacket
SUPERCEDES PRIOR CERTIFICATION REQUIREMENT DECISION DATED 2014-12-19

DECISION:

9.4 Inner Jacket (NEW)

9.4.1 In any cable employing both power and/or lighting conductors and signal and/or control conductors (with or without one or more optical-fiber members included in the group) intended for use in Class 2 or 3 circuits, the group or groups of the signal and/or control conductors within the cable shall be enclosed in a 75°C PVC inner jacket that complies with Table 12.1. The thicknesses of an inner jacket shall not be less than indicated in Table 9.4 when measured as described in 9.3.2.

**Table 9.4
Thickness of inner jacket**

Calculated diameter of round assembly under inner jacket or calculated length of major axis of flat assembly under inner jacket		Minimum average thickness		Minimum thickness at any point	
Inch	mm	mils	mm	mils	mm
0 - 0.700	0 - 17.78	30	0.76	24	0.61
Over 0.700 but not over 1.500	Over 17.78 but not over 38.10	45	1.14	36	0.91
Over 1.500 but not over 2.500	Over 38.10 but not over 63.50	60	1.52	48	1.22

40.1 (q) NEW

q) The designation “-PCS” for cable that has an inner jacket complying with the requirements in 9.4. The “-PCS” designation, where employed, shall be added as a suffix immediately following the type letters.

41.1 (r) NEW

r) For a cable that employs both power and/or lighting conductors and signal and/or control conductors (with or without one or more optical-fiber members included in the group) and that has an inner jacket complying with the requirements in 9.4, the following wording or other wording to the same effect:

“Contains power and/or lighting as well as signal and/or control conductors per NEC Section 725.136(I)(1)”

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RATIONALE FOR DECISION:

The wording of NEC article 725.136(l)(1) does not require Class 1 power and lighting circuit conductors to be separated from Class 2 and Class 3 circuit conductors if these Class 2 and Class 3 circuit conductors are in a non-metallic-sheathed cable. The wording of NEC article 725.136(l)(2) allows Class 1 power and lighting circuit conductors to be separated from Class 2 and Class 3 circuit conductors by flexible tubing.

This proposal adds requirements for a construction of Type MC cable that contains both power and/or lighting conductors as well as control and/or signal conductors and that employs an inner jacket of the same thickness as Type NM Nonmetallic-Sheathed cable.

A new section (9.4) is being added to include this inner jacket. Surface and tag marking are also being added to differentiate this cable from other Type MC cables.

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