

## STANDARD INFORMATION

**Standard:** UL 355

**Standard ID:** Cord Reels [UL 355:2004 Ed.10+R:10Jun2021]

**Previous Standard ID:** Cord Reels [UL 355:2004 Ed.10+R:07Oct2020]

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **June 10, 2023**

## IMPACT, OVERVIEW, AND ACTION REQUIRED

**Impact Statement:** Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

**Overview of Changes:** This revision is being issued to add requirements for cord reels with USB outlets. Specific details of new/revised requirements are found in table below.

***Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.***



## STANDARD INFORMATION

| CLAUSE | VERDICT | COMMENT   |
|--------|---------|---|
| 1      | Scope   | <p><b><i>New clause added;</i></b></p> <p>A cord reel shall be permitted to employ any of the following:</p>  |
| 1.6    |         | <p>a) An integral Class 2, LIMITED POWER SOURCE (LPS), PS1, or PS2 power supply provided with an integral output connector(s); or</p> <p>b) Specialty power units with integral Class 2 output connector(s); or</p> <p>c) Receptacles employing integral power supplies provided with Class 2, LPS, PS1, or PS2 output connector(s).</p>  |
| 6      | Info    | <p><b>Accessibility of Uninsulated Live Parts and Film-Coated Wire</b></p> <p><b><i>New clause added;</i></b></p>   |
| 6.9    |         | <p>With reference to 6.1 and 6.2, connectors and contacts supplied by an isolated secondary circuit complying with 16.20 – 16.22 may be accessible to the user.</p>   |
| 16     | info    | <p><b>Line and Load Connections</b></p> <p><b><i>New clause added;</i></b></p>  |
| 16.20  |         | <p>An integral Class 2, LPS, or PS1 or PS2 power supply provided with an integral output connector (s) provided in a cord reel shall comply with applicable construction and performance requirements of one of the following:</p> <p>a) As a Class 2 device as described in the Standard for Class 2 Power Units, UL 1310; or</p> <p>b) As an LPS or PS1 or PS2 energy source as described in the Standard for Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1.</p>  |
| 16.21  |         | <p><b><i>New clause added;</i></b></p> <p>Specialty power supply units with integral Class 2 output connectors employed in a cord reel shall comply with the construction and performance requirements as described in the Standard for Class 2 Power Units, UL 1310, for permanently-connected specialty (Class 2) power supply units intended for installation in outlet boxes.</p> <p>Exception: A cover plate incorporating a specialty power supply unit with integral Class 2 output connector(s) that has terminations relying solely upon friction or spring pre-loaded contact to external surfaces of wire-binding screwheads shall not be employed in a cord reel.</p> |



| CLAUSE | VERDICT | COMMENT |
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| 16.22 |  | <p><b>New clause added;</b></p> <p>Receptacles with integral power supplies with Class 2 output connector(s) employed in a cord reel shall comply with the construction and performance requirements for Receptacles with Integral Power Supplies with Class 2 Output Connectors as described in the Standard for Attachment Plugs and Receptacles, UL 498.</p> |
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| 16A |  | <p><b>New section added;</b></p> <p><b>Separation of Circuits</b></p> |
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| 16A.1 |  | <p>A cord reel employing isolated secondary circuits, such as Class 2, LPS, or PS1 or PS2 circuits, shall be provided with a barrier, physically secured by means other than friction, that separates the AC power circuit conductors from the conductors of the other circuits. Bonding of the equipment grounding conductor and the referenced conductors of isolated secondary circuits is permissible.</p> <p>Exception No. 1: A barrier is not required between conductors that are separated by a minimum spacing of 2 inches (50.8 mm), including lead dress.</p> <p>Exception No. 2: Conductors that are suitably insulated for the maximum AC power circuit voltage involved are not required to be separated from the AC power circuit conductors, when breakage or loosening of a conductor at a terminal in either circuit cannot result in contact between uninsulated parts of one circuit and uninsulated or inadequately insulated parts of the other circuit.</p> <p>Exception No. 3: For conductors other than AWM (traces on a printed-wiring board, terminals mounted on insulating blocks, and the like), the minimum separation between communication circuits and the AC.</p> |
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| 19 | Info | <b>Spacings</b> |
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**Minimum spacings, in (mm)**

| Table 19.1 | Maximum voltage rating of reel, V | General-use reel |       |              |        | Special-use reel            |       |
|------------|-----------------------------------|------------------|-------|--------------|--------|-----------------------------|-------|
|            |                                   | Through air      |       | Over surface |        | Through air or over surface |       |
|            | 0 - 50                            | <u>1/16</u>      | (1.6) | <u>1/16</u>  | (1.6)  | <u>1/16</u>                 | (1.6) |
|            | 51 - 250                          | 3/32             | (2.4) | 3/32         | (2.4)  | 1/16                        | (1.6) |
|            | 251 - 600                         | 3/8              | (9.5) | 1/2          | (12.7) | 1/4                         | (6.4) |



| CLAUSE | VERDICT | COMMENT   |
|--------|---------|---|
|        | Info    | <b>MARKING</b>  |
| 52     | Info    | <b>All Cord Reels</b>   |
|        |         | <i><b>New clause added;</b></i>   |
| 52.6   |         | A cord reel employing an output connector in compliance with 16.20 – 16.22 shall be permanently marked where visible to the user during normal operation with the following: "Class 2", "LPS", "PS1", or "PS2" as appropriate and the output electrical rating in volts and amperes and/or watts. The international symbol " $\sim$ " for AC shall be used and " $\text{— — —}$ " for DC. The symbol for amperes shall be "A", for volts "V" and for watts "W". |