UL Traceability Programs
Support Supply Chain Integrity and End User Sourcing Requirements

Determining that components used in UL Certified products are consistent with their descriptions in the "UL Follow-Up Service Procedure" is key to verifying compliance with UL requirements. Determining compliance of components used in UL Certified products is also an important step in bringing safer products to market. Additionally, maintaining the traceability of these components helps support the ongoing integrity of the supply chain, resulting in higher levels of confidence that components being received meet sourcing requirements.

When cable manufacturers sell their products to distributors and/or processors, who in turn perform a processing or respooling operation, the original UL label may no longer accompany the product when it leaves the distributor and / or processor. The original UL label provides evidence of UL Certification while the surface printed UL logo on the cable is a supplemental means of traceability and is not the primary evidence of UL Certification. Without evidence of UL Certification, the end-user may encounter traceability issues and / or held shipments if they cannot prove the cable they sourced as a component in their end product is in fact a UL Certified cable. Traceability issues are not limited to end-product manufacturers. If processed or respooled cables are sold directly to installers, construction may be halted by an authority if the installer is unable to provide evidence of UL Certification for the cables.

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What is WireTalk?

UL WIRETALK is one of the very first newsletters developed specifically for the wire and cable industry. It is intended to serve as a platform for UL’s Wire & Cable division to share news, information and insights with the industry’s key stakeholders.

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UL Traceability Programs Support Supply Chain Integrity and End User Sourcing Requirements

they are installing. The proliferation of counterfeit and substandard cable products in the marketplace makes the verification of UL Certification status more critical than ever to end users, from OEMs to installers.

To help support supply chain integrity while meeting the traceability needs of end users and ensuring that safe products make it to the market quickly, UL offers three traceability programs for wire and cable distributors and processors, detailed below:

Certified Processed Wire and Respooled Wire (ZKLU, ZKLU7) – This program provides traceability for a variety of Listed and Classified wire and cable types that have been subjected to processing after original manufacturing and UL labeling. This processing may include cutting to specified lengths, insulation stripped from one or both ends, soldering / tinning of the stripped ends and / or the attachment of simple terminations. These processed products would bear a UL Certified “Processed Wire” label, which is available in various piece count denominations. This program also covers respooling into smaller quantities, but respooled products would bear a UL Certified “Processed Wire Respooled” label. The label is applied to each respooled length and has no denomination. The Processed / Respooled label is attached to the tag, reel or smallest unit container into which the product is packaged. The distributor / processor is responsible for transferring onto their own tags all engineering tag markings provided by the original wire manufacturer.

Recognized Component Processed Wire and Respooled Wire (ZKLU2, ZKLU8) – The scope of this program is the same as the UL Certified Processed Wire and Respooled Wire program; however, it only covers the processing or respooling of Recognized Component Appliance Wiring Material (AWM).

Recognized Component Wiring Harnesses (ZPFW2, ZPFW8) – This program provides traceability for wiring harnesses that are assembled at off-site locations and intended for use as factory installed components at an end-product manufacturing facility. Harnesses are defined as components consisting of two or more wires joined electrically and / or mechanically, and may include connectors, plugs, strain reliefs, splices, etc. Harnesses should be constructed in accordance with a harness diagram or engineering specification provided by the end-product manufacturer. A UL Representative will verify that the components used in the manufacture of the harness comply with the end-product manufacturer’s requirements. One of the verifications will include the UL Certification status for the wire used in the harness and whether it was sourced directly from a UL Certified cable manufacturer or from a UL Certified respooler. If the harness is determined to be in compliance, it may be shipped with the UL Recognized Wiring Harness label. Additional traceability counterchecks are determined at the end-product manufacturing location to assure that all harness features comply with the end-product Follow-Up Service Procedure. Harnesses may be labeled individually or in bulk quantities.

As these are traceability programs, minimal to no testing is involved in establishing a UL Certification and turnaround time is quick. Standard labels are also available for each traceability program for immediate use by UL clients.

Should you have any questions or wish to submit for Certification, please contact Mr. Jeffrey Lutke at Jeffrey.Lutke@UL.com.
UL Announces Category 8 Verification Testing to ANSI/TIA-568C.2-1 and Category 8.1/8.2 to IEC 61156-9/10

With the Category 8 (CAT8) standards already published, it is important to have your cable, channel, and permanent links verified to ensure they can meet the high throughput demands of your data centers. With a view to address the needs of end-users, designers and installers looking for next-generation materials, UL has recently launched a new performance verification program for CAT8 Cable.

Category 8 cabling and components have been specified for transmission performance requirements up to 2 GHz for IEEE 25GBASE-T/40GBASE-T applications with a maximum length of 30 meters. This next-generation cabling offers four times the bandwidth of standard Category 6A cabling and is fully backward compatible with Category 6A cabling, including RJ45 connectivity.

As specified in the standards, the cable consists of four (4) thermoplastic insulated twisted pairs, 22 – 24 AWG conductors, employing an overall metallic shield and or individual pair shields under an overall thermoplastic jacket. Due to required shielding, installers and contractors will now need to ensure prudent cable / connector shield termination and proper grounding / bonding measures in their Local Area Network (LAN).

With the availability of Category 8 solutions, end-users and LAN infrastructure and building designers can now future-proof their facilities to meet the high demands of tomorrow’s data centers.

Updated Wire and Cable Marking Guide

UL developed the Wire and Cable Marking Guide to help code authorities, electric utilities, contractors, installers, users, designers, and other interested parties understand the markings found on wire and cable. The guide also references the applicable codes and standards in order to help facilitate a code-compliant installation.

Periodically, UL issues certifications under new categories or updates the markings that may be found on existing cable types. The new edition of the Marking Guide, expected to be published in July 2016, includes the category control number (CCN) as well as the marking requirements for several new categories. Optional markings related to existing categories are also included.

To confirm the current status of the new Marking Guide, please refer to the Code Authorities page on the UL website at www.ul.com/codeauthorities. Your comments and / or suggestions are welcome and appreciated and should be directed to:

UL Regulatory Services Department
e: ulregulatoryservices@ul.com
p: 800-595-9844
UL Issues Performance Verification of 4K Cables

UL issued its performance verification to 4K cables of the following applicants.

<table>
<thead>
<tr>
<th>Company Name</th>
<th>UL File No.</th>
<th>Product Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amphenol Assembletech (Xiamen) Co Ltd</td>
<td>DVAA.E484158</td>
<td>HDMI interface, 18 Gbps, Passive, 1m</td>
</tr>
<tr>
<td>He Jia Industrial (HK) Ltd</td>
<td>DVAA.E479165</td>
<td>HDMI interface, 18 Gbps, Passive, 1 - 4m</td>
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<tr>
<td>Johnson Components &amp; Equipments Co Ltd</td>
<td>DVAA.E482164</td>
<td>HDMI interface, 18 Gbps, Passive, 5m</td>
</tr>
<tr>
<td>Copartner Technology Corp.</td>
<td>DVAA.E479188</td>
<td>HDMI interface, 18 Gbps, Passive, 1.3m</td>
</tr>
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<td></td>
<td></td>
<td>HDMI interface, 18 Gbps, Passive, 7 m</td>
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</tbody>
</table>

These 4K verified cables are evaluated to meet the testing requirements of the UL4000 standard and its associated data transmission rate. These represent UL’s first performance verifications of 4K cables, which include a comprehensive follow-up and market surveillance program that helps insure a healthy and ongoing compliant supply chain.

With evolving 4K display technology becoming widely accepted in the marketplace, there is growing concern among brand owners, installers, retailers, and end-users about the reliability of the data transmission rate through the cables connecting 4K devices. A globally recognized and trusted UL Mark on your cables or packaging provides your customers confidence and peace of mind regarding the quality of the cables they purchase.

For additional information, please contact Anthony Tassone at Anthony.T.Tassone@UL.com.

UL Expands the Testing Services for Medium-Voltage and High-Voltage Cable in Various Destination Markets

UL has recently broaden our scope of service to provide testing service based not only on UL 1072 for Medium-Voltage Power Cables but also IEC based standard for Medium-Voltage (IEC 60502 1-30KV) and High-Voltage (IEC 60840 30-150KV) Power cable for various destination markets.

The service is to address the need for some of countries do not have their own standard and local certification scheme for Medium-Voltage/High-Voltage Power Cables but rely on Type Test Report or Global certificate to insure the quality of products. Besides, some of countries have developed their own standard but without local certification scheme also require type test report per their own standards. The type test report is also accepted by most of the emerging markets (e.g. in ASEAN region) for quality assurance purpose.

UL Work Flow for Application of Type Test Report

Manufacturers can choose any combination of our services to fit specific needs or have UL deliver a turnkey solution in which we handle the entire process and upon successful testing, deliver the type test report.

For additional information, please contact Park SooKil at SooKil.Park@UL.com.
New Category Code Number and Service Offering in the Second Quarter 2016

The following new Category Code Number (CCN) and service offering will be available in Q2, 2016.

New CCN: YEFX

This category covers multi-conductor, non-integrally jacketed cable consisting of power units and control / signal / communication units. Each of the units is laid parallel and bonded to the next unit or the units are twisted under an overall jacket. The complete construction may also include an overall armor. The cable is intended for use with specific equipment and devices that must be powered and controlled from the same cable, including lighting and sound units in theaters and ductless air-conditioning systems.

The conductors for the power units in this cable are either jacketed cable described in Chapter 3 or Article 400 of ANSI/NFPA 70, “National Electrical Code” (NEC), or they use insulated conductors described in Article 310 or 402 of the NEC. The signal / control units are jacketed cable using insulated conductors suitable for use in NEC Article 725 or 800 cable.

New Service Offering – Type TC-ER-JP

The 2017 NEC will introduce a new type, TC-ER-JP, in 336.10(9) informational note 1. Type TC-ER-JP is suitable for pulling thru structural members, similar to nonmetallic sheathed cables, type NM. In anticipation of the need for these products, UL published a Certification Requirement Decision (CRD) dated June 6, 2016. If the Pulling-Thru-Joists test is successfully completed on representative samples of Type TC-ER, the suffix –JP may be used.

For additional information, please contact Susan Stene at Susan.L.Stene@UL.com.
UL Statement on Brexit

UL’s mission is to help ensure safe products are in the marketplace. Until we know more about the details of the exit agreement, we will continue to move forward business as usual.

UL has a strong presence in Europe and will continue to grow and strengthen local relationships with European customers including those in the UK. We remain committed to being a Notified Body and will continue to deliver a CE marking service to meet customer needs for EU market access. Further, all certificates issued by UL International (UK) Ltd remain valid, and permit EU market access in accordance with the responsibilities placed upon Manufacturers.

Like any other business, we are watching the situation carefully to determine the potential outcome of exit negotiations once Article 50 has been initiated. Various cooperation solutions could be considered including the Norwegian model which uses EEA recognition, or the Switzerland model which uses Mutual Recognition Agreements to enable Notified Bodies to operate within the EU legislation.

We are currently focusing on supporting our customers as they navigate the current uncertainty and potential changes to their business. Regardless of the final model adopted, UL will continue to provide clear communication as the situation unfolds to help ensure that our customers have continued market access.

Should you have any questions or wish to submit for Certification, please contact Keith Sin at Keith.Sin@UL.com.