

## **Online Certifications Directory**



# **AVLV2.E47676 Appliance Wiring Material - Component**

## **Appliance Wiring Material - Component**

E47676

#### **Guide Information**

KROSCHU-KABELWERKE KROMBERG & SCHUBERT GMBH U CO

POSTFACH 220206 42372 WUPPERTAL, GERMANY

Table of Recognized Styles										
Single-conductor, thermoplastic insulation.										
<u>1002</u>	1037	<u>1119</u>	1265	<u>1304</u>	1420	<u>1511</u>	<u>1664</u>			
1003	1039	<u>1120</u>	<u>1266</u>	<u>1305</u>	1435	<u>1518</u>	<u>1674</u>			
1007	1054	<u>1146</u>	1274	<u>1309</u>	1436	<u>1519</u>	<u>1680</u>			
1011	<u>1061</u>	<u>1148</u>	1282	<u>1314</u>	1437	<u>1520</u>	<u>1692</u>			
1013	1063	<u>1158</u>	1283	<u>1324</u>	1438	<u>1521</u>	<u>1714</u>			
<u>1015</u>	1064	<u>1159</u>	1284	<u>1325</u>	1439	<u>1522</u>	<u>1729</u>			
<u>1017</u>	1065	<u>1160</u>	<u>1287</u>	<u>1326</u>	1443	<u>1545</u>	<u>1730</u>			
1018	1071	<u>1161</u>	1288	<u>1328</u>	<u>1475</u>	<u>1546</u>	<u>1731</u>			
<u>1019</u>	<u>1095</u>	<u>1162</u>	1289	<u>1341</u>	<u>1477</u>	<u>1569</u>	<u>1766</u>			
<u>1020</u>	<u>1096</u>	<u>1176</u>	<u>1291</u>	<u>1347</u>	<u>1478</u>	<u>1576</u>	<u>1774</u>			
<u>1021</u>	<u>1099</u>	<u>1184</u>	<u>1295</u>	<u>1348</u>	<u>1479</u>	<u>1581</u>	<u>10015</u>			
<u>1022</u>	<u>1107</u>	<u>1185</u>	<u>1296</u>	<u>1349</u>	<u>1480</u>	<u>1582</u>	<u>10042</u>			
<u>1023</u>	1108	<u>1186</u>	<u>1297</u>	<u>1350</u>	<u>1493</u>	<u>1589</u>	<u>10259</u>			
<u>1024</u>	1109	<u>1195</u>	<u>1298</u>	<u>1380</u>	1495	<u>1598</u>	<u>10335</u>			
<u>1026</u>	<u>1110</u>	<u>1208</u>	<u>1299</u>	<u>1381</u>	<u>1497</u>	<u>1605</u>	<u>10452</u>			
<u>1027</u>	1113	<u>1233</u>	<u>1300</u>	<u>1382</u>	1498	<u>1647</u>	<u>10482</u>			
1028	1115	<u>1235</u>	<u>1301</u>	<u>1386</u>	1499	<u>1650</u>	<u>10493</u>			
1034	1116	<u>1237</u>	1302	<u>1387</u>	<u>1500</u>	<u>1662</u>	<u>10526</u>			

<u>1035</u>	<u>1118</u>	<u>1239</u>	<u>1303</u>	<u>1418</u>	<u>1507</u>	<u>1663</u>	
Multiple-conductor, thermoplastic insulation.							
2089	<u>2121</u>	<u>2278</u>	<u>2387</u>	<u>2560</u>	<u>2777</u>	<u>2938</u>	<u>20167</u>
2090	2122	<u>2279</u>	<u>2388</u>	<u>2570</u>	<u>2778</u>	<u>2955</u>	<u>20170</u>
<u>2091</u>	<u>2123</u>	<u>2280</u>	<u>2414</u>	<u>2571</u>	<u>2785</u>	<u>2961</u>	<u>20181</u>
2092	<u>2124</u>	<u>2281</u>	<u>2439</u>	<u>2574</u>	<u>2786</u>	<u>2969</u>	<u>20200</u>
2093	<u>2125</u>	<u>2282</u>	<u>2446</u>	<u>2576</u>	<u>2789</u>	<u>2990</u>	<u>20201</u>
2094	<u>2126</u>	<u>2283</u>	<u>2447</u>	<u>2582</u>	<u>2833</u>	<u>2991</u>	<u>20207</u>
2095	<u>2127</u>	2284	2448	<u>2584</u>	<u>2835</u>	<u>2992</u>	<u>20216</u>
2096	2128	<u>2285</u>	<u>2461</u>	<u>2586</u>	<u>2839</u>	<u>2993</u>	<u>20233</u>
2097	2129	<u>2286</u>	<u>2462</u>	<u>2587</u>	<u>2841</u>	<u>2994</u>	<u>20235</u>
2098	<u>2262</u>	<u>2287</u>	<u>2463</u>	<u>2589</u>	<u>2842</u>	<u>20000</u>	<u>20241</u>
2099	<u>2263</u>	<u>2288</u>	<u>2464</u>	<u>2598</u>	<u>2885</u>	<u>20041</u>	<u>20402</u>
2100	<u>2264</u>	<u>2343</u>	<u>2490</u>	<u>2614</u>	<b>289</b> 7	<u>20042</u>	<u>20432</u>
<u>2101</u>	<u>2265</u>	<u>2344</u>	<u>2493</u>	<u>2626</u>	<u>2905</u>	<u>20060</u>	<u>20433</u>
2102	<u>2266</u>	<u>2345</u>	<u>2501</u>	<u>2630</u>	<u>2906</u>	<u>20066</u>	<u>20437</u>
<u>2103</u>	<u>2267</u>	2346	<u>2502</u>	<u>2651</u>	<u>2907</u>	20082	<u>20438</u>
2104	2268	<u>2347</u>	<u>2516</u>	<u>2653</u>	<u>2912</u>	<u>20083</u>	<u>20448</u>
<u>2106</u>	<u>2269</u>	<u>2350</u>	<u>2517</u>	<u>2654</u>	<u>2919</u>	<u>20084</u>	<u>20470</u>
<u>2107</u>	<u>2270</u>	<u>2351</u>	<u>2518</u>	<u>2655</u>	<u>2920</u>	<u>20090</u>	<u>20475</u>
2108	<u>2271</u>	<u>2352</u>	<u>2532</u>	<u>2656</u>	<u>2921</u>	<u>20112</u>	<u>20477</u>
<u>2112</u>	<u>2272</u>	<u>2353</u>	<u>2535</u>	<u>2661</u>	<u>2930</u>	<u>20113</u>	<u>20478</u>
<u>2113</u>	<u>2273</u>	<u>2354</u>	<u>2536</u>	<u>2662</u>	<u>2931</u>	<u>20121</u>	<u>20479</u>
2114	<u>2274</u>	<u>2355</u>	<u>2548</u>	<u>2668</u>	<u>2934</u>	<u>20132</u>	<u>20480</u>
<u>2115</u>	<u>2275</u>	<u>2384</u>	<u>2549</u>	<u>2704</u>	<u>2935</u>	<u>20141</u>	<u>20481</u>
<u>2116</u>	<u>2276</u>	<u>2385</u>	<u>2550</u>	<u>2709</u>	<u>2936</u>	<u>20153</u>	<u>21198</u>
<u>2117</u>	<u>2277</u>	<u>2386</u>	<u>2551</u>	<u>2726</u>	<u>2937</u>	<u>20155</u>	
Single-cond	uctor, therr	noset insula	tion.				
3066	<u>3074</u>	<u>3083</u>	<u>3113</u>	<u>3136</u>	<u>3141</u>	<u>3146</u>	<u>3208</u>
3067	<u>3075</u>	<u>3084</u>	<u>3123</u>	<u>3137</u>	3142	<u>3147</u>	<u>3209</u>
3069	<u>3076</u>	<u>3099</u>	<u>3133</u>	<u>3138</u>	<u>3143</u>	<u>3171</u>	<u>3210</u>
<u>3070</u>	<u>3077</u>	<u>3100</u>	<u>3134</u>	<u>3139</u>	<u>3144</u>	3172	
<u>3071</u>	<u>3078</u>	<u>3101</u>	<u>3135</u>	<u>3140</u>	<u>3145</u>	<u>3207</u>	
Single and multiple-conductor specialty items.							
<u>5097</u>	<u>5201</u>	<u>5268</u>	<u>5269</u>	<u>5326</u>			

Marking: Company name, voltage rating, temperature rating, conductor size, conductor material if other than copper,
and use.
LOOK FOR THE DECOCNITION MADY See Consul Information Decoding These Decognitions

For use only with equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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## **Online Certifications Directory**

## AVLV2.GuideInfo Appliance Wiring Material - Component

### **Appliance Wiring Material - Component**

The devices covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE EQUIPMENT SUBMITTED TO UNDERWRITERS LABORATORIES INC.

#### **GENERAL**

This category covers products that have been tested in accordance with the established procedures to define certain properties in order to facilitate the evaluation of their use in end-product equipment.

The wire/cable includes single and multi-conductor constructions of a wide range of conductor sizes, insulation thickness, and materials. "Hook-up wire" and "lead wire" are covered under this category but are not described as such. Wire is generally intended for the specific application as indicated on the tag, reel or smallest unit container.

A construction in any of the sections may include a jacket. Specialty wire and/or cable is intended for a specific application as defined for that construction.

A style page is used to describe the construction of each style number. The style page includes information such as temperature and voltage rating, conductor size and material, insulation material and thickness, jacket material and thickness (if provided), a description of any shields or coverings, the UL reference standard used to evaluate the product, Instructions to the Field Representative, the UL countercheck program tests, the required markings, and the use statement.

#### PRODUCT MARKINGS

Products Recognized under UL's Component Recognition Program are identified by markings on the attached tag, reel, or smallest unit container. The marking consists of:

- A. Wire/cable designation: AWM.
- B. Maximum temperature and voltage ratings.
- C. Recognized company name, trade name, other applicable mark or file number. When a Recognized company produces AWM in more than one location, an additional distinctive marking is provided that identifies the specific manufacturing location of the AWM.
- D. Size and quantity of conductors. The quantity and "AWG" or metric size in mm<sup>2</sup> of the conductors in wire or cable is provided, except for single conductor cable. For cable containing a mixture of sizes of individual or paired conductors, the size and quantity of each size conductor is provided (example: 2/18 AWG and 4/24 AWG).
- E. Conductor material.

- Exception: Conductor material marking is not required for unalloyed copper.
  - F. The conductivity of the conductor in percent of unalloyed copper. Reference IACS (International Annealed Copper Standard).
- Exception: Not applicable for unalloyed copper or 61 percent IACS aluminum.
  - G. Insulation and jacket material and average wall thickness (example: Insulation SRPVC 0.009 inch; Jacket: PVC 0.030 inch).
  - H. Use statement.
  - I. Date of manufacture by month and year. As an option, the date code may be printed on the cable in lieu of on the tag.
  - J. For cable that contains one or more optical fibers, the following statement or equivalent: "Optical-fiber portion(s) of cable are for installation as described in Article 770 and other applicable parts of the National Electrical Code, NFPA 70. Where optical fiber is installed in a laser system, the system shall comply with the LIA/ANSI Z136 laser system safety standards."
  - K. For cable that contains one or more optical fiber members, or group of such members, having a metal or other electrically conductive part, the following statement or equivalent: "Optical-fiber portion(s) of cable contains non-current-carrying metal or other electrically conductive parts."
  - L. For cable that contains a conductive polymeric shield, the shield is black in color, and the following wording or equivalent is included on the tag: "Black material is conductive shield" or "Contains Black Polymeric Conductive Shield."
  - M. For cable with mixed voltage rating, the voltage rating of each conductor is provided.

Additional marking may be required as described in each Recognized company's file. Wire that complies with the requirements of the VW-1 flame test is so marked.

#### REQUIREMENTS

The basic standard used to investigate products in this category is UL 758, "Appliance Wiring Material."

#### LOOK FOR THE RECOGNITION MARK

The Recognition Mark of Underwriters Laboratories, Inc. (shown below) on the attached tag, the reel or the smallest unit container in which the product is packaged is the only method provided by UL to identify products manufactured under its Recognition and Follow-Up Service.

The Listing or Classification Mark of Underwriters Laboratories Inc. is not authorized for use on, or in connection with, Recognized Components. Only those components which actually bear the "Marking" should be considered as being covered under the Component Recognition Program.



#### APPLIANCE WIRING MATERIAL

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