

CERTIFICATE OF COMPLIANCE

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Issued to: WAGO KONTAKTTECHNIK GMBH & CO KG
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**This certificate confirms that
representative samples of**

WIRE CONNECTORS AND SOLDERING LUGS
Listed Splicing Wire Connectors, Cat. No. 221 followed by
-41, -48, -61, -68 followed by 2, 3 or 5.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL486C and CSA C22.2 No. 188-13, Splicing Wire
Connectors.

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Bruce Mahrenholz, Director North American Certification Program
UL LLC

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File E69654
Project 4786182629

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REPORT

on

WIRE CONNECTORS AND SOLDERING LUGS

WAGO KONTAKTTECHNIK GMBH & CO KG
MINDEN

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DESCRIPTION

PRODUCT COVERED:

USL, CNL Listed Splicing Wire Connectors, Cat. No. 221 followed by
-41, -48, **-61**, **-68** followed by 2, 3 or 5.

GENERAL CHARACTER AND USE:

The devices described in this Report are of the following type.

Type of Wiring Termination -

Spring action

* The insulating housing/body described in this Report are molded from a
Recognized Component plastic (QMFZ2), in two pieces (bend and shaped under
temperature process so considered one piece) and provided with Operating
Leaver.

RATINGS:

Wire Range:

| Cat. Nos. | Wire Range, [AWG] | Wire Type [Cu] |
|--|----------------------|-------------------|
| 221-412, 221-413, 221-415, 221-482, 221-483, 221-485 | 24-12 | SOL/STR |
| | 24-18 | STR Prebonded |
| | 12 | STR Tinned |
| | 14 | STR Topcoated |
| 221-612, 221-613, 221-615, 221-682, 221-683, 221-685 | 20-10 | SOL/STR |
| | 20-18 | STR Prebonded |
| | 20-12 | STR Tinned |
| | 20-14 | STR Topcoated |

Insulation Temperature - The insulating bodies are molded of polymeric materials, as specified in the following tabulation. The operating temperature of these devices should not exceed the temperature ratings of the insulating materials. These materials may be used interchangeably at a maximum temperature of 105°C.

| Series | Part | Material designation and manufacture | Temperature |
|---------------------------|---------|--------------------------------------|-------------|
| 221 | Housing | | 105°C |
| 221-41x 221-61x | Lever | | 105°C |
| 221-48x 221-68x | Lever | | 105°C |

(See "Construction Details" for further information)

Flammability - Housing V-2, Lever V-0.

Wire strip length for Cat. Nos. 221-412, 221-413, 221-415 - 11.0 mm.

Wire strip length for Cat. Nos. 221-482, 221-483, 221-485 - 11.0 mm.

Wire strip length for Cat. Nos. 221-612, 221-613, 221-615 - 13.0 mm.

Wire strip length for Cat. Nos. 221-682, 221-683, 221-685 - 13.0 mm.

Voltage - 600V maximum, building wire: 1000V maximum, signs and luminaires.

NOMENCLATURE:

| | | |
|-----------------|-----------------|---------------|
| $\frac{221}{A}$ | $\frac{-41}{B}$ | $\frac{3}{C}$ |
|-----------------|-----------------|---------------|

A. Basic Type - Series 221

B. Model **Color/Size** -

-41 - Transparent Housing, Orange color lever

-61 - Transparent **Housing, Orange color lever**

-48 - Transparent Housing, Gray color lever

-68 - Transparent Housing, Gray color lever

C. Number of Poles

2 - Poles

3 - Poles

5 - Poles

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE):

General -

Products designated USL have been investigated using requirements contained in the Standard for Splicing Wire Connectors UL 486C.

Products designated CNL have been investigated using requirements contained in the Standard for Splicing Wire Connectors CSA C22.2 No. 188.

Corrosion Protection - All metal parts are of corrosion resistant material or are suitably plated or painted.

Tolerances - Unless otherwise specified, all dimensions are nominal.

Insulating materials - The following Recognized Component plastic (QMFZ2) materials are used for the Connector specified below.

| Series | Part | Material designation and manufacture | Temperature |
|---------------------------|---------|--------------------------------------|-------------|
| 221 | Housing | | 105°C |
| 221-41x 221-61x | Lever | | 105°C |
| 221-48x 221-68x | Lever | | 105°C |

Assembly instructions -

Connection - Stripped conductor is inserted into the connector entry and the Operating Leaver is pressed down.

Disconnection - The Operating Leaver is pull up.

Refer to the following photographs and description for further details of construction.

These devices or their single modules may be combined to the strips designated as part number 0221-xxxx followed by optional suffix /yyyy-zzzz where x, y and z are any customer number or digit (including characters), given for a specific end-use purpose.

Item numbers may be denoted with or without leading zeroes e.g. 0221-0612 or 221-612.