File E140310 Project 4787608008

January 12, 2017

REPORT

on

[Outlet Boxes and Fittings - Component] Outlet Bushings and Fittings - Component

JACOB GMBH Kernen, Germany

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File E140310 Vol. 2 Sec. 5 Page 1 Issued: 2017-01-12 and Report Revised: 2018-09-04

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component - Cord Connector Assemblies, Cat. Nos. F310-9035-02, F310-9057-01, F310-9080-03, F310-9102-02, F310-9125-04, F310-9035-01, F310-9080-01, F310-9080-02, F310-9102-01, F310-9125-01, F310-9125-02, F310-9125-03 KADL 5K, KADL 10K, KADL 15K, KADL 20K, KADL 25K, KADL 1K/2G, KADL 2K/4G, KADL 6K/2G, KADL 11K/2G, KADL 3K/6G, KADL 7K/4G, and KADL 16K/2G.

The	following	Cat.	Nos.	are	identical
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Cat. No.	Alternate Cat. No.
F310-9035-02	KADL 5K
F310-9057-01	KADL 10K
F310-9080-03	KADL 15K
F310-9102-02	KADL 20K
F310-9125-04	KADL 25K
F310-9035-01	KADL 1K/2G
F310-9080-01	KADL 2K/4G
F310-9080-02	KADL 6K/2G
F310-9102-01	KADL 11K/2G
F310-9125-01	KADL 3K/6G
F310-9125-02	KADL 7K/4G
F310-9125-03	KADL 16K/2G

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Products designated USL have been investigated using requirements contained in the Standard for Conduit, Tubing, and Cable Fittings, UL 514B.

Products designated CNL have been investigated using requirements contained in the Standard for Conduit, Tubing, and Cable Fittings, CAN/CSA-C22.2 No. 18.3.

Conditions of Acceptability -

- 1. These devices have been subjected to the Assembly Test, Oven Aging, Flexing Test and Pull Test in accordance with UL 514B and CSA C22.2 No. 18.3.
- 2. Pull forces used during the pull test are listed in the table * (pull tests were performed with the F311-9xxx-zz series of grommets.) Refer to Item 4 for additional information.
- 3. Testing was conducted using the screw mounts in the corners of this device. The suitability of the mounting of these cord connectors shall be considered in the end product.

CONSTRUCTION DETAILS:

Marking - Listee's trademark on device. Description No. on device.

Cat. No. and Description No. on smallest unit package.

The cord diameter range may be provided on the product or smallest unit container. Cord connectors shall be provided with instructions as per Ill. 1.

File E140310 Vol. 2 Sec. 5 Page 3 Issued: 2017-01-12 and Report Revised: 2018-06-29

Cat. No.	Description No.	Outside	Cord	Pull
	1	Diameter, mm	Range, mm	Force, kgs
F311-9001-01	TK 3-5	22.2	3 - 5	3 ³ or 2.26 ⁵
F311-9001-02	TK 5-7	22.2	5 - 7	5
F311-9001-03	TK 7-9	22.2	7 - 9	5
F311-9001-04	TK 9-11	22.2	9 - 11	5
F311-9001-05	TK 11-13	22.2	11 - 13	5
F311-9001-06	TK 13-15	22.2	13 - 15 ¹	5
F311-9001-07	TK 15-16	22.2	$15^2 - 16$	5
F311-9002-01	TG 15-17	38.7	15 - 17	5
F311-9002-02	TG 17-19	38.7	17 - 19	5
F311-9002-03	TG 19-21	38.7	19 - 21	5
F311-9002-04	TG 21-23	38.7	21 - 23	5
F311-9002-05	TG 23-25	38.7	23 - 25	5
F311-9002-06	TG 25-27 ⁴	38.7	25 - 27	5
F311-9002-07	TG 27-29	38.7	27 - 29	5
F311-9002-08	TG 29-31	38.7	29 - 31	5
F311-9002-09	TG 31-32.5	38.7	31 - 32.5	5

 $^{^1}$ Only when used with Cable tie by Panduit, Cat. No. PLT2S-C30, see item 5 2 Only when used with Cable tie by Hellerman Tyton, Cat. No. T50S, see item 5 3 When used with 5mm cable, this fitting may be marked for a 5 kg pull

5. Cable ties - UL Listed Cable Tie (ZODZ), E64963, Hellerman Tyton, Cat. No. T50S or UL Listed Cable Tie (ZODZ), E56854, Panduit Cat. No. PLT2S-C30 Assembled to cable/grommet after installation.

Illustrations:

Figs. 1 & 5	Assembly Configurations	
Figs. 2-4	Assembly Frame parts	
Ill. 1	Installation Instructions	
Ills. 2 & 3 Grommet Dimensions		
Ills. 4-10 Configured Plate Dimensions		

 $^{^4}$ For the KADL 1K/2G maximum clamping diameter is limited to 27 mm, and KADL 2K/4G and KADL 3K/6G maximum clamping diameter is limited to 27 mm in the upper row(s)

 $^{^5}$ When used with 3mm - 5mm cable, this fitting may be marked for a 2.26 kg pull and when used with 5mm cable, this fitting may be marked for a 5 kg pull in the models KADL 1K/2G, KADL 2K/4G, KADL 6K/2G, KADL 11K/2G, KADL 3K/6G, KADL 7K/4G, and KADL 16K/2G

CERTIFICATE OF COMPLIANCE

Certificate Number 20180711-E140310

Report Reference E140310-20170112

Issue Date 2018-JULY-11

Issued to: JACOB GMBH

Elektrotechnische Fabrik Gottlieb-Daimler-Strasse 11 71394 Kernen GERMANY

This is to certify that representative samples of

COMPONENT - OUTLET BUSHINGS AND FITTINGS

See next page for models

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 514B and CSA C22.2 No. 18.3-12, Standards for

Conduit, Tubing, and Cable Fittings

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: May be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components 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 UL LLC.

Look for the UL Certification Mark on the product.

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Bruce Mahrenholz, Director North American Certification Program

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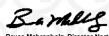


CERTIFICATE OF COMPLIANCE

20180711-E140310 **Certificate Number** E140310-20170112 Report Reference 2018-JULY-11 **Issue Date**

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Cord Connector Assemblies, Cat. Nos. F310-9035-02, F310-9057-01, F310-9080-03, F310-9102-02, F310-9125-04, F310-9035-01, F310-9080-01, F310-9080-02, F310-9102-01, F310-9125-01, F310-9102-01, F310-9125-01, F310-9102-01, F310-910-01, 9125-02, F310-9125-03 KADL 5K, KADL 10K, KADL 15K, KADL 20K, KADL 25K, KADL 1K/2G, KADL 2K/4G, KADL 6K/2G, KADL 11K/2G, KADL 3K/6G, KADL 7K/4G, and KADL 16K/2G.



Bruce Mahrenholz, Director North American Certification Program

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