

\*File E140310  
Project 93ME50061

Issued: May 11, 1993  
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REPORT

on

LIQUID-TIGHT FITTINGS FOR FLEXIBLE CORD

Jacob GmbH  
Kernen, Germany

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| Closures (Nonmetallic),<br>Series 10.XX15 PAVXXXX where XX is 20,<br>32, 40, 50 or 63;<br><b>Series 10.XX15 Y/G, where XX is 20, 32,<br/>40, 50 or 63.</b><br>Closures (Metallic), Series 10.XX15 M/G<br>where XX is 20, 32, 40, 50 or 63   | 2       | 2003-06-30  | USL, CNL,             |

## DESCRIPTION

## PRODUCT COVERED:

USL, CNL Liquid-Tight Fittings for Flexible Cord Cat. Nos.  
 50.016PAzzzz, 50.029PAzzzz, 50.036PAzzzz, 50.042PAzzzz,  
 50.048PAzzzz, 50.029PA/Rzzzz, 50.036PA/Rzzzz,  
 50.042PA/Rzzzz, 50.048PA/Rzzzz, 50016M20PAzzzz,  
 50.029M32PAzzzz, 50.036M40PAzzzz, 50.042M50PAzzzz,  
 50.048M63PAzzzz, 50029M32PA/Rzzzz, 50036M40PA/Rzzzz,  
 50042M50PA/Rzzzz, 50048M63PA/Rzzzz. 50.110PA/Rzzzz,  
 50.114PAzzzz

\*

| Part No.         | Trade Size<br>PG, NPT, Metric | Cord Diameter<br>Range, mm | Illustration No. |         |   |
|------------------|-------------------------------|----------------------------|------------------|---------|---|
| *50.0xxPAzzzz    |                               |                            | 1                |         |   |
|                  | 16                            | 11-14                      |                  |         |   |
|                  | 29                            | 19-25                      |                  |         |   |
|                  | 36                            | 22-32                      |                  |         |   |
|                  | 42                            | 32-38                      |                  |         |   |
| 50.0xxPA/Rzzzz   | 48                            | 34-44                      | 2                |         |   |
|                  | 29                            | 13.5-20                    |                  |         |   |
|                  | 36                            | 20-26                      |                  |         |   |
|                  | 42                            | 25-31                      |                  |         |   |
| *                | 48                            | 29-35                      | 3                |         |   |
|                  | 50016M20PAzzzz                | 20                         |                  | 11-14   |   |
|                  | *                             |                            |                  |         |   |
|                  | 50029M32PAzzzz                | 32                         |                  | 19-25   |   |
|                  | 50036M40PAzzzz                | 40                         |                  | 22-32   |   |
|                  | 50042M50PAzzzz                | 50                         |                  | 32-38   |   |
|                  | 50048M63PAzzzz                | 63                         |                  | 34-44   |   |
|                  | 50029M32PA/Rzzzz              | 32                         |                  | 13.5-20 | 4 |
|                  | 50036M40PA/Rzzzz              | 40                         |                  | 20-26   |   |
|                  | 50042M50PA/Rzzzz              | 50                         |                  | 25-31   |   |
| 50048M63PA/Rzzzz | 63                            | 29-35                      |                  |         |   |

| Part No.                                  | Trade Size<br>PG, NPT, Metric | Cord Diameter<br>Range, mm | Illustration No. |
|---|-------------------------------|----------------------------|------------------|
| Series G1                                 |                               |                            | 23               |
| 50.1xxPAzzzz                              | 1-1/4                         | 22-32                      |                  |
| <b>Series H1</b><br><b>50.1xxPA/Rzzzz</b> | <b>1</b>                      | <b>13.5-20</b>             | <b>29</b>        |

## GENERAL:

TABLE 1

| Part No.                | NPT Equivalent | Metric<br>Equivalent (+) | PG Equivalent<br>(+) |
|-------------------------|----------------|--------------------------|----------------------|
| *                       |                |                          |                      |
| 50.016PAzzzz            | -              |                          | 16                   |
| *                       |                |                          |                      |
| 50.029PAzzzz            | -              |                          | 29                   |
| 50.036PAzzzz            | -              |                          | 36                   |
| 50.042PAzzzz            | -              |                          | 42                   |
| 50.048PAzzzz            | -              |                          | 48                   |
|                         |                |                          |                      |
| 50.029PA/Rzzzz          | -              |                          | 29                   |
| 50.036PA/Rzzzz          | -              |                          | 36                   |
| 50.042PA/Rzzzz          | -              |                          | 42                   |
| 50.048PA/Rzzzz          | -              |                          | 48                   |
|                         |                |                          |                      |
| *                       |                |                          |                      |
| 50016M20PAzzzz          | -              | M20                      |                      |
| *                       |                |                          |                      |
| 50029M32PAzzzz          | -              | M32                      |                      |
| 50036M40PAzzzz          | -              | M40                      |                      |
| 50042M50PAzzzz          | -              | M50                      |                      |
| 50048M63PAzzzz          | -              | M63                      |                      |
|                         |                |                          |                      |
| <u>50029M32PA/Rzzzz</u> | -              | M32                      |                      |
| <u>50036M40PA/Rzzzz</u> | -              | M40                      |                      |
| <u>50042M50PA/Rzzzz</u> | -              | M50                      |                      |
| <u>50048M63PA/Rzzzz</u> | -              | M63                      |                      |
|                         |                |                          |                      |
| *                       |                |                          |                      |

| <u>Part No.</u> | <u>NPT</u><br><u>Equivalent</u> | <u>Metric</u><br><u>Equivalent (+)</u> | <u>PG Equivalent</u><br><u>(+)</u> |
|-----------------|---------------------------------|--|------------------------------------|
| *               |                                 |  |                                    |
| 50.114PAzzzz    | 1-1/4                           |  |                                    |
|                 |                                 |  |                                    |
| *               |                                 |  |                                    |
| 50.110PA/Rzzzz  | 1                               |  |                                    |
| *               |                                 |  |                                    |

- Indicates no NPT equivalent for the correlating part number.
- + - Indicates M12 = 12 mm, M16 = 16 mm, M20 = 20 mm, M25 = 25 mm,  
M32 = 32 mm, M40 = 40 mm, M50 = 50 mm, M63 = 63 mm.

## NOMENCLATURE:

## PLASTIC FITTINGS WITH PG THREAD

\*50.0xxPAzzzz      xx after 50.0 means Pg sizes 16, 29, 36, 42, 48

50.0xxPAzzzz      zzzz after PA may be followed by Suffixes

| Suffix                      | Explanation  |
|-----------------------------|--|
| "7035", "7001", "SW"        | And other color-index to RAL polyamide is "all colors". UL Listed          |
| "BS"                        | For spiral top   |
| (corrective Suffixes)       |  |
| "FL"                        | V-0 polyamide is UL Listed   |
| "L", "08", "10", "12", "15" | For other thread length  |
| "R"                         | For reducing sealing ring  |
| "GM", "G"                   | For mounted locknut on the thread  |
| "OM"                        | For mounted O-ring on the thread   |
| "SM"                        | For mounted dust cap as dust protection by transport or storage            |
| "VPA", "V"                  | For mounted blind plug as dust protection by transport of storage          |
| "STO"                       | For mounted insert without bore as dust protection by transport or storage |

## PLASTIC FITTINGS WITH METRIC THREAD

\*50.0xxMxxPAzzzz      xx after 50.0xxM means metric sizes 20, 32, 40, 50, 63

50.0xxMxxPAzzzz      zzzz after PA may be followed by Suffixes

| Suffix                      | Explanation  |
|-----------------------------|--|
| "7035", "7001", "SW"        | And other color-index to RAL polyamide is "all colors". UL Listed          |
| "BS"                        | For spiral top   |
| (corrective Suffixes)       |  |
| "FL"                        | V-0 polyamide is UL Listed   |
| "L", "08", "10", "12", "15" | For other thread length  |
| "R"                         | For reducing sealing ring  |
| "GM", "G"                   | For mounted locknut on the thread  |
| "OM"                        | For mounted O-ring on the thread   |
| "SM"                        | For mounted dust cap as dust protection by transport or storage            |
| "VPA", "V"                  | For mounted blind plug as dust protection by transport of storage          |
| "STO"                       | For mounted insert without bore as dust protection by transport or storage |

\*

## ALL PLASTIC FITTINGS WITH NPT THREAD

\*50.1xxPAzzzz      xx after 50.1 means NPT sizes 1, 1-1/4

50.1xxPAzzzz      zzzz after PA may be followed by Suffixes

| Suffix                         | Explanation  |
|--------------------------------|--|
| "7035", "7001", "SW"           | And other color-index to RAL polyamide is "all colors". UL Listed          |
| "BS"                           | For spiral top   |
| "FL"                           | V-0 polyamide is UL Listed   |
| "L", "08", "10", "12",<br>"15" | For other thread length  |
| "R"                            | For reducing sealing ring  |
| "GM", "G"                      | For mounted locknut on the thread  |
| "OM"                           | For mounted O-ring on the thread   |
| "SM"                           | For mounted dust cap as dust protection by transport or storage            |
| "VPA", "V"                     | For mounted blind plug as dust protection by transport of storage          |
| "STO"                          | For mounted insert without bore as dust protection by transport or storage |
|                                |  |



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

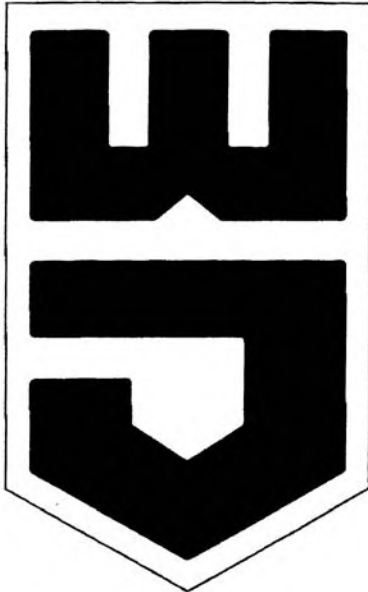
\* Products designated USL have been investigated using requirements contained in UL 514B.

\* Products designated CNL have been investigated using requirements contained in CAN/CSA 22.2 No. 18-98.

\*

## MARKING:

\*Listee's trademark on device. Part No. and metric equivalent, M20, M32, M40, M50 or M63, or Part No. and PG equivalent PG 16, PG 29, PG 36, PG 42 or PG 48 and Part No. and NPT equivalent NPT 1, NPT 1-1/4 on device or carton. Also, the acceptable outside diameter range of cord for a flexible cord fitting shall be marked on the fitting or smallest unit-shipping carton.



# Certificate of Compliance

Certificate Number 20110927-E140310  
Report Reference E140310-19930511  
Issue Date 2011-SEPTEMBER-27

Page 1 of 1



*Issued to:* JACOB GMBH  
GOTTLIEB-DAIMLER-STRASSE 11  
71394 KERNEN GERMANY

*This is to certify that  
representative samples of*

## OUTLET BUSHINGS AND FITTINGS


Liquid-Tight Fittings for Flexible Cord Cat. Nos. 50.016PAzzzz, 50.029PAzzzz,  
50.036PAzzzz, 50.042PAzzzz, 50.048PAzzzz, 50.029PA/Rzzzz,  
50.036PA/Rzzzz, 50.042PA/Rzzzz, 50.048PA/Rzzzz, 50016M20PAzzzz,  
50.029M32PAzzzz, 50.036M40PAzzzz, 50.042M50PAzzzz, 50.048M63PAzzzz,  
50029M32PA/Rzzzz, 50036M40PA/Rzzzz, 50042M50PA/Rzzzz,  
50048M63PA/Rzzzz. 50.110PA/Rzzzz, 50.114PAzzzz

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

*Standard(s) for Safety:* Conduit, Tubing, and Cable Fittings – UL514B  
Conduit, Tubing, and Cable Fittings - CAN/CSA C22.2 No. 18.3-04

*Additional Information:* See UL On-line Certification Directory at [WWW.UL.COM](http://WWW.UL.COM) for additional information.

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**William R. Carney**  
**Director, North American Certification Programs**

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File E140310  
Project 92ME50060

Issued: May 10, 1993  
Revised: April 10, 2009

REPORT

on

COMPONENT - LIQUID TIGHT FLEXIBLE CORD FITTINGS

**\*Jacob GmbH**  
**\*Kernen, Germany**

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I N D E X

| <u>Model</u>  | <u>Section</u> | <u>Report Date</u> |
|---|----------------|--------------------|
| USR, CNR Component Liquid-Flexible Cord Fittings, Cat. Nos. 50.007PA, 50.009PA, 50.011PA, 50.013PA, 50.021PA, 50.134PA, 50.138PA may be followed by Suffix "/SW".   | 1              | 1993-05-10         |
| USR, CNR - Component Liquid-Tight Fittings for Flexible Cord Part Nos. 50.0xxPAzzzz, 50.0xxPA/Rzzzz, 50007M12PAzzzz, 50011M16PAzzzz, 50013M20PAzzzz, 50021M25PAzzzz, 50.6xxM(1)zzzz, 50.6xxY(1)zzzz, 50.6xxM(1)-Lzzzz, 50.6xxY(1)-Lzzzz, 50.6xxM(1)/EMVzzzz, 50.6xxY(1)/EMVzzzz, 50.6xxM(1)/EMV/Lzzzz, 50.6xxY(1)/EMV/Lzzzz, 50.6xxM/Rzzzz, 50.6xxY/Rzzzz, 50.6xxM/R/Lzzzz, 50.6xxY/R/Lzzzz, 50.6xxM/EMV/Rzzzz, 50.6xxY/EMV/Rzzzz, 50.6xxM/EMV/R/Lzzzz, 50.1xxzzzz, 50.1xxYzzzz, 50.1xxRzzzz, 50.1xxYRzzzz, 50.6xxPAzzzz, 50.6xxPAzzzzL, 50.6xxPA/FLzzzz, 50.6xxPA/FLLzzzz, 50.6xxPA/Rzzzz, 50.6xxPA/RLzzzz, 50.6xxPAFLRzzzz, 50.6xxPAFLRLzzzz, 50.1xxPAzzzz, 50.1xxxxPAzzzz, 50.1xxPA/BSzzzz, 50.1xxPA/Rzzzz, 50.1xxPA/BSRzzzz, 50.11213PA/Rzzzz, 50.11213PA/BSRzzzz, 50.013PA/Rzzzz, 50013M20PARzzzz. 50.6xxES(1)zzzz, 50.6xxES(1)EMVzzzz, 50.6xxES/Rzzzz, 50.6xxES/EMVRzzzz, 50.6xx/xxM(1)zzzz, 50.6xx/xxY(1)zzzz, 50.6xx/xxMRzzzz, 50.6xx/xxYRzzzz, 50.6xxM(1)EMVDzzzz, 50.6xxY(1)EMVDzzzz, 50.6xxM/EMVDRzzzz, 50.6xxY/EMVDRzzzz, 50.6xxES(1)EMVDzzzz, 50.6xxES/EMVDRzzzz, 50.1xx(1)EMVzzzz, 50.1xxY(1)EMVzzzz, 50.1xx/EMVRzzzz, 50.1xxY/EMVRzzzz, 50.1xxES(1)EMVzzzz, 50.1xxES/EMVRzzzz, 50.6xxY1/EMV/Lzzzz, 50.6xxY/EMV/R/Lzzzz | 2              | 2011-09-27         |
| USR, CNR - Component Series 10.XX15 M/G where XX is 12, 16 or 25. <b>Series 10.XX15 Y/G where XX is 12, 16 or 25.</b> Series 10.XX15 PAVXXXX, where XX is 12, 16 or 25.   | 3              | 2011-09-28         |
| USR, CNR Component - Cord Connector Assemblies,<br><br>Cat. Nos.                      Description Nos.<br>F305-9240-00 KADP 24/11<br>F305-9240-01 KADP 24/12,<br>F305-9240-02 KADP 24/13<br>F305-9240-03 KADP 24/14,<br>F305-9240-04 KADP 24/17,<br>F305-9240-05 KADP 24/17-1,<br>F305-9240-06 KADP 24/22,<br>F305-9240-07 KADP 24/23,<br>F305-9240-08 KADP 24/29.  | 4              | 2015-02-06         |

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.**

5

2017-01-12

## DESCRIPTION

## PRODUCT COVERED:

USR, CNR - Component Liquid-Tight Flexible Cord Fittings; Cat. Nos. 50.007PA, 50.009PA, 50.011PA, 50.013PA, 50.021PA, 50.134PA, 50.138PA, \*50.007M12PA, 50.011M16PA, 50.013M20PA, 50.021M25PA, may be followed by Suffix "/SW", "7035" or "BS".

## ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

USR denotes evaluation of these devices to UL Standard 514B.

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

## Conditions of Acceptability -

- (1) These devices are for use in Listed equipment.
- (2) Only the combination of each fitting and the maximum cord size for that fitting (see table below) were subjected to a Strain Relief Test.
- (3) All fittings were subjected to an exposure to UV Light and Water Conditioning Test.

CNR denotes evaluation of these devices to Canadian Standard C22.2 No. 18-92.

## CONSTRUCTION DETAILS:

Markings - Listee's name or tradename on device. Cat. No. on device, carton or smallest unit carton.

Cat. No. Designation - Suffix "/SW" denotes fittings which are black in color. Suffix "BS" denotes spiral top. "7035" denotes light gray.

Cord Diameters - The acceptable cord diameter range must be provided on the carton or smallest unit containers.

| <u>Cat. Nos.</u> | <u>Thread Size</u> | <u>Cord Diameter, In (mm)</u> |
|------------------|--------------------|-------------------------------|
| 50.007PA         | <b>PG</b> 7        | 0.118 (3) - 0.256 (6.5)       |
| 50.009PA         | <b>PG</b> 9        | 0.157 (4) - 0.315 (8)         |
| 50.011PA         | <b>PG</b> 11       | 0.197 (5) - 0.394 (10)        |
| 50.013PA         | <b>PG</b> 13.5     | 0.354 (9) - 0.472 (12)        |
| 50.021PA         | <b>PG</b> 21       | 0.551 (14) - 0.709 (18)       |
| 50.134PA         | Npt 3/4            | 0.551 (14) - 0.709 (18)       |
| 50.138PA         | Npt 3/8            | 0.197 (5) - 0.394 (10)        |
| 50.007M12PA      | Metric M12         | 0.118 (3) - 0.256 (6.5)       |
| 50.011M16PA      | Metric M16         | 0.197 (5) - 0.394 (10)        |
| 50.013M20PA      | Metric M20         | 0.354 (9) - 0.472 (12)        |
| 50.021M25PA      | Metric M25         | 0.551 (14) - 0.709 (18)       |



## DESCRIPTION

## PRODUCT COVERED:

USR, CNR Component Liquid-Tight Fittings for Flexible Cord

Part No. 50.007M12PAzzzz, 50.011M16PAzzzz, 50.013M20PAzzzz,  
50.021M25PAzzzz, 50.11213PAzzzz, 50.11213PABSzzzz,  
50.114PA/Rzzzz, 50.11213PA/Rzzzz, 50.11213PA/BSRzzzz,  
50.013PA/Rzzzz, 50.013M20PARzzzz, 50.110PAzzzz.

Part Nos. 50.0xxPAzzzz where xx can be 07, 09, 11, 13 or 21;

Part Nos. 50.6xx/xxMzzzz and 50.6xx/xxYzzzz where xx can be  
12/16, 16/20, 20/25, 25/32, 32/40, 40/50 or 50/63;

Part Nos. 50.6xxMzzzz, 50.6xxYzzzz, 50.6xxM-Lzzzz, 50.6xxY-Lzzzz,  
50.6xxM/EMVzzzz, 50.6xxY/EMVzzzz, 50.6xxM/EMV/Lzzzz,  
50.6xxY/EMV/Lzzzz, 50.6xxESzzzz where xx can be 12, 16, 20, 25,  
32, 40, 50 or 63;

Part. Nos. 50.6xxES/EMVzzzz, 50.6xxM/EMVDzzzz, 50.6xxY/EMVDzzzz  
and 50.6xxES/EMVDzzzz where xx can be 16, 20, 25, 32, 40, 50 or  
63;

Part Nos. 50.1xx/EMVzzzz, 50.1xxY/EMVzzzz, 50.1xxES/EMVzzzz where  
xx can be 38, 12, 34, 10, 114, 112 or 200

Part No. 50.6xxM1zzzz, 50.6xxY1zzzz, 50.6xxM1-Lzzzz, 50.6xxY1-  
Lzzzz, 50.6xxM1/EMVzzzz, 50.6xxY1/EMVzzzz, 50.6xxM1/EMV/Lzzzz,  
**50.6xxY1/EMV/Lzzzz**, 50.6xxES1zzzz, 50.6xxES1EMVzzzz,  
50.6xxM1/EMVDzzzz, 50.6xxY1/EMVDzzzz, 50.6xxES1/EMVDzzzz where xx  
can be 63.

Part. Nos. 50.1xx/1EMVzzzz, 50.1xxY1/EMVzzzz, 50.1xxES1/EMVzzzz  
where xx can be 200.

Part. Nos. 50.6xx/xxM1zzzz, 50.6xx/xxY1zzzz where xx/xx can be  
50/63.

Part No. 50.6xxM/Rzzzz, 50.6xxY/Rzzzz, 50.6xxM/R/Lzzzz,  
50.6xxY/R/Lzzzz, 50.6xxM/EMV/Rzzzz, 50.6xxY/EMV/Rzzzz,  
50.6xxM/EMV/R/Lzzzz, 50.6xxY/EMV/R/Lzzzz, 50.6xxES/Rzzzz,  
50.6xxES/EMVRzzzz, 50.6xxM/EMVDRzzzz, 50.6xxY/EMVDRzzzz,  
50.6xxES/EMVDRzzzz where xx can be 12, 16, 20, 25, 32, 40, 50 or  
63;

Part. **Nos.** 50.1xxES/EMVRzzzz, 50.1xx/EMVRzzzz and  
50.1xxY/EMVRzzzz where xx can be 38, 12, 34, 10, 114, 112 or 200;

Part Nos. 50.6xx/xxMRzzzz and 50.6xx/xxYRzzzz where xx/xx can be  
12/16;

Part Nos. 50.1xxzzzz, 50.1xxYzzzz, 50.1xxRzzzz and 50.1xxYRzzzz  
where xx can be 38, 12, 34 or 10.

Part No. 50.6xxPAzzzz, 50.6xxPAzzzzL, 50.6xxPA/FLzzzz,  
50.6xxPA/FLLzzzz, 50.6xxPA/Rzzzz, 50.6xxPA/RLzzzz,  
50.6xxPAFLRzzzz, 50.6xxPAFLRLzzzz where xx can be 12, 16, 20, 25,  
32, 40 or 50.

Part No. 50.1xxPAzzzz and 50.1xxPA/BSzzzz, 50.1xxPA/Rzzzz,  
50.1xxPA/BSRzzzz where xx can be 38, 12 or 34.

## Series similarities:

50.6xxES(1)zzzz is identical to series 50.6xxM(1)zzzz except gland nut and body material is stainless steel instead of brass.

**50.6xxY(1)zzzz is identical to series 50.6xxM(1)zzzz except gland nut and body material is brass CuZn21Si3P lead-free instead of brass CuZn39Pb3.**

50.6xxM(1)Lzzzz is identical to 50.6xxM(1)zzzz except for longer length threads.

50.6xxES(1)/EMVzzzz is identical to series 50.6xxM(1)/EMVzzzz except gland nut and body material is stainless steel instead of brass.

**50.6xxY(1)/EMVzzzz is identical to series 50.6xxM(1)/EMVzzzz except gland nut and body material is brass CuZn21Si3P lead-free instead of brass CuZn39Pb3.**

50.6xx/xxM(1)zzzz is identical to series 50.6xxM(1)zzzz except the body is paired with a gland nut of the next trade size. (example - body threaded for M12 but gland nut for cable sizes of M16 fitting).

50.6xxM(1)/EMVDzzzz is identical to series 50.6xxM(1)zzzz except for the addition of contact spring for shielded cables.

50.6xxES(1)/EMVDzzzz is identical to series 50.6xxES(1)zzzz except for the addition of contact spring for shielded cable.

50.1xx/(1)EMVzzzz is identical to series 50.6xxM(1)/EMVzzzz except the body has NPT threads.

50.1xxES(1)/EMVzzzz is identical to 50.6xxES(1)/EMVzzzz except the body has NPT threads.

50.6xxES/Rzzzz is identical to 50.6xxM/Rzzzz except the body is made of stainless steel instead of brass.

**50.6xxY/Rzzzz is identical to 50.6xxM/Rzzzz except the body is brass CuZn21Si3P lead-free instead of brass CuZn39Pb3.**

50.6xxM/EMVDRzzzz is identical to 50.6xxM/Rzzzz except for the addition of contact spring for shielded cables.

50.6xxES/EMVDRzzzz is identical to 50.6xxM/EMVDRzzzz except the body is made of stainless steel instead of brass.

**50.6xxY/EMVDRzzzz is identical to 50.6xxM/EMVDRzzzz except the body is brass CuZn21Si3P lead-free instead of brass CuZn39Pb3.**

**In series 50.6xxM... M means brass CuZn39Pb3.**

**In series 50.6xxY...and 50.1xxY Y means brass CuZn21Si3P lead-free.**

**In series 50.6xxES... ES means stainless steel.**

| Part No.  | "xx"        | Trade Size<br>PG, NPT,<br>Metric | Cord<br>Diameter<br>Range, mm | Illustration<br>No. |
|---|-------------|----------------------------------|-------------------------------|---------------------|
| 50.0xxPAzzzz  | 07          | 7                                | 3-6.5                         | 1                   |
|   | 09          | 9                                | 4-8                           |                     |
|   | 11          | 11                               | 5-10                          |                     |
|   | 13          | 13                               | 9-12                          |                     |
|   | 21          | 21                               | 14-18                         |                     |
| 50.007M12PAzzzz   | -           | 12                               | 3-6.5                         | 2                   |
| 50.011M16PAzzzz   | -           | 16                               | 5-10                          |                     |
| 50.013M20PAzzzz   | -           | 20                               | 9-12                          |                     |
| 50.021M25PAzzzz   | -           | 25                               | 13-18                         |                     |
| Series A1, A2, A3 A4<br><br>50.6xx/xxMzzzz,<br>50.6xx/xxYzzzz   | 12/16       | 12                               | 9                             | 3A                  |
|   | 16/20       | 16                               | 10-13                         |                     |
|   | 20/25       | 20                               | 12-16                         |                     |
|   | 25/32       | 25                               | 15-21                         |                     |
|   | 32/40       | 32                               | 19-27                         |                     |
|   | 40/50       | 40                               | 26-35                         |                     |
| Series A1, A2, A3 A4<br><br>50.6xxMzzzz<br>50.6xxYzzzz<br>50.6xxM-Lzzzz<br>50.6xxY-Lzzzz<br>50.6xxM/EMVzzzz<br>50.6xxY/EMVzzzz<br>50.6xxM/EMV/Lzzzz<br>50.6xxY/EMV/Lzzzz<br>50.6xxESzzzz<br>50.1xx/EMVzzzz**<br>50.1xxY/EMVzzzz**<br>50.1xxES/EMVzzzz** | 12          | 12                               | 5-6                           | 3-6                 |
|   | 16 or **38  | 16 /** 3/8"                      | 9                             |                     |
|   | 20 or **12  | 20 /** 1/2"                      | 10-13                         |                     |
|   | 25 or **34  | 25/** 3/4"                       | 12-16                         |                     |
|   | 32 or **10  | 32 /**1"                         | 15-21                         |                     |
|   | 40 or **114 | 40 /**1 1/4"                     | 19-27                         |                     |
|   | 50 or **112 | 50/**1 1/2"                      | 26-35                         |                     |
|   | 63 or **200 | 63 /**2"                         | 39-42                         |                     |
|   |             |                                  |                               |                     |
|   |             |                                  |                               |                     |
|   |             |                                  |                               |                     |
|   |             |                                  |                               |                     |
|   |             |                                  |                               |                     |
| Series A1, A2, A3 A4<br><br>50.6xxES/EMVzzzz<br>50.6xxM/EMVDzzzz<br>50.6xxY/EMVDzzzz<br>50.6xxES/EMVDzzzz   | 16 or **38  | 16, **3/8"                       | 9                             | 5, 6A               |
|   | 20 or **12  | 20, ** /2"                       | 10-13                         |                     |
|   | 25 or **34  | 25, **3/4"                       | 12-16                         |                     |
|   | 32 or **10  | 32, **1"                         | 15-21                         |                     |
|   | 40 or **114 | 40, **1-1/4"                     | 19-27                         |                     |
|   | 50 or **112 | 50, **1-1/2"                     | 26-35                         |                     |
|   | 63 or **200 | 63, **2"                         | 39-42                         |                     |
|   |             |                                  |                               |                     |

| Part No.   | "xx"  | Trade Size<br>PG, NPT,<br>Metric   | Cord<br>Diameter<br>Range, mm                               | Illustration<br>No. |
|--|---|--|---|---------------------|
| <b>Series A1, A2, A3 A4</b><br><br>50.6xxM1zzzz<br>50.6xxY1zzzz<br>50.6xxM1-Lzzzz<br>50.6xxY1-Lzzzz<br>50.6xxM1/EMVzzzz<br>50.6xxY1/EMVzzzz<br>50.6xxM1/EMV/Lzzzz<br>50.6xxY1/EMV/Lzzzz<br>50.6xxES1zzzz<br>50.6xxES1/EMVzzzz<br>50.1xx/1EMVzzzz**<br>50.1xxY/1EMVzzzz**<br>50.1xxES1/EMVzzzz**  | <b>63 or **200</b>  | <b>63 ,**2"</b>  | <b>39.2-48</b>  | <b>3-6</b>          |
| <b>Series A1, A2, A3 A4</b><br><br>50.6xx/xxM1zzzz<br>50.6xx/xxY1zzzz  | <b>50/63</b>  | <b>50</b>  | <b>26-35</b>  |                     |
| Series A1, A2, A3 A4<br><br>50.6xxM1/EMVDzzzz<br>50.6xxY1/EMVDzzzz<br>50.6xxES1/EMVDzzzz   | 63  | 63   | 39.2-48   | 6A                  |
| Series B1, B2, B3, B4<br><br>50.6xxM/Rzzzz<br>50.6xxY/Rzzzz<br>50.6xxM/R/Lzzzz<br>50.6xxY/R/Lzzzz<br>50.6xxM/EMV/Rzzzz<br>50.6xxY/EMV/Rzzzz<br>50.6xxM/EMV/R/Lzzzz<br>50.6xxY/EMV/R/Lzzzz<br>50.6xxES/Rzzzz<br>50.6xxES/EMVRzzzz<br>50.6xxM/EMVDRzzzz<br>50.6xxY/EMVDRzzzz<br>50.6xxES/EMVDRzzzz<br>50.1xx/EMVRzzzz**<br>50.1xxY/EMVRzzzz**<br>50.1xxES/EMVRzzzz** | 12<br>16 or ** 38<br>20 or **12<br>25 or ** 34<br>32 or **10<br>40 or **114<br>50 or **112<br>63 or **200 | 12<br>16, 3/8"<br>20, 1/2"<br>25, 3/4"<br>32, 1"<br>40, 1-1/4"<br>50, 1-1/2"<br>63, 2" | 3.2-5<br>9<br>13<br>9.3-16<br>13-21<br>17-27<br>22-35<br>48 | 7-10, 10A           |
| Series B1, B2, B3, B4<br><br>50.6xx/xxMRzzzz<br>50.6xx/xxYRzzzz  | 12/16   | 12   | 9   |                     |

| Part No.  | "xx"        | Trade Size<br>PG, NPT,<br>Metric | Cord Diameter<br>Range, mm | Illustration<br>No. |
|---|-------------|----------------------------------|----------------------------|---------------------|
| Series C1<br>50.1xxzzzz<br><b>50.1xxYzzzz</b>   | 38          | 3/8                              | 7-8                        | 11                  |
|   | 12          | 1/2                              | 7-12.5                     |                     |
|   | 34          | 3/4                              | 13-18                      |                     |
|   | 10          | 1                                | 18-25                      |                     |
| Series D1<br>50.1xxRzzzz<br><b>50.1xxYRzzzz</b>   | 38          | 3/8                              | 6                          | 12                  |
|   | 12          | 1/2                              | 6-9                        |                     |
|   | 34          | 3/4                              | 9-16                       |                     |
|   | 10          | 1                                | 12-20                      |                     |
| Series E1, E2<br>50.6xxPAzzzz<br>50.6xxPAzzzzL  | 12          | 12                               | 6                          | 13-14               |
|   | 16          | 16                               | 7-10                       |                     |
|   | 20          | 20                               | 9-13                       |                     |
|   | 25          | 25                               | 13-17                      |                     |
|   | 32          | 32                               | 21                         |                     |
|   | 40          | 40                               | 21-28                      |                     |
| Series E3, E4<br>50.6xxPA/FLzzzz<br>50.6xxPA/FLLzzzz                                    | 12          | 12                               | 6                          | 15-16               |
|   | 16          | 16                               | 5.6-10                     |                     |
|   | 20          | 20                               | 9-13                       |                     |
|   | 25          | 25                               | 13-17                      |                     |
|   | 32          | 32                               | 15-21                      |                     |
|   | 40          | 40                               | 28                         |                     |
|   | 50          | 50                               | 27-35                      |                     |
| Series F1, F2<br>50.6xxPA/Rzzzz<br>50.6xxPA/RLzzzz                                      | 12          | 12                               | 3.1-5                      | 17-18               |
|   | 16          | 16                               | 6-10                       |                     |
|   | 20          | 20                               | 9-13                       |                     |
|   | 25          | 25                               | 11-17                      |                     |
|   | 32          | 32                               | 14.1-21                    |                     |
|   | 40          | 40                               | 19-28                      |                     |
| Series F3, F4<br>50.6xxPAFLRzzzz<br>50.6xxPAFLRLzzzz                                    | 12          | 12                               | 3.1-5                      | 19-20               |
|   | 16          | 16                               | 6-10                       |                     |
|   | 20          | 20                               | 9-13                       |                     |
|   | 25          | 25                               | 11-17                      |                     |
|   | 32          | 32                               | 14-21                      |                     |
|   | 40          | 40                               | 17.7-28                    |                     |
| *Series G1, G2<br>50.1xxPAzzzz<br>50.1xxPA/BSzzzz<br>50.1xxxxPAzzzz<br>50.1xxxxPABSzzzz | 38          | 3/8                              | 5-10                       | 21-22               |
|   | <b>1213</b> | 1/2                              | 9-12                       |                     |
|   | 12          | 1/2                              | 11-14                      |                     |
|   | <b>1221</b> | 1/2                              | 15-18                      |                     |
|   | 34          | 3/4                              | 14-18                      |                     |
| Series G1<br>50.1xxPAzzzz   | 10          | 1                                | 19-25                      | 21                  |
| Series H1, H2<br>50.1xxPA/Rzzzz<br>50.1xxPA/BSRzzzz                                     | 38          | 3/8                              | 3.5-7                      | 23-24               |
|   | 12          | 1/2                              | 7-12                       |                     |
|   | 34          | 3/4                              | 9.6-16                     |                     |

| Part No.  | Trade Size<br>PG, NPT, Metric | Cord Diameter<br>Range, mm | Illustration<br>No. |
|---|-------------------------------|----------------------------|---------------------|
| *Series H1<br><b>50.114PA/Rzzzz</b>                 | 1-1/4                         | 20-26                      | 23                  |
| Series H1<br>50.11213PA/Rzzzz<br>50.11213PA/BSRzzzz | 1/2                           | 6-9                        | 23-24               |
| 50.013PA/Rzzzz                                      | 13.5                          | 6-9                        | 25                  |
| <b>50.013M20PARzzzz</b>                             | M20                           | 6-9                        | 26                  |

## GENERAL:

TABLE 1

| Part No.       | NPT Equivalent | Metric Equivalent (+) | PG Equivalent (+) |
|----------------|----------------|-----------------------|-------------------|
| 50.007PAzzzz   | -              |                       | 7                 |
| 50.009PAzzzz   | -              |                       | 9                 |
| 50.011PAzzzz   | -              |                       | 11                |
| 50.013PAzzzz   | -              |                       | 13.5              |
| 50.021PAzzzz   | -              |                       | 21                |
|                |                |                       |                   |
| 50007M12PAzzzz | -              | M12                   |                   |
| 50011M16PAzzzz | -              | M16                   |                   |
| 50013M20PAzzzz | -              | M20                   |                   |
| 50021M25PAzzzz | -              | M25                   |                   |
|                |                |                       |                   |
| 50.612Mzzzz    | -              | M12                   |                   |
| 50.616Mzzzz    | -              | M16                   |                   |
| 50.620Mzzzz    | -              | M20                   |                   |
| 50.625Mzzzz    | -              | M25                   |                   |
| 50.632Mzzzz    | -              | M32                   |                   |
| 50.640Mzzzz    | -              | M40                   |                   |
| 50.650Mzzzz    | -              | M50                   |                   |
| 50.663Mzzzz    | -              | M63                   |                   |
| 50.663M1zzzz   | -              | M63                   |                   |
|                |                |                       |                   |
| 50.612M/Rzzzz  | -              | M12                   |                   |
| 50.616M/Rzzzz  | -              | M16                   |                   |
| 50.620M/Rzzzz  | -              | M20                   |                   |
| 50.625M/Rzzzz  | -              | M25                   |                   |
| 50.632M/Rzzzz  | -              | M32                   |                   |
| 50.640M/Rzzzz  | -              | M40                   |                   |
| 50.650M/Rzzzz  | -              | M50                   |                   |
| 50.663M/Rzzzz  | -              | M63                   |                   |
|                |                |                       |                   |
| 50.138zzzz     | 3/8            |                       |                   |
| 50.112zzzz     | 1/2            |                       |                   |
| 50.134zzzz     | 3/4            |                       |                   |
| 50.110zzzz     | 1              |                       |                   |
|                |                |                       |                   |
| 50.138Rzzzz    | 3/8            |                       |                   |
| 50.112Rzzzz    | 1/2            |                       |                   |
| 50.134Rzzzz    | 3/4            |                       |                   |
| 50.110Rzzzz    | 1              |                       |                   |
|                |                |                       |                   |
| 50.612PAzzzz   | -              | M12                   |                   |
| 50.616PAzzzz   | -              | M16                   |                   |
| 50.620PAzzzz   | -              | M20                   |                   |
| 50.625PAzzzz   | -              | M25                   |                   |
| 50.632PAzzzz   | -              | M32                   |                   |
| 50.640PAzzzz   | -              | M40                   |                   |
| 50.650PAzzzz   | -              | M50                   |                   |
| 50.663PAzzzz   | -              | M63                   |                   |
|                |                |                       |                   |



| Part No.           | NPT<br>Equivalent | Metric Equivalent<br>(+) | PG Equivalent<br>(+) |
|--------------------|-------------------|--------------------------|----------------------|
| 50.612PA/Rzzzz     | -                 | M12                      |                      |
| 50.616PA/Rzzzz     | -                 | M16                      |                      |
| 50.620PA/Rzzzz     | -                 | M20                      |                      |
| 50.625PA/Rzzzz     | -                 | M25                      |                      |
| 50.632PA/Rzzzz     | -                 | M32                      |                      |
| 50.640PA/Rzzzz     | -                 | M40                      |                      |
| 50.650PA/Rzzzz     | -                 | M50                      |                      |
| 50.663PA/Rzzzz     | -                 | M63                      |                      |
|                    |                   |                          |                      |
| 50.138PAzzzz       | 3/8               |                          |                      |
| 50.112PAzzzz       | 1/2               |                          |                      |
| 50.134PAzzzz       | 3/4               |                          |                      |
| 50.110PAzzzz       | 1                 |                          |                      |
|                    |                   |                          |                      |
| 50.138PA/Rzzzz     | 3/8               |                          |                      |
| 50.112PA/Rzzzz     | 1/2               |                          |                      |
| 50.11213PA/Rzzzz   | 1/2               |                          |                      |
| 50.134PA/Rzzzz     | 3/4               |                          |                      |
| 50.114PA/Rzzzz     | 1-1/4             |                          |                      |
|                    |                   |                          |                      |
| 50.11213PA/BSRzzzz | 1/2               |                          |                      |

- Indicates no NPT equivalent for the correlating part number.
- + - Indicates M12 = 12 mm, M16 = 16 mm, M20 = 20 mm, M25 = 25 mm, M32 = 32 mm, M40 = 40 mm, M50 = 50 mm, M63 = 63 mm.

## NOMENCLATURE:

## PLASTIC FITTINGS WITH PG THREAD

50.0xxPAzzzz xx after 50.0 means Pg sizes 7, 9, 11, 13, 21,

50.0xxPAzzzz zzzz after PA may be followed by Suffixes

| Suffix                      | Explanation  |
|-----------------------------|--|
| "7035", "7001", "SW"        | And other color-index to RAL polyamide is "all colors". UL Listed          |
| "BS"                        | For spiral top   |
| (corrective Suffixes)       |  |
| "FL"                        | V-0 polyamide is UL Listed   |
| "L", "08", "10", "12", "15" | For other thread length  |
| "R"                         | For reducing sealing ring  |
| "GM", "G"                   | For mounted locknut on the thread  |
| "OM"                        | For mounted O-ring on the thread   |
| "SM"                        | For mounted dust cap as dust protection by transport or storage            |
| "VPA", "V"                  | For mounted blind plug as dust protection by transport of storage          |
| "STO"                       | For mounted insert without bore as dust protection by transport or storage |

## PLASTIC FITTINGS WITH METRIC THREAD

50.0xxMxxPAzzzz xx after 50.0xxM means metric sizes 12, 16, 20, 25,

50.0xxMxxPAzzzz zzzz after PA may be followed by Suffixes

| Suffix                      | Explanation  |
|-----------------------------|--|
| "7035", "7001", "SW"        | And other color-index to RAL polyamide is "all colors". UL Listed          |
| "BS"                        | For spiral top   |
| (corrective Suffixes)       |  |
| "FL"                        | V-0 polyamide is UL Listed   |
| "L", "08", "10", "12", "15" | For other thread length  |
| "R"                         | For reducing sealing ring  |
| "GM", "G"                   | For mounted locknut on the thread  |
| "OM"                        | For mounted O-ring on the thread   |
| "SM"                        | For mounted dust cap as dust protection by transport or storage            |
| "VPA", "V"                  | For mounted blind plug as dust protection by transport of storage          |
| "STO"                       | For mounted insert without bore as dust protection by transport or storage |

## PLASTIC FITTINGS WITH METRIC THREAD

50.6xxPAzzzz      xx after 50.6 means metric sizes 12, 16, 20, 25, 32, 40,  
50, 63

50.6xxPAzzzz      zzzz after PA may be followed by Suffixes

| Suffix                         | Explanation  |
|--------------------------------|--|
| "7035", "7001", "SW"           | And other color-index to RAL polyamide is "all colors". UL Listed          |
| "BS"                           | For spiral top   |
| "FL"                           | V-0 polyamide is UL Listed   |
| "L", "08", "10", "12",<br>"15" | For other thread length  |
| "R"                            | For reducing sealing ring  |
| "GM", "G"                      | For mounted locknut on the thread  |
| "OM"                           | For mounted O-ring on the thread   |
| "SM"                           | For mounted dust cap as dust protection by transport or storage            |
| "VPA", "V"                     | For mounted blind plug as dust protection by transport of storage          |
| "STO"                          | For mounted insert without bore as dust protection by transport or storage |

## ALL PLASTIC FITTINGS WITH NPT THREAD

50.1xxPAzzzz      xx after 50.1 means NPT sizes 3/8, 1/2, ¾, 1

50.1xxPAzzzz      zzzz after PA may be followed by Suffixes

| Suffix                         | Explanation  |
|--------------------------------|--|
| "7035", "7001", "SW"           | And other color-index to RAL polyamide is "all colors". UL Listed          |
| "BS"                           | For spiral top   |
| "FL"                           | V-0 polyamide is UL Listed   |
| "L", "08", "10", "12",<br>"15" | For other thread length  |
| "R"                            | For reducing sealing ring  |
| "GM", "G"                      | For mounted locknut on the thread  |
| "OM"                           | For mounted O-ring on the thread   |
| "SM"                           | For mounted dust cap as dust protection by transport or storage            |
| "VPA", "V"                     | For mounted blind plug as dust protection by transport of storage          |
| "STO"                          | For mounted insert without bore as dust protection by transport or storage |

ALL **METAL** FITTINGS WITH METRIC THREAD

50.6xxMzzzzz      xx after 50.6 means metric sizes 12, 16, 20, 25, 32, 40, 50, 63

**50.6xxYzzzzz      xx after 50.6 means metric sizes 12, 16, 20, 25, 32, 40, 50, 63**

**50.6xxESzzzzz      xx after 50.6 means metric sizes 12, 16, 20, 25, 32, 40, 50, 63**

50.6xxMzzzzz      zzzz after M may be followed by Suffixes

**50.6xxYzzzzz      zzzz after Y may be followed by Suffixes**

**50.6xxESzzzzz      zzzz after ES may be followed by Suffixes**

| Suffix     | Explanation  |
|------------|--|
| "L"        | For other thread length  |
| "R"        | For reducing sealing ring  |
| "EMV"      | For Part Series EMV/EMC  |
| "GM", "G"  | For mounted locknut on the thread  |
| "SM"       | For mounted dust cap as dust protection by transport or storage            |
| "VPA", "V" | For mounted blind plug as dust protection by transport of storage          |
| "STO"      | For mounted insert without bore as dust protection by transport or storage |
| "M1"       | Maximum Diameter 48 mm   |

ALL **METAL** FITTINGS WITH NPT THREAD

50.1xxzzzzz      xx after 50.1 means NPT sizes 3/8, 1/2, 3/4, 1

**50.1xxYzzzzz      xx after 50.1 means NPT sizes 3/8, 1/2, 3/4, 1**

50.1xxzzzzz      zzzz may be followed by Suffixes

**50.1xxYzzzzz      zzzz may be followed by Suffixes**

| Suffix     | Explanation  |
|------------|--|
| "R"        | For reducing sealing ring  |
| "EMV"      | For Part Series EMV/EMC  |
| "GM", "G"  | For mounted locknut on the thread  |
| "OM"       | For mounted O-Ring on the thread   |
| "SM"       | For mounted dust cap as dust protection by transport or storage            |
| "VPA", "V" | For mounted blind plug as dust protection by transport of storage          |
| "STO"      | For mounted insert without bore as dust protection by transport or storage |

## ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Products designated USR have been investigated using requirements contained in UL 514B.

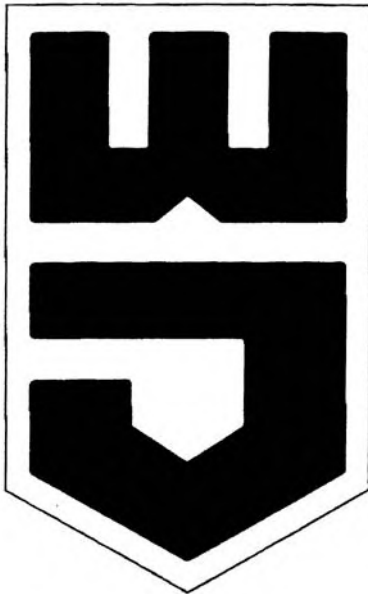
Products designated CNR have been investigated using requirements contained in CAN/CSA 22.2 No. 18-98.

## Conditions of Acceptability -

1. The following part numbers shall be installed in a suitable opening: 50.6xxPAzzzz, 50.1xxPAzzzz, 50.6xxMzzzz, **50.6xxYzzzz**, 50.1xx, **50.1xxY**, 50.0xxPA/R, 500xxMxxPARzzzz, 50.6xxESzzzz, 50.6xx/xxMzzzz, **50.6xx/xxYzzzz**, **50.6xxM/EMVDzzzz**, **50.6xxY/EMVDzzzz**.
2. These devices are for use in Listed equipment.
3. All fittings were subjected to an exposure to UV Light and Water Conditioning Test.
4. Recognized fittings have been evaluated to the manufacturer's specified pull force which is lower than the 35 lb pull requirement in UL514B.

## MARKING:

Listee's trademark on device. Part No. and metric equivalent, M12, M16, M20, M25, M32, M40, M50 or M63, or Part No. and PG equivalent PG 7, PG 9, PG 11, PG 13.5, PG 16, PG 21, PG 29, PG 36, PG 42 or PG 48 and Part No. and NPT equivalent NPT 3/8, NPT 1/2, NPT 3/4, NPT 1, NPT 1-1/4 on device or carton. Also, the acceptable outside diameter range of cord for a flexible cord fitting shall be marked on the fitting or smallest unit-shipping carton.



# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-L140310-22-72901102-3  
**Report Reference** E140310-20110927  
**Date** 27-Aug-2020

**Issued to:** Jacob GmbH  
Elektrotechnische Fabrik  
Gottlieb-Daimler-Strasse 11 Kernen  
Germany 71394

**This is to certify that representative samples of** QCRV2 - Outlet Bushings and Fittings - Component  
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

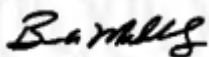
**Standard(s) for Safety:** UL 514B, 6th Ed., Issue Date: 2012-07-13, Revision Date: 2014-11-21

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



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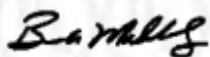
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# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-L140310-22-72901102-3  
**Report Reference** E140310-20110927  
**Date** 27-Aug-2020

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

| Model  | Category Description         |
|--|------------------------------|
| 50.007M12PAzzzz                                    | Outlet Bushings and Fittings |
| 50.007PAzzzz                                       | Outlet Bushings and Fittings |
| 50.009PAzzzz                                       | Outlet Bushings and Fittings |
| 50.011M16PAzzzz                                    | Outlet Bushings and Fittings |
| 50.011PAzzzz                                       | Outlet Bushings and Fittings |
| 50.013M20PARzzzz                                   | Outlet Bushings and Fittings |
| 50.013M20PAzzzz                                    | Outlet Bushings and Fittings |
| 50.013PA/Rzzzz                                     | Outlet Bushings and Fittings |
| 50.013PAzzzz                                       | Outlet Bushings and Fittings |
| 50.021M25PAzzzz                                    | Outlet Bushings and Fittings |
| 50.021PAzzzz                                       | Outlet Bushings and Fittings |
| 50.0xxPAzzzz, where xx can be 07, 09, 11, 13 or 21 | Outlet Bushings and Fittings |
| 50.110PAzzzz                                       | Outlet Bushings and Fittings |
| 50.110Rzzzz  | Outlet Bushings and Fittings |
| 50.110zzzz   | Outlet Bushings and Fittings |
| 50.11213PA/BSRzzzz                                 | Outlet Bushings and Fittings |
| 50.11213PA/Rzzzz                                   | Outlet Bushings and Fittings |
| 50.11213PABSzzzz                                   | Outlet Bushings and Fittings |
| 50.11213PAzzzz                                     | Outlet Bushings and Fittings |
| 50.112PA/BSRzzzz                                   | Outlet Bushings and Fittings |
| 50.112PA/BSzzzz                                    | Outlet Bushings and Fittings |
| 50.112PA/Rzzzz                                     | Outlet Bushings and Fittings |
| 50.112PAzzzz                                       | Outlet Bushings and Fittings |
| 50.112Rzzzz  | Outlet Bushings and Fittings |
| 50.112zzzz   | Outlet Bushings and Fittings |
| 50.114PA/Rzzzz                                     | Outlet Bushings and Fittings |
| 50.1200/1EMVzzzz                                   | Outlet Bushings and Fittings |
| 50.1200ES1/EMVzzzz                                 | Outlet Bushings and Fittings |
| 50.134PA/BSRzzzz                                   | Outlet Bushings and Fittings |
| 50.134PA/BSzzzz                                    | Outlet Bushings and Fittings |
| 50.134PA/Rzzzz                                     | Outlet Bushings and Fittings |
| 50.134PAzzzz                                       | Outlet Bushings and Fittings |
| 50.134Rzzzz  | Outlet Bushings and Fittings |
| 50.134zzzz   | Outlet Bushings and Fittings |
| 50.138PA/BSRzzzz                                   | Outlet Bushings and Fittings |
| 50.138PA/BSzzzz                                    | Outlet Bushings and Fittings |
| 50.138PA/Rzzzz                                     | Outlet Bushings and Fittings |



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**Report Reference** E140310-20110927  
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|   |                              |
|---|------------------------------|
| 50.138PAzzzz  | Outlet Bushings and Fittings |
| 50.138Rzzzz   | Outlet Bushings and Fittings |
| 50.138zzzz  | Outlet Bushings and Fittings |
| 50.1xx/1EMVzzzz, where xx can be 200  | Outlet Bushings and Fittings |
| 50.1xx/EMVRzzzz\$   | Outlet Bushings and Fittings |
| 50.1xx/EMVzzzz\$  | Outlet Bushings and Fittings |
| 50.1xxES/EMVRzzzz\$   | Outlet Bushings and Fittings |
| 50.1xxES/EMVzzzz\$  | Outlet Bushings and Fittings |
| 50.1xxES1/EMVzzzz, where xx can be 200  | Outlet Bushings and Fittings |
| 50.1xxRzzzz, where xx can be 38, 12, 34 or 10                                     | Outlet Bushings and Fittings |
| 50.1xxY/EMVRzzzz\$  | Outlet Bushings and Fittings |
| 50.1xxY/EMVzzzz\$   | Outlet Bushings and Fittings |
| 50.1xxY1/EMVzzzz, where xx can be 200   | Outlet Bushings and Fittings |
| 50.1xxYRzzzz, where xx can be 38, 12, 34 or 10                                    | Outlet Bushings and Fittings |
| 50.1xxYzzzz, where xx can be 38, 12, 34 or 10                                     | Outlet Bushings and Fittings |
| 50.1xxzzzz, where xx can be 38, 12, 34 or 10                                      | Outlet Bushings and Fittings |
| 50.612/16MRzzzz   | Outlet Bushings and Fittings |
| 50.612/16Mzzzz  | Outlet Bushings and Fittings |
| 50.616/20Mzzzz  | Outlet Bushings and Fittings |
| 50.620/25Mzzzz  | Outlet Bushings and Fittings |
| 50.625/32Mzzzz  | Outlet Bushings and Fittings |
| 50.632/40Mzzzz  | Outlet Bushings and Fittings |
| 50.640/50Mzzzz  | Outlet Bushings and Fittings |
| 50.650/63M1zzzz   | Outlet Bushings and Fittings |
| 50.650/63Mzzzz  | Outlet Bushings and Fittings |
| 50.663ES1/EMVDzzzz  | Outlet Bushings and Fittings |
| 50.663ES1EMVzzzz  | Outlet Bushings and Fittings |
| 50.663ES1zzzz   | Outlet Bushings and Fittings |
| 50.663M1-Lzzzz  | Outlet Bushings and Fittings |
| 50.663M1/EMV/Lzzzz  | Outlet Bushings and Fittings |
| 50.663M1/EMVDzzzz   | Outlet Bushings and Fittings |
| 50.663M1/EMVzzzz  | Outlet Bushings and Fittings |
| 50.663M1zzzz  | Outlet Bushings and Fittings |
| 50.6xx/xxM1zzzz, where xx/xx can be 50/63   | Outlet Bushings and Fittings |
| 50.6xx/xxMRzzzz, where xx/xx can be 12/16   | Outlet Bushings and Fittings |
| 50.6xx/xxMzzzz, where xx can be 12/16, 16/20, 20/25, 25/32, 32/40, 40/50 or 50/63 | Outlet Bushings and Fittings |
| 50.6xx/xxY(1)zzzz   | Outlet Bushings and Fittings |
| 50.6xx/xxY1zzzz, where xx/xx can be 50/63   | Outlet Bushings and Fittings |
| 50.6xx/xxYRzzzz, where xx/xx can be 12/16   | Outlet Bushings and Fittings |
| 50.6xx/xxYzzzz, where xx can be 12/16, 16/20, 20/25, 25/32, 32/40, 40/50 or 50/63 | Outlet Bushings and Fittings |
| 50.6xxES/EMVDRzzzz*   | Outlet Bushings and Fittings |
| 50.6xxES/EMVDzzzz+  | Outlet Bushings and Fittings |
| 50.6xxES/EMVRzzzz*  | Outlet Bushings and Fittings |

*B. Mahlen*

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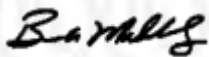
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**Report Reference** E140310-20110927  
**Date** 27-Aug-2020

|  |                              |
|--|------------------------------|
| 50.6xxES/EMVzzzz+                      | Outlet Bushings and Fittings |
| 50.6xxES/Rzzzz*                        | Outlet Bushings and Fittings |
| 50.6xxES1/EMVDzzzz, where xx can be 63 | Outlet Bushings and Fittings |
| 50.6xxES1EMVzzzz, where xx can be 63   | Outlet Bushings and Fittings |
| 50.6xxES1zzzz, where xx can be 63      | Outlet Bushings and Fittings |
| 50.6xxESzzzz*                          | Outlet Bushings and Fittings |
| 50.6xxM-Lzzzz*                         | Outlet Bushings and Fittings |
| 50.6xxM/EMV/Lzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxM/EMV/R/Lzzzz*                   | Outlet Bushings and Fittings |
| 50.6xxM/EMV/Rzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxM/EMVDRzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxM/EMVDzzzz+                      | Outlet Bushings and Fittings |
| 50.6xxM/EMVzzzz*                       | Outlet Bushings and Fittings |
| 50.6xxM/R/Lzzzz*                       | Outlet Bushings and Fittings |
| 50.6xxM/Rzzzz*                         | Outlet Bushings and Fittings |
| 50.6xxM1-Lzzzz, where xx can be 63     | Outlet Bushings and Fittings |
| 50.6xxM1/EMV/Lzzzz, where xx can be 63 | Outlet Bushings and Fittings |
| 50.6xxM1/EMVDzzzz, where xx can be 63  | Outlet Bushings and Fittings |
| 50.6xxM1/EMVzzzz, where xx can be 63   | Outlet Bushings and Fittings |
| 50.6xxM1zzzz, where xx can be 63       | Outlet Bushings and Fittings |
| 50.6xxMzzzz*                           | Outlet Bushings and Fittings |
| 50.6xxPA/FLlzzzz@                      | Outlet Bushings and Fittings |
| 50.6xxPA/FLzzzz@                       | Outlet Bushings and Fittings |
| 50.6xxPA/RLzzzz@                       | Outlet Bushings and Fittings |
| 50.6xxPA/Rzzzz@                        | Outlet Bushings and Fittings |
| 50.6xxPAFLRLzzzz@                      | Outlet Bushings and Fittings |
| 50.6xxPAFLRzzzz@                       | Outlet Bushings and Fittings |
| 50.6xxPAzzzz@                          | Outlet Bushings and Fittings |
| 50.6xxPAzzzzL@                         | Outlet Bushings and Fittings |
| 50.6xxY-Lzzzz*                         | Outlet Bushings and Fittings |
| 50.6xxY/EMV/Lzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxY/EMV/R/Lzzzz*                   | Outlet Bushings and Fittings |
| 50.6xxY/EMV/Rzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxY/EMVDRzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxY/EMVDzzzz+                      | Outlet Bushings and Fittings |
| 50.6xxY/EMVzzzz*                       | Outlet Bushings and Fittings |
| 50.6xxY/R/Lzzzz*                       | Outlet Bushings and Fittings |
| 50.6xxY/Rzzzz*                         | Outlet Bushings and Fittings |
| 50.6xxY1-Lzzzz, where xx can be 63     | Outlet Bushings and Fittings |
| 50.6xxY1/EMV/Lzzzz, where xx can be 63 | Outlet Bushings and Fittings |
| 50.6xxY1/EMVDzzzz, where xx can be 63  | Outlet Bushings and Fittings |
| 50.6xxY1/EMVzzzz, where xx can be 63   | Outlet Bushings and Fittings |
| 50.6xxY1zzzz, where xx can be 63       | Outlet Bushings and Fittings |
| 50.6xxYzzzz*                           | Outlet Bushings and Fittings |



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-CA-L140310-42-72901102-3  
**Report Reference** E140310-20110927  
**Date** 27-Aug-2020

**Issued to:** Jacob GmbH  
Elektrotechnische Fabrik  
Gottlieb-Daimler-Strasse 11 Kernen  
Germany 71394

**This is to certify that representative samples of** QCRV8 - Outlet Bushings and Fittings Certified for Canada - Component  
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

**Standard(s) for Safety:** CSA C22.2 NO. 18.3-12, 2nd Ed., Issue Date: 2012-07-01, Revision Date: 2014-11-21

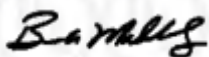
**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

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Look for the UL Recognized Component Mark on the product.

UL-CA-L140310-42-72901102-3  
E140310-20110927  
2020



Bruce Mahrenholz, Director North American Certification Program

UL LLC



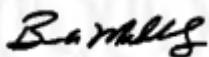
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| 50.011PAzzzz                                       | Outlet Bushings and Fittings |
| 50.013M20PARzzzz                                   | Outlet Bushings and Fittings |
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| 50.013PAzzzz                                       | Outlet Bushings and Fittings |
| 50.021M25PAzzzz                                    | Outlet Bushings and Fittings |
| 50.021PAzzzz                                       | Outlet Bushings and Fittings |
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| 50.110Rzzzz  | Outlet Bushings and Fittings |
| 50.110zzzz   | Outlet Bushings and Fittings |
| 50.11213PA/BSRzzzz                                 | Outlet Bushings and Fittings |
| 50.11213PA/Rzzzz                                   | Outlet Bushings and Fittings |
| 50.11213PABSzzzz                                   | Outlet Bushings and Fittings |
| 50.11213PAzzzz                                     | Outlet Bushings and Fittings |
| 50.112PA/BSRzzzz                                   | Outlet Bushings and Fittings |
| 50.112PA/BSzzzz                                    | Outlet Bushings and Fittings |
| 50.112PA/Rzzzz                                     | Outlet Bushings and Fittings |
| 50.112PAzzzz                                       | Outlet Bushings and Fittings |
| 50.112Rzzzz  | Outlet Bushings and Fittings |
| 50.112zzzz   | Outlet Bushings and Fittings |
| 50.114PA/Rzzzz                                     | Outlet Bushings and Fittings |
| 50.1200/1EMVzzzz                                   | Outlet Bushings and Fittings |
| 50.1200ES1/EMVzzzz                                 | Outlet Bushings and Fittings |
| 50.134PA/BSRzzzz                                   | Outlet Bushings and Fittings |
| 50.134PA/BSzzzz                                    | Outlet Bushings and Fittings |
| 50.134PA/Rzzzz                                     | Outlet Bushings and Fittings |
| 50.134PAzzzz                                       | Outlet Bushings and Fittings |
| 50.134Rzzzz  | Outlet Bushings and Fittings |
| 50.134zzzz   | Outlet Bushings and Fittings |
| 50.138PA/BSRzzzz                                   | Outlet Bushings and Fittings |
| 50.138PA/BSzzzz                                    | Outlet Bushings and Fittings |
| 50.138PA/Rzzzz                                     | Outlet Bushings and Fittings |



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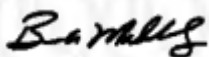




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**Date**                      27-Aug-2020

|   |                              |
|---|------------------------------|
| 50.138PAzzzz  | Outlet Bushings and Fittings |
| 50.138Rzzzz   | Outlet Bushings and Fittings |
| 50.138zzzz  | Outlet Bushings and Fittings |
| 50.1xx/1EMVzzzz, where xx can be 200  | Outlet Bushings and Fittings |
| 50.1xx/EMVRzzzz\$   | Outlet Bushings and Fittings |
| 50.1xx/EMVzzzz\$  | Outlet Bushings and Fittings |
| 50.1xxES/EMVRzzzz\$   | Outlet Bushings and Fittings |
| 50.1xxES/EMVzzzz\$  | Outlet Bushings and Fittings |
| 50.1xxES1/EMVzzzz, where xx can be 200  | Outlet Bushings and Fittings |
| 50.1xxRzzzz, where xx can be 38, 12, 34 or 10                                     | Outlet Bushings and Fittings |
| 50.1xxY/EMVRzzzz\$  | Outlet Bushings and Fittings |
| 50.1xxY/EMVzzzz\$   | Outlet Bushings and Fittings |
| 50.1xxY1/EMVzzzz, where xx can be 200   | Outlet Bushings and Fittings |
| 50.1xxYRzzzz, where xx can be 38, 12, 34 or 10                                    | Outlet Bushings and Fittings |
| 50.1xxYzzzz, where xx can be 38, 12, 34 or 10                                     | Outlet Bushings and Fittings |
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| 50.625/32Mzzzz  | Outlet Bushings and Fittings |
| 50.632/40Mzzzz  | Outlet Bushings and Fittings |
| 50.640/50Mzzzz  | Outlet Bushings and Fittings |
| 50.650/63M1zzzz   | Outlet Bushings and Fittings |
| 50.650/63Mzzzz  | Outlet Bushings and Fittings |
| 50.663ES1/EMVDzzzz  | Outlet Bushings and Fittings |
| 50.663ES1EMVzzzz  | Outlet Bushings and Fittings |
| 50.663ES1zzzz   | Outlet Bushings and Fittings |
| 50.663M1-Lzzzz  | Outlet Bushings and Fittings |
| 50.663M1/EMV/Lzzzz  | Outlet Bushings and Fittings |
| 50.663M1/EMVDzzzz   | Outlet Bushings and Fittings |
| 50.663M1/EMVzzzz  | Outlet Bushings and Fittings |
| 50.663M1zzzz  | Outlet Bushings and Fittings |
| 50.6xx/xxM1zzzz, where xx/xx can be 50/63   | Outlet Bushings and Fittings |
| 50.6xx/xxMRzzzz, where xx/xx can be 12/16   | Outlet Bushings and Fittings |
| 50.6xx/xxMzzzz, where xx can be 12/16, 16/20, 20/25, 25/32, 32/40, 40/50 or 50/63 | Outlet Bushings and Fittings |
| 50.6xx/xxY(1)zzzz   | Outlet Bushings and Fittings |
| 50.6xx/xxY1zzzz, where xx/xx can be 50/63   | Outlet Bushings and Fittings |
| 50.6xx/xxYRzzzz, where xx/xx can be 12/16   | Outlet Bushings and Fittings |
| 50.6xx/xxYzzzz, where xx can be 12/16, 16/20, 20/25, 25/32, 32/40, 40/50 or 50/63 | Outlet Bushings and Fittings |
| 50.6xxES/EMVDRzzzz*   | Outlet Bushings and Fittings |
| 50.6xxES/EMVDzzzz+  | Outlet Bushings and Fittings |
| 50.6xxES/EMVRzzzz*  | Outlet Bushings and Fittings |



Bruce Mahrenholz, Director North American Certification Program

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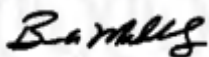
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|  |                              |
|--|------------------------------|
| 50.6xxES/EMVzzzz+                      | Outlet Bushings and Fittings |
| 50.6xxES/Rzzzz*                        | Outlet Bushings and Fittings |
| 50.6xxES1/EMVDzzzz, where xx can be 63 | Outlet Bushings and Fittings |
| 50.6xxES1EMVzzzz, where xx can be 63   | Outlet Bushings and Fittings |
| 50.6xxES1zzzz, where xx can be 63      | Outlet Bushings and Fittings |
| 50.6xxESzzzz*                          | Outlet Bushings and Fittings |
| 50.6xxM-Lzzzz*                         | Outlet Bushings and Fittings |
| 50.6xxM/EMV/Lzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxM/EMV/R/Lzzzz*                   | Outlet Bushings and Fittings |
| 50.6xxM/EMV/Rzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxM/EMVDRzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxM/EMVDzzzz+                      | Outlet Bushings and Fittings |
| 50.6xxM/EMVzzzz*                       | Outlet Bushings and Fittings |
| 50.6xxM/R/Lzzzz*                       | Outlet Bushings and Fittings |
| 50.6xxM/Rzzzz*                         | Outlet Bushings and Fittings |
| 50.6xxM1-Lzzzz, where xx can be 63     | Outlet Bushings and Fittings |
| 50.6xxM1/EMV/Lzzzz, where xx can be 63 | Outlet Bushings and Fittings |
| 50.6xxM1/EMVDzzzz, where xx can be 63  | Outlet Bushings and Fittings |
| 50.6xxM1/EMVzzzz, where xx can be 63   | Outlet Bushings and Fittings |
| 50.6xxM1zzzz, where xx can be 63       | Outlet Bushings and Fittings |
| 50.6xxMzzzz*                           | Outlet Bushings and Fittings |
| 50.6xxPA/FLlzzzz@                      | Outlet Bushings and Fittings |
| 50.6xxPA/FLzzzz@                       | Outlet Bushings and Fittings |
| 50.6xxPA/RLzzzz@                       | Outlet Bushings and Fittings |
| 50.6xxPA/Rzzzz@                        | Outlet Bushings and Fittings |
| 50.6xxPAFLRLzzzz@                      | Outlet Bushings and Fittings |
| 50.6xxPAFLRzzzz@                       | Outlet Bushings and Fittings |
| 50.6xxPAzzzz@                          | Outlet Bushings and Fittings |
| 50.6xxPAzzzzL@                         | Outlet Bushings and Fittings |
| 50.6xxY-Lzzzz*                         | Outlet Bushings and Fittings |
| 50.6xxY/EMV/Lzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxY/EMV/R/Lzzzz*                   | Outlet Bushings and Fittings |
| 50.6xxY/EMV/Rzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxY/EMVDRzzzz*                     | Outlet Bushings and Fittings |
| 50.6xxY/EMVDzzzz+                      | Outlet Bushings and Fittings |
| 50.6xxY/EMVzzzz*                       | Outlet Bushings and Fittings |
| 50.6xxY/R/Lzzzz*                       | Outlet Bushings and Fittings |
| 50.6xxY/Rzzzz*                         | Outlet Bushings and Fittings |
| 50.6xxY1-Lzzzz, where xx can be 63     | Outlet Bushings and Fittings |
| 50.6xxY1/EMV/Lzzzz, where xx can be 63 | Outlet Bushings and Fittings |
| 50.6xxY1/EMVDzzzz, where xx can be 63  | Outlet Bushings and Fittings |
| 50.6xxY1/EMVzzzz, where xx can be 63   | Outlet Bushings and Fittings |
| 50.6xxY1zzzz, where xx can be 63       | Outlet Bushings and Fittings |
| 50.6xxYzzzz*                           | Outlet Bushings and Fittings |



Bruce Mahrenholz, Director North American Certification Program

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