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**Part Number:** [0022280066](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch KK® Header, Breakaway, Vertical, with Friction Lock, 6 Circuits, Tin (Sn) Plating, with Backwalls Removed

**Documents:**

|                                               |                                                      |
|-----------------------------------------------|------------------------------------------------------|
| <a href="#">3D Model</a>                      | <a href="#">Product Specification PS-10-07 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                 | <a href="#">RoHS Certificate of Compliance (PDF)</a> |
| <a href="#">Packaging Specification (PDF)</a> |                                                      |

**Agency Certification**

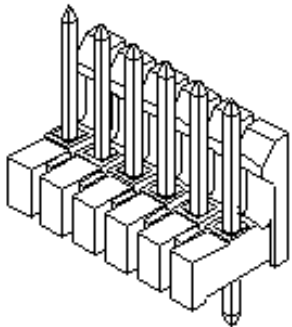
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |                       |
|----------------|-----------------------|
| Product Family | PCB Headers           |
| Series         | <a href="#">42227</a> |
| Application    | Wire-to-Board         |
| Comments       | Backwalls Removed     |
| Product Name   | KK®                   |

**Physical**

|                                |              |
|--------------------------------|--------------|
| Breakaway                      | Yes          |
| Circuits (Loaded)              | 6            |
| Circuits (maximum)             | 6            |
| Color - Resin                  | Black        |
| Durability (mating cycles max) | 25           |
| Flammability                   | 94V-0        |
| Glow-Wire Compliant            | No           |
| Lock to Mating Part            | Yes          |
| Material - Metal               | Brass        |
| Material - Plating Mating      | Tin          |
| Material - Plating Termination | Tin          |
| Material - Resin               | Nylon        |
| Number of Rows                 | 1            |
| Orientation                    | Vertical     |
| PC Tail Length (in)            | 0.120 In     |
| PC Tail Length (mm)            | 3.05 mm      |
| PCB Locator                    | No           |
| PCB Retention                  | None         |
| PCB Thickness Recommended (in) | 0.062 In     |
| PCB Thickness Recommended (mm) | 1.60 mm      |
| Packaging Type                 | Bag          |
| Pitch - Mating Interface (in)  | 0.100 In     |
| Pitch - Mating Interface (mm)  | 2.54 mm      |
| Plating min: Mating (µin)      | 100          |
| Plating min: Mating (µm)       | 2.5          |
| Plating min: Termination (µin) | 100          |
| Plating min: Termination (µm)  | 2.5          |
| Polarized to Mating Part       | No           |
| Polarized to PCB               | No           |
| Shrouded                       | No           |
| Stackable                      | No           |
| Temperature Range - Operating  | 0°C to +75°C |
| Termination Interface: Style   | Through Hole |



*Series  
image - Reference only*

**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC  
Contains SVHC: No**  
**Halogen-Free  
Status  
Not Reviewed**

**China RoHS**



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environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**  
[42227Series](#)

**Mates With**  
[2695](#) , [6471](#) , [7880](#) , [4455](#) , [7720](#)

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 4A   |
| Voltage - Maximum             | 250V |

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 5                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 235                    |

**Material Info**

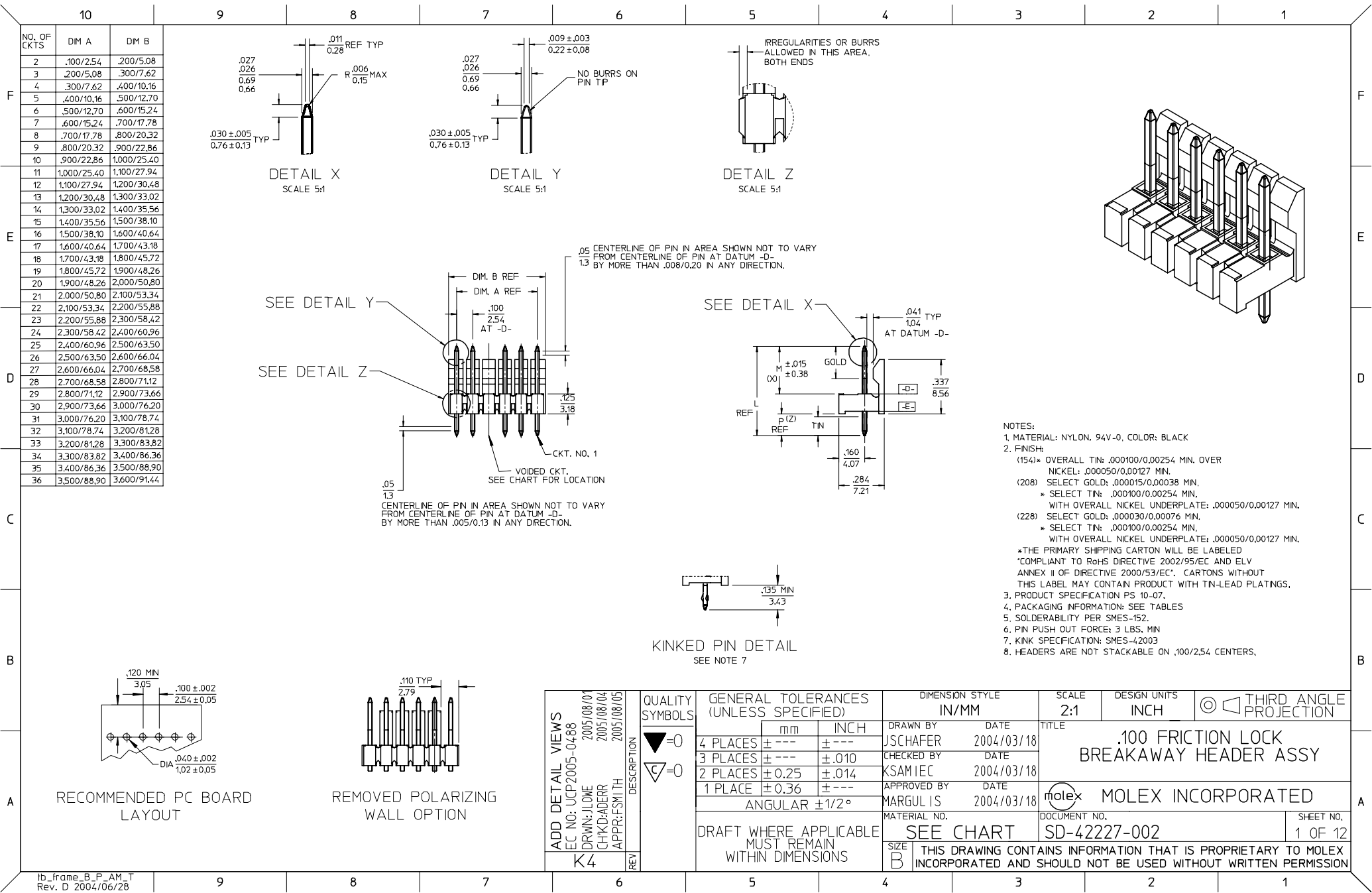
|                 |            |
|-----------------|------------|
| Old Part Number | 42227-0216 |
|-----------------|------------|

**Reference - Drawing Numbers**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-10-07     |
| Sales Drawing         | SD-42227-002 |

This document was generated on 03/21/2010

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NOTES:  
1. MATERIAL: NYLON, 94V-0, COLOR: BLACK  
2. FINISH:  
(154)\* OVERALL TIN: .000100/0.00254 MIN. OVER  
NICKEL: .000050/0.00127 MIN.  
(208) SELECT GOLD: .000015/0.00038 MIN.  
\* SELECT TIN: .000100/0.00254 MIN.  
WITH OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.  
(228) SELECT GOLD: .000030/0.00076 MIN.  
\* SELECT TIN: .000100/0.00254 MIN.  
WITH OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.  
\*THE PRIMARY SHIPPING CARTON WILL BE LABELED  
"COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV  
ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT  
THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATINGS.  
3. PRODUCT SPECIFICATION PS 10-07.  
4. PACKAGING INFORMATION: SEE TABLES  
5. SOLDERABILITY PER SMES-152.  
6. PIN PUSH OUT FORCE: 3 LBS. MIN  
7. KINK SPECIFICATION: SMES-42003  
8. HEADERS ARE NOT STACKABLE ON .100/2.54 CENTERS.

|                                                                                                                        |  |             |                                                            |                                       |        |                          |                                                                                                                               |                                                      |                      |                               |  |
|------------------------------------------------------------------------------------------------------------------------|--|-------------|------------------------------------------------------------|---------------------------------------|--------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------|-------------------------------|--|
| ADD DETAIL VIEWS<br>EC NO: UCP2005-0488<br>DRWN: JLOME 2005/08/01<br>CHKD: ADERR 2005/08/04<br>APPR: FSWJTH 2005/08/05 |  | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0                          | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | DIMENSION STYLE<br>IN/MM |                                                                                                                               | SCALE<br>2:1                                         | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION<br>◎ □ |  |
|                                                                                                                        |  |             |                                                            | mm                                    | INCH   | DRAWN BY<br>JSCHAFER     | DATE<br>2004/03/18                                                                                                            | TITLE<br>.100 FRICTION LOCK<br>BREAKAWAY HEADER ASSY |                      |                               |  |
| K4                                                                                                                     |  | REV         | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | 4 PLACES                              | ± ---  | ± ---                    | CHECKED BY<br>KSAMIEC                                                                                                         |                                                      |                      |                               |  |
|                                                                                                                        |  |             |                                                            | 3 PLACES                              | ± ---  | ± .010                   | APPROVED BY<br>MARGULIS                                                                                                       | DATE<br>2004/03/18                                   |                      |                               |  |
|                                                                                                                        |  |             |                                                            | 2 PLACES                              | ± 0.25 | ± .014                   | MOLEX MOLEX INCORPORATED                                                                                                      |                                                      |                      |                               |  |
|                                                                                                                        |  |             |                                                            | 1 PLACE                               | ± 0.36 | ± ---                    |                                                                                                                               |                                                      |                      |                               |  |
|                                                                                                                        |  |             |                                                            | ANGULAR ±1/2°                         |        | MATERIAL NO.             | DOCUMENT NO.<br>SD-42227-002                                                                                                  | SHEET NO.<br>1 OF 12                                 |                      |                               |  |
|                                                                                                                        |  |             |                                                            |                                       |        | SIZE<br>B                | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                      |                      |                               |  |

|                                                                          |                 |                 |      |                         |              |                                              |                 |                          |      |                 |              |
|--------------------------------------------------------------------------|-----------------|-----------------|------|-------------------------|--------------|----------------------------------------------|-----------------|--------------------------|------|-----------------|--------------|
|                                                                          |                 |                 |      |                         |              |                                              |                 |                          |      |                 |              |
| A-42227-0213/0246                                                        |                 |                 |      |                         |              | A-42227-0248/0281                            |                 |                          |      |                 |              |
| HEADER NUMBER:                                                           |                 | 41411           |      |                         |              | HEADER NUMBER:                               |                 | 41411                    |      |                 |              |
| PIN NUMBER:                                                              |                 | 42663-AXA154    |      |                         |              | PIN NUMBER:                                  |                 | 42663-AXB208             |      |                 |              |
| PIN LENGTH: L                                                            |                 | .540/13.72      |      |                         |              | PIN LENGTH: L                                |                 | .540/13.72               |      |                 |              |
| MATING LENGTH: M                                                         |                 | .295/7.49       |      |                         |              | MATING LENGTH: M                             |                 | .295/7.49                |      |                 |              |
| GOLD POINT: G                                                            |                 | N/A             |      |                         |              | GOLD POINT: G                                |                 | .140/3.56                |      |                 |              |
| PC TAIL LENGTH: P                                                        |                 | .120/3.05       |      |                         |              | PC TAIL LENGTH: P                            |                 | .120/3.05                |      |                 |              |
| TIN: T                                                                   |                 | OVERALL         |      |                         |              | TIN: T                                       |                 | .135/3.43                |      |                 |              |
| CKTS:                                                                    |                 | 3-36            |      |                         |              | CKTS:                                        |                 | 3-36                     |      |                 |              |
| KINKS:                                                                   |                 | NO              |      |                         |              | KINKS:                                       |                 | NO                       |      |                 |              |
| REMOVED BACKWALLS:                                                       |                 | YES             |      |                         |              | REMOVED BACKWALLS:                           |                 | YES                      |      |                 |              |
| VOIDED CKTS:                                                             |                 | NONE            |      |                         |              | VOIDED CKTS:                                 |                 | NONE                     |      |                 |              |
| PACKAGING:                                                               |                 | BULK 40873-0056 |      |                         |              | PACKAGING:                                   |                 | BULK 40873-0056          |      |                 |              |
| CKTS                                                                     | MATERIAL NUMBER | ENG NUMBER      | CKTS | MATERIAL NUMBER         | ENG NUMBER   | CKTS                                         | MATERIAL NUMBER | ENG NUMBER               | CKTS | MATERIAL NUMBER | ENG NUMBER   |
| 02                                                                       |                 |                 | 20   | 22-28-0206              | A-42227-0230 | 02                                           |                 |                          | 20   | 22-28-0207      | A-42227-0265 |
| 03                                                                       | 22-28-0036      | A-42227-0213    | 21   | 22-28-0216              | A-42227-0231 | 03                                           | 22-28-0037      | A-42227-0248             | 21   | 22-28-0217      | A-42227-0266 |
| 04                                                                       | 22-28-0046      | A-42227-0214    | 22   | 22-28-0226              | A-42227-0232 | 04                                           | 22-28-0047      | A-42227-0249             | 22   | 22-28-0227      | A-42227-0267 |
| 05                                                                       | 22-28-0056      | A-42227-0215    | 23   | 22-28-0236              | A-42227-0233 | 05                                           | 22-28-0057      | A-42227-0250             | 23   | 22-28-0237      | A-42227-0268 |
| 06                                                                       | 22-28-0066      | A-42227-0216    | 24   | 22-28-0246              | A-42227-0234 | 06                                           | 22-28-0067      | A-42227-0251             | 24   | 22-28-0247      | A-42227-0269 |
| 07                                                                       | 22-28-0076      | A-42227-0217    | 25   | 22-28-0256              | A-42227-0235 | 07                                           | 22-28-0077      | A-42227-0252             | 25   | 22-28-0257      | A-42227-0270 |
| 08                                                                       | 22-28-0086      | A-42227-0218    | 26   | 22-28-0266              | A-42227-0236 | 08                                           | 22-28-0087      | A-42227-0253             | 26   | 22-28-0267      | A-42227-0271 |
| 09                                                                       | 22-28-0096      | A-42227-0219    | 27   | 22-28-0276              | A-42227-0237 | 09                                           | 22-28-0097      | A-42227-0254             | 27   | 22-28-0277      | A-42227-0272 |
| 10                                                                       | 22-28-0106      | A-42227-0220    | 28   | 22-28-0286              | A-42227-0238 | 10                                           | 22-28-0107      | A-42227-0255             | 28   | 22-28-0287      | A-42227-0273 |
| 11                                                                       | 22-28-0116      | A-42227-0221    | 29   | 22-28-0296              | A-42227-0239 | 11                                           | 22-28-0117      | A-42227-0256             | 29   | 22-28-0297      | A-42227-0274 |
| 12                                                                       | 22-28-0126      | A-42227-0222    | 30   | 22-28-0306              | A-42227-0240 | 12                                           | 22-28-0127      | A-42227-0257             | 30   | 22-28-0307      | A-42227-0275 |
| 13                                                                       | 22-28-0136      | A-42227-0223    | 31   | 22-28-0316              | A-42227-0241 | 13                                           | 22-28-0137      | A-42227-0258             | 31   | 22-28-0317      | A-42227-0276 |
| 14                                                                       | 22-28-0146      | A-42227-0224    | 32   | 22-28-0326              | A-42227-0242 | 14                                           | 22-28-0147      | A-42227-0259             | 32   | 22-28-0327      | A-42227-0277 |
| 15                                                                       | 22-28-0156      | A-42227-0225    | 33   | 22-28-0336              | A-42227-0243 | 15                                           | 22-28-0157      | A-42227-0260             | 33   | 22-28-0337      | A-42227-0278 |
| 16                                                                       | 22-28-0166      | A-42227-0226    | 34   | 22-28-0346              | A-42227-0244 | 16                                           | 22-28-0167      | A-42227-0261             | 34   | 22-28-0347      | A-42227-0279 |
| 17                                                                       | 22-28-0176      | A-42227-0227    | 35   | 22-28-0356              | A-42227-0245 | 17                                           | 22-28-0177      | A-42227-0262             | 35   | 22-28-0357      | A-42227-0280 |
| 18                                                                       | 22-28-0186      | A-42227-0228    | 36   | 22-28-0366              | A-42227-0246 | 18                                           | 22-28-0187      | A-42227-0263             | 36   | 22-28-0367      | A-42227-0281 |
| 19                                                                       | 22-28-0196      | A-42227-0229    |      |                         |              | 19                                           | 22-28-0197      | A-42227-0264             |      |                 |              |
|                                                                          |                 |                 |      |                         |              |                                              |                 |                          |      |                 |              |
| REV:                                                                     |                 |                 |      |                         |              | TITLE:                                       |                 |                          |      | SHEET No.       |              |
| <b>K3</b>                                                                |                 |                 |      |                         |              | .100 FRICTION LOCK<br>BREAKAWAY HEADER ASSY. |                 |                          |      | <b>- 2 -</b>    |              |
| DOCUMENT NUMBER:                                                         |                 |                 |      | CREATED / REVISED BY:   |              | CHECKED BY:                                  |                 | APPROVED BY:             |      |                 |              |
| <b>SD- 42227 -002</b>                                                    |                 |                 |      | <b>ADERR 04/22/2005</b> |              | <b>SSOUSEK 04/25/2005</b>                    |                 | <b>FSMITH 04/26/2005</b> |      |                 |              |
| <div> <div>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</div> </div> |                 |                 |      |                         |              |                                              |                 |                          |      |                 |              |

|                                                                 |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |
|-----------------------------------------------------------------|-----------------|--------------|-----------------|-------------------------|--------------|----------------------------------------------|-----------------|--------------------------|-----------------|-----------------|--------------|
|                                                                 |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |
| A-42227-0283/0316                                               |                 |              |                 |                         |              | A-42227-0318/0351                            |                 |                          |                 |                 |              |
| HEADER NUMBER:                                                  |                 |              | 41411           |                         |              | HEADER NUMBER:                               |                 |                          | 41411           |                 |              |
| PIN NUMBER:                                                     |                 |              | 42663-AXB228    |                         |              | PIN NUMBER:                                  |                 |                          | 42663-BAA154    |                 |              |
| PIN LENGTH: L                                                   |                 |              | .540/13.72      |                         |              | PIN LENGTH: L                                |                 |                          | .555/14.10      |                 |              |
| MATING LENGTH: M                                                |                 |              | .295/7.49       |                         |              | MATING LENGTH: M                             |                 |                          | .295/7.49       |                 |              |
| GOLD POINT: G                                                   |                 |              | .140/3.56       |                         |              | GOLD POINT: G                                |                 |                          | N/A             |                 |              |
| PC TAIL LENGTH: P                                               |                 |              | .120/3.05       |                         |              | PC TAIL LENGTH: P                            |                 |                          | .135/3.43       |                 |              |
| TIN: T                                                          |                 |              | .135/3.43       |                         |              | TIN: T                                       |                 |                          | OVERALL         |                 |              |
| CKTS:                                                           |                 |              | 3-36            |                         |              | CKTS:                                        |                 |                          | 3-36            |                 |              |
| KINKS:                                                          |                 |              | NO              |                         |              | KINKS:                                       |                 |                          | YES             |                 |              |
| REMOVED BACKWALLS:                                              |                 |              | YES             |                         |              | REMOVED BACKWALLS:                           |                 |                          | YES             |                 |              |
| VOIDED CKTS:                                                    |                 |              | NONE            |                         |              | VOIDED CKTS:                                 |                 |                          | NONE            |                 |              |
| PACKAGING:                                                      |                 |              | BULK 40873-0056 |                         |              | PACKAGING:                                   |                 |                          | BULK 40873-0056 |                 |              |
| CKTS                                                            | MATERIAL NUMBER | ENG NUMBER   | CKTS            | MATERIAL NUMBER         | ENG NUMBER   | CKTS                                         | MATERIAL NUMBER | ENG NUMBER               | CKTS            | MATERIAL NUMBER | ENG NUMBER   |
| 02                                                              |                 |              | 20              | 22-28-0208              | A-42227-0300 | 02                                           |                 |                          | 20              | 22-28-0209      | A-42227-0335 |
| 03                                                              | 22-28-0038      | A-42227-0283 | 21              | 22-28-0218              | A-42227-0301 | 03                                           | 22-28-0039      | A-42227-0318             | 21              | 22-28-0219      | A-42227-0336 |
| 04                                                              | 22-28-0048      | A-42227-0284 | 22              | 22-28-0228              | A-42227-0302 | 04                                           | 22-28-0049      | A-42227-0319             | 22              | 22-28-0229      | A-42227-0337 |
| 05                                                              | 22-28-0058      | A-42227-0285 | 23              | 22-28-0238              | A-42227-0303 | 05                                           | 22-28-0059      | A-42227-0320             | 23              | 22-28-0239      | A-42227-0338 |
| 06                                                              | 22-28-0068      | A-42227-0286 | 24              | 22-28-0248              | A-42227-0304 | 06                                           | 22-28-0069      | A-42227-0321             | 24              | 22-28-0249      | A-42227-0339 |
| 07                                                              | 22-28-0078      | A-42227-0287 | 25              | 22-28-0258              | A-42227-0305 | 07                                           | 22-28-0079      | A-42227-0322             | 25              | 22-28-0259      | A-42227-0340 |
| 08                                                              | 22-28-0088      | A-42227-0288 | 26              | 22-28-0268              | A-42227-0306 | 08                                           | 22-28-0089      | A-42227-0323             | 26              | 22-28-0269      | A-42227-0341 |
| 09                                                              | 22-28-0098      | A-42227-0289 | 27              | 22-28-0278              | A-42227-0307 | 09                                           | 22-28-0099      | A-42227-0324             | 27              | 22-28-0279      | A-42227-0342 |
| 10                                                              | 22-28-0108      | A-42227-0290 | 28              | 22-28-0288              | A-42227-0308 | 10                                           | 22-28-0109      | A-42227-0325             | 28              | 22-28-0289      | A-42227-0343 |
| 11                                                              | 22-28-0118      | A-42227-0291 | 29              | 22-28-0298              | A-42227-0309 | 11                                           | 22-28-0119      | A-42227-0326             | 29              | 22-28-0299      | A-42227-0344 |
| 12                                                              | 22-28-0128      | A-42227-0292 | 30              | 22-28-0308              | A-42227-0310 | 12                                           | 22-28-0129      | A-42227-0327             | 30              | 22-28-0309      | A-42227-0345 |
| 13                                                              | 22-28-0138      | A-42227-0293 | 31              | 22-28-0318              | A-42227-0311 | 13                                           | 22-28-0139      | A-42227-0328             | 31              | 22-28-0319      | A-42227-0346 |
| 14                                                              | 22-28-0148      | A-42227-0294 | 32              | 22-28-0328              | A-42227-0312 | 14                                           | 22-28-0149      | A-42227-0329             | 32              | 22-28-0329      | A-42227-0347 |
| 15                                                              | 22-28-0158      | A-42227-0295 | 33              | 22-28-0338              | A-42227-0313 | 15                                           | 22-28-0159      | A-42227-0330             | 33              | 22-28-0339      | A-42227-0348 |
| 16                                                              | 22-28-0168      | A-42227-0296 | 34              | 22-28-0348              | A-42227-0314 | 16                                           | 22-28-0169      | A-42227-0331             | 34              | 22-28-0349      | A-42227-0349 |
| 17                                                              | 22-28-0178      | A-42227-0297 | 35              | 22-28-0358              | A-42227-0315 | 17                                           | 22-28-0179      | A-42227-0332             | 35              | 22-28-0359      | A-42227-0350 |
| 18                                                              | 22-28-0188      | A-42227-0298 | 36              | 22-28-0368              | A-42227-0316 | 18                                           | 22-28-0189      | A-42227-0333             | 36              | 22-28-0369      | A-42227-0351 |
| 19                                                              | 22-28-0198      | A-42227-0299 |                 |                         |              | 19                                           | 22-28-0199      | A-42227-0334             |                 |                 |              |
|                                                                 |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |
| REV:                                                            |                 |              |                 |                         |              | TITLE:                                       |                 |                          |                 | SHEET No.       |              |
| <b>K3</b>                                                       |                 |              |                 |                         |              | .100 FRICTION LOCK<br>BREAKAWAY HEADER ASSY. |                 |                          |                 | <b>- 3 -</b>    |              |
| DOCUMENT NUMBER:                                                |                 |              |                 | CREATED / REVISED BY:   |              | CHECKED BY:                                  |                 | APPROVED BY:             |                 |                 |              |
| <b>SD- 42227 -002</b>                                           |                 |              |                 | <b>ADERR 04/22/2005</b> |              | <b>SSOUSEK 04/25/2005</b>                    |                 | <b>FSMITH 04/26/2005</b> |                 |                 |              |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |

|                    |                 |                 |      |                 |              |                    |                 |                 |      |                 |              |
|--------------------|-----------------|-----------------|------|-----------------|--------------|--------------------|-----------------|-----------------|------|-----------------|--------------|
| A-42227-0422/0455  |                 |                 |      |                 |              | A-42227-0456/0487  |                 |                 |      |                 |              |
| HEADER NUMBER:     |                 | 41411           |      |                 |              | HEADER NUMBER:     |                 | 41411           |      |                 |              |
| PIN NUMBER:        |                 | 42663-AXB228    |      |                 |              | PIN NUMBER:        |                 | 42663-AXB228    |      |                 |              |
| PIN LENGTH: L      |                 | .540/13.72      |      |                 |              | PIN LENGTH: L      |                 | .540/13.72      |      |                 |              |
| MATING LENGTH: M   |                 | .295/7.49       |      |                 |              | MATING LENGTH: M   |                 | .295/7.49       |      |                 |              |
| GOLD POINT: G      |                 | .140/3.56       |      |                 |              | GOLD POINT: G      |                 | .140/3.56       |      |                 |              |
| PC TAIL LENGTH: P  |                 | .120/3.05       |      |                 |              | PC TAIL LENGTH: P  |                 | .120/3.05       |      |                 |              |
| TIN: T             |                 | .135/3.43       |      |                 |              | TIN: T             |                 | .135/3.43       |      |                 |              |
| CKTS:              |                 | 3-36            |      |                 |              | CKTS:              |                 | 5-36            |      |                 |              |
| KINKS:             |                 | NO              |      |                 |              | KINKS:             |                 | NO              |      |                 |              |
| REMOVED BACKWALLS: |                 | YES             |      |                 |              | REMOVED BACKWALLS: |                 | YES             |      |                 |              |
| VOIDED CKTS:       |                 | 3               |      |                 |              | VOIDED CKTS:       |                 | 5               |      |                 |              |
| PACKAGING:         |                 | BULK 40873-0056 |      |                 |              | PACKAGING:         |                 | BULK 40873-0056 |      |                 |              |
| CKTS               | MATERIAL NUMBER | ENG NUMBER      | CKTS | MATERIAL NUMBER | ENG NUMBER   | CKTS               | MATERIAL NUMBER | ENG NUMBER      | CKTS | MATERIAL NUMBER | ENG NUMBER   |
| 02                 |                 |                 | 20   | 42227-0439      | A-42227-0439 | 02                 |                 |                 | 20   | 42227-0471      | A-42227-0471 |
| 03                 | 42227-0422      | A-42227-0422    | 21   | 42227-0440      | A-42227-0440 | 03                 |                 |                 | 21   | 42227-0472      | A-42227-0472 |
| 04                 | 42227-0423      | A-42227-0423    | 22   | 42227-0441      | A-42227-0441 | 04                 |                 |                 | 22   | 42227-0473      | A-42227-0473 |
| 05                 | 42227-0424      | A-42227-0424    | 23   | 42227-0442      | A-42227-0442 | 05                 | 42227-0456      | A-42227-0456    | 23   | 42227-0474      | A-42227-0474 |
| 06                 | 42227-0425      | A-42227-0425    | 24   | 42227-0443      | A-42227-0443 | 06                 | 42227-0457      | A-42227-0457    | 24   | 42227-0475      | A-42227-0475 |
| 07                 | 22-29-0070      | A-42227-0426    | 25   | 42227-0444      | A-42227-0444 | 07                 | 42227-0458      | A-42227-0458    | 25   | 42227-0476      | A-42227-0476 |
| 08                 | 42227-0427      | A-42227-0427    | 26   | 42227-0445      | A-42227-0445 | 08                 | 42227-0459      | A-42227-0459    | 26   | 42227-0477      | A-42227-0477 |
| 09                 | 42227-0428      | A-42227-0428    | 27   | 42227-0446      | A-42227-0446 | 09                 | 42227-0460      | A-42227-0460    | 27   | 42227-0478      | A-42227-0478 |
| 10                 | 42227-0429      | A-42227-0429    | 28   | 42227-0447      | A-42227-0447 | 10                 | 22-29-0101      | A-42227-0461    | 28   | 42227-0479      | A-42227-0479 |
| 11                 | 42227-0430      | A-42227-0430    | 29   | 42227-0448      | A-42227-0448 | 11                 | 22-29-0111      | A-42227-0462    | 29   | 42227-0480      | A-42227-0480 |
| 12                 | 42227-0431      | A-42227-0431    | 30   | 42227-0449      | A-42227-0449 | 12                 | 42227-0463      | A-42227-0463    | 30   | 42227-0481      | A-42227-0481 |
| 13                 | 42227-0432      | A-42227-0432    | 31   | 42227-0450      | A-42227-0450 | 13                 | 42227-0464      | A-42227-0464    | 31   | 42227-0482      | A-42227-0482 |
| 14                 | 42227-0433      | A-42227-0433    | 32   | 42227-0451      | A-42227-0451 | 14                 | 42227-0465      | A-42227-0465    | 32   | 42227-0483      | A-42227-0483 |
| 15                 | 42227-0434      | A-42227-0434    | 33   | 42227-0452      | A-42227-0452 | 15                 | 42227-0466      | A-42227-0466    | 33   | 42227-0484      | A-42227-0484 |
| 16                 | 42227-0435      | A-42227-0435    | 34   | 42227-0453      | A-42227-0453 | 16                 | 42227-0467      | A-42227-0467    | 34   | 42227-0485      | A-42227-0485 |
| 17                 | 42227-0436      | A-42227-0436    | 35   | 42227-0454      | A-42227-0454 | 17                 | 42227-0468      | A-42227-0468    | 35   | 42227-0486      | A-42227-0486 |
| 18                 | 42227-0437      | A-42227-0437    | 36   | 42227-0455      | A-42227-0455 | 18                 | 42227-0469      | A-42227-0469    | 36   | 42227-0487      | A-42227-0487 |
| 19                 | 42227-0438      | A-42227-0438    |      |                 |              | 19                 | 42227-0470      | A-42227-0470    |      |                 |              |

|                       |                                              |                           |                          |
|-----------------------|----------------------------------------------|---------------------------|--------------------------|
| REV:                  | TITLE:                                       |                           | SHEET No.                |
| <b>K3</b>             | .100 FRICTION LOCK<br>BREAKAWAY HEADER ASSY. |                           | <b>- 4 -</b>             |
| DOCUMENT NUMBER:      | CREATED / REVISED BY:                        | CHECKED BY:               | APPROVED BY:             |
| <b>SD- 42227 -002</b> | <b>ADERR 04/22/2005</b>                      | <b>SSOUSEK 04/25/2005</b> | <b>FSMITH 04/26/2005</b> |

TEMPLATE FILENAME: PRODUCT\_SPEC[SIZE\_A](V.1).DOC

|                                                                                     |                 |                 |      |                 |              |                       |                 |                                              |      |                 |              |                           |  |              |  |                   |  |
|-------------------------------------------------------------------------------------|-----------------|-----------------|------|-----------------|--------------|-----------------------|-----------------|----------------------------------------------|------|-----------------|--------------|---------------------------|--|--------------|--|-------------------|--|
|                                                                                     |                 |                 |      |                 |              |                       |                 |                                              |      |                 |              |                           |  |              |  |                   |  |
|                                                                                     |                 |                 |      |                 |              |                       |                 |                                              |      |                 |              |                           |  |              |  |                   |  |
| A-42227-0488/0521                                                                   |                 |                 |      |                 |              | A-42227-0522/0555     |                 |                                              |      |                 |              |                           |  |              |  |                   |  |
| HEADER NUMBER:                                                                      |                 | 41411           |      |                 |              | HEADER NUMBER:        |                 | 41411                                        |      |                 |              |                           |  |              |  |                   |  |
| PIN NUMBER:                                                                         |                 | 42663-BAA154    |      |                 |              | PIN NUMBER:           |                 | 42663-AXA154                                 |      |                 |              |                           |  |              |  |                   |  |
| PIN LENGTH: L                                                                       |                 | .555/14.10      |      |                 |              | PIN LENGTH: L         |                 | .540/13.72                                   |      |                 |              |                           |  |              |  |                   |  |
| MATING LENGTH: M                                                                    |                 | .295/7.49       |      |                 |              | MATING LENGTH: M      |                 | .295/7.49                                    |      |                 |              |                           |  |              |  |                   |  |
| GOLD POINT: G                                                                       |                 | N/A             |      |                 |              | GOLD POINT: G         |                 | N/A                                          |      |                 |              |                           |  |              |  |                   |  |
| PC TAIL LENGTH: P                                                                   |                 | .135/3.43       |      |                 |              | PC TAIL LENGTH: P     |                 | .120/3.05                                    |      |                 |              |                           |  |              |  |                   |  |
| TIN: T                                                                              |                 | OVERALL         |      |                 |              | TIN: T                |                 | OVERALL                                      |      |                 |              |                           |  |              |  |                   |  |
| CKTS:                                                                               |                 | 3-36            |      |                 |              | CKTS:                 |                 | 3-36                                         |      |                 |              |                           |  |              |  |                   |  |
| KINKS:                                                                              |                 | YES             |      |                 |              | KINKS:                |                 | NO                                           |      |                 |              |                           |  |              |  |                   |  |
| REMOVED BACKWALLS:                                                                  |                 | YES             |      |                 |              | REMOVED BACKWALLS:    |                 | YES                                          |      |                 |              |                           |  |              |  |                   |  |
| VOIDED CKTS:                                                                        |                 | 2               |      |                 |              | VOIDED CKTS:          |                 | 2                                            |      |                 |              |                           |  |              |  |                   |  |
| PACKAGING:                                                                          |                 | BULK 40873-0056 |      |                 |              | PACKAGING:            |                 | BULK 40873-0056                              |      |                 |              |                           |  |              |  |                   |  |
| CKTS                                                                                | MATERIAL NUMBER | ENG NUMBER      | CKTS | MATERIAL NUMBER | ENG NUMBER   | CKTS                  | MATERIAL NUMBER | ENG NUMBER                                   | CKTS | MATERIAL NUMBER | ENG NUMBER   |                           |  |              |  |                   |  |
| 02                                                                                  |                 |                 | 20   | 22-29-0202      | A-42227-0505 | 02                    |                 |                                              | 20   | 42227-0539      | A-42227-0539 |                           |  |              |  |                   |  |
| 03                                                                                  | 22-29-0032      | A-42227-0488    | 21   | 22-29-0212      | A-42227-0506 | 03                    | 42227-0522      | A-42227-0522                                 | 21   | 42227-0540      | A-42227-0540 |                           |  |              |  |                   |  |
| 04                                                                                  | 22-29-0042      | A-42227-0489    | 22   | 22-29-0222      | A-42227-0507 | 04                    | 42227-0523      | A-42227-0523                                 | 22   | 42227-0541      | A-42227-0541 |                           |  |              |  |                   |  |
| 05                                                                                  | 22-29-0052      | A-42227-0490    | 23   | 22-29-0232      | A-42227-0508 | 05                    | 42227-0524      | A-42227-0524                                 | 23   | 42227-0542      | A-42227-0542 |                           |  |              |  |                   |  |
| 06                                                                                  | 22-29-0062      | A-42227-0491    | 24   | 22-29-0242      | A-42227-0509 | 06                    | 42227-0525      | A-42227-0525                                 | 24   | 42227-0543      | A-42227-0543 |                           |  |              |  |                   |  |
| 07                                                                                  | 22-29-0072      | A-42227-0492    | 25   | 22-29-0252      | A-42227-0510 | 07                    | 42227-0526      | A-42227-0526                                 | 25   | 42227-0544      | A-42227-0544 |                           |  |              |  |                   |  |
| 08                                                                                  | 22-29-0082      | A-42227-0493    | 26   | 22-29-0262      | A-42227-0511 | 08                    | 42227-0527      | A-42227-0527                                 | 26   | 42227-0545      | A-42227-0545 |                           |  |              |  |                   |  |
| 09                                                                                  | 22-29-0092      | A-42227-0494    | 27   | 22-29-0272      | A-42227-0512 | 09                    | 42227-0528      | A-42227-0528                                 | 27   | 42227-0546      | A-42227-0546 |                           |  |              |  |                   |  |
| 10                                                                                  | 22-29-0102      | A-42227-0495    | 28   | 22-29-0282      | A-42227-0513 | 10                    | 42227-0529      | A-42227-0529                                 | 28   | 42227-0547      | A-42227-0547 |                           |  |              |  |                   |  |
| 11                                                                                  | 22-29-0112      | A-42227-0496    | 29   | 22-29-0292      | A-42227-0514 | 11                    | 42227-0530      | A-42227-0530                                 | 29   | 42227-0548      | A-42227-0548 |                           |  |              |  |                   |  |
| 12                                                                                  | 22-29-0122      | A-42227-0497    | 30   | 22-29-0302      | A-42227-0515 | 12                    | 42227-0531      | A-42227-0531                                 | 30   | 42227-0549      | A-42227-0549 |                           |  |              |  |                   |  |
| 13                                                                                  | 22-29-0132      | A-42227-0498    | 31   | 22-29-0312      | A-42227-0516 | 13                    | 42227-0532      | A-42227-0532                                 | 31   | 42227-0550      | A-42227-0550 |                           |  |              |  |                   |  |
| 14                                                                                  | 22-29-0142      | A-42227-0499    | 32   | 22-29-0322      | A-42227-0517 | 14                    | 42227-0533      | A-42227-0533                                 | 32   | 42227-0551      | A-42227-0551 |                           |  |              |  |                   |  |
| 15                                                                                  | 22-29-0152      | A-42227-0500    | 33   | 22-29-0332      | A-42227-0518 | 15                    | 42227-0534      | A-42227-0534                                 | 33   | 42227-0552      | A-42227-0552 |                           |  |              |  |                   |  |
| 16                                                                                  | 22-29-0162      | A-42227-0501    | 34   | 22-29-0342      | A-42227-0519 | 16                    | 42227-0535      | A-42227-0535                                 | 34   | 42227-0553      | A-42227-0553 |                           |  |              |  |                   |  |
| 17                                                                                  | 22-29-0172      | A-42227-0502    | 35   | 22-29-0352      | A-42227-0520 | 17                    | 42227-0536      | A-42227-0536                                 | 35   | 42227-0554      | A-42227-0554 |                           |  |              |  |                   |  |
| 18                                                                                  | 22-29-0182      | A-42227-0503    | 36   | 22-29-0362      | A-42227-0521 | 18                    | 42227-0537      | A-42227-0537                                 | 36   | 42227-0555      | A-42227-0555 |                           |  |              |  |                   |  |
| 19                                                                                  | 22-29-0192      | A-42227-0504    |      |                 |              | 19                    | 42227-0538      | A-42227-0538                                 |      |                 |              |                           |  |              |  |                   |  |
| REV:                                                                                |                 |                 |      |                 |              | TITLE:                |                 | .100 FRICTION LOCK<br>BREAKAWAY HEADER ASSY. |      |                 |              | SHEET No.<br><b>- 5 -</b> |  |              |  |                   |  |
| DOCUMENT NUMBER:                                                                    |                 | SD- 42227 -002  |      |                 |              | CREATED / REVISED BY: |                 | ADERR 04/22/2005                             |      | CHECKED BY:     |              | SSOUSEK 04/25/2005        |  | APPROVED BY: |  | FSMITH 04/26/2005 |  |
| <div> <div>TEMPLATE</div> <div>FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</div> </div> |                 |                 |      |                 |              |                       |                 |                                              |      |                 |              |                           |  |              |  |                   |  |

|                                                                          |                 |                          |      |                 |              |                       |                 |                                              |      |                 |              |                           |  |              |  |                   |  |
|--------------------------------------------------------------------------|-----------------|--------------------------|------|-----------------|--------------|-----------------------|-----------------|----------------------------------------------|------|-----------------|--------------|---------------------------|--|--------------|--|-------------------|--|
|                                                                          |                 |                          |      |                 |              |                       |                 |                                              |      |                 |              |                           |  |              |  |                   |  |
|                                                                          |                 |                          |      |                 |              |                       |                 |                                              |      |                 |              |                           |  |              |  |                   |  |
| A-42227-0590/0617                                                        |                 |                          |      |                 |              | A-42227-0618/0647     |                 |                                              |      |                 |              |                           |  |              |  |                   |  |
| HEADER NUMBER:                                                           |                 | 41411                    |      |                 |              | HEADER NUMBER:        |                 | 41411                                        |      |                 |              |                           |  |              |  |                   |  |
| PIN NUMBER:                                                              |                 | 42663-AXA154             |      |                 |              | PIN NUMBER:           |                 | 42663-AXB228                                 |      |                 |              |                           |  |              |  |                   |  |
| PIN LENGTH: L                                                            |                 | .540/13.72               |      |                 |              | PIN LENGTH: L         |                 | .540/13.72                                   |      |                 |              |                           |  |              |  |                   |  |
| MATING LENGTH: M                                                         |                 | .295/7.49                |      |                 |              | MATING LENGTH: M      |                 | .295/7.49                                    |      |                 |              |                           |  |              |  |                   |  |
| GOLD POINT: G                                                            |                 | N/A                      |      |                 |              | GOLD POINT: G         |                 | .180/4.57                                    |      |                 |              |                           |  |              |  |                   |  |
| PC TAIL LENGTH: P                                                        |                 | .120/3.05                |      |                 |              | PC TAIL LENGTH: P     |                 | .120/3.05                                    |      |                 |              |                           |  |              |  |                   |  |
| TIN: T                                                                   |                 | OVERALL                  |      |                 |              | TIN: T                |                 | .135/3.43                                    |      |                 |              |                           |  |              |  |                   |  |
| CKTS:                                                                    |                 | 9-36                     |      |                 |              | CKTS:                 |                 | 7-36                                         |      |                 |              |                           |  |              |  |                   |  |
| KINKS:                                                                   |                 | YES, 1,7 ONLY SEE NOTE 7 |      |                 |              | KINKS:                |                 | NO                                           |      |                 |              |                           |  |              |  |                   |  |
| REMOVED BACKWALLS:                                                       |                 | NO                       |      |                 |              | REMOVED BACKWALLS:    |                 | NO                                           |      |                 |              |                           |  |              |  |                   |  |
| VOIDED CKTS:                                                             |                 | 2, 3, 5, 6, 8, 9         |      |                 |              | VOIDED CKTS:          |                 | 7                                            |      |                 |              |                           |  |              |  |                   |  |
| PACKAGING:                                                               |                 | BULK 40873-0056          |      |                 |              | PACKAGING:            |                 | BULK 40873-0056                              |      |                 |              |                           |  |              |  |                   |  |
| CKTS                                                                     | MATERIAL NUMBER | ENG NUMBER               | CKTS | MATERIAL NUMBER | ENG NUMBER   | CKTS                  | MATERIAL NUMBER | ENG NUMBER                                   | CKTS | MATERIAL NUMBER | ENG NUMBER   |                           |  |              |  |                   |  |
| 02                                                                       |                 |                          | 20   | 22-29-0204      | A-42227-0601 | 02                    |                 |                                              | 20   | 42227-0631      | A-42227-0631 |                           |  |              |  |                   |  |
| 03                                                                       |                 |                          | 21   | 22-29-0214      | A-42227-0602 | 03                    |                 |                                              | 21   | 42227-0632      | A-42227-0632 |                           |  |              |  |                   |  |
| 04                                                                       |                 |                          | 22   | 22-29-0224      | A-42227-0603 | 04                    |                 |                                              | 22   | 42227-0633      | A-42227-0633 |                           |  |              |  |                   |  |
| 05                                                                       |                 |                          | 23   | 22-29-0234      | A-42227-0604 | 05                    |                 |                                              | 23   | 42227-0634      | A-42227-0634 |                           |  |              |  |                   |  |
| 06                                                                       |                 |                          | 24   | 22-29-0244      | A-42227-0605 | 06                    |                 |                                              | 24   | 42227-0635      | A-42227-0635 |                           |  |              |  |                   |  |
| 07                                                                       |                 |                          | 25   | 22-29-0254      | A-42227-0606 | 07                    | 42227-0618      | A-42227-0618                                 | 25   | 42227-0636      | A-42227-0636 |                           |  |              |  |                   |  |
| 08                                                                       |                 |                          | 26   | 22-29-0264      | A-42227-0607 | 08                    | 42227-0619      | A-42227-0619                                 | 26   | 42227-0637      | A-42227-0637 |                           |  |              |  |                   |  |
| 09                                                                       | 22-29-0094      | A-42227-0590             | 27   | 22-29-0274      | A-42227-0608 | 09                    | 42227-0620      | A-42227-0620                                 | 27   | 42227-0638      | A-42227-0638 |                           |  |              |  |                   |  |
| 10                                                                       | 22-29-0104      | A-42227-0591             | 28   | 22-29-0284      | A-42227-0609 | 10                    | 42227-0621      | A-42227-0621                                 | 28   | 42227-0639      | A-42227-0639 |                           |  |              |  |                   |  |
| 11                                                                       | 22-29-0114      | A-42227-0592             | 29   | 22-29-0294      | A-42227-0610 | 11                    | 42227-0622      | A-42227-0622                                 | 29   | 42227-0640      | A-42227-0640 |                           |  |              |  |                   |  |
| 12                                                                       | 22-29-0124      | A-42227-0593             | 30   | 22-29-0304      | A-42227-0611 | 12                    | 42227-0623      | A-42227-0623                                 | 30   | 42227-0641      | A-42227-0641 |                           |  |              |  |                   |  |
| 13                                                                       | 22-29-0134      | A-42227-0594             | 31   | 22-29-0314      | A-42227-0612 | 13                    | 42227-0624      | A-42227-0624                                 | 31   | 42227-0642      | A-42227-0642 |                           |  |              |  |                   |  |
| 14                                                                       | 22-29-0144      | A-42227-0595             | 32   | 22-29-0324      | A-42227-0613 | 14                    | 42227-0625      | A-42227-0625                                 | 32   | 42227-0643      | A-42227-0643 |                           |  |              |  |                   |  |
| 15                                                                       | 22-29-0154      | A-42227-0596             | 33   | 22-29-0334      | A-42227-0614 | 15                    | 42227-0626      | A-42227-0626                                 | 33   | 42227-0644      | A-42227-0644 |                           |  |              |  |                   |  |
| 16                                                                       | 22-29-0164      | A-42227-0597             | 34   | 22-29-0344      | A-42227-0615 | 16                    | 42227-0627      | A-42227-0627                                 | 34   | 42227-0645      | A-42227-0645 |                           |  |              |  |                   |  |
| 17                                                                       | 22-29-0174      | A-42227-0598             | 35   | 22-29-0354      | A-42227-0616 | 17                    | 42227-0628      | A-42227-0628                                 | 35   | 42227-0646      | A-42227-0646 |                           |  |              |  |                   |  |
| 18                                                                       | 22-29-0184      | A-42227-0599             | 36   | 22-29-0364      | A-42227-0617 | 18                    | 42227-0629      | A-42227-0629                                 | 36   | 42227-0647      | A-42227-0647 |                           |  |              |  |                   |  |
| 19                                                                       | 22-29-0194      | A-42227-0600             |      |                 |              | 19                    | 42227-0630      | A-42227-0630                                 |      |                 |              |                           |  |              |  |                   |  |
| REV:                                                                     |                 |                          |      |                 |              | TITLE:                |                 | .100 FRICTION LOCK<br>BREAKAWAY HEADER ASSY. |      |                 |              | SHEET No.<br><b>- 6 -</b> |  |              |  |                   |  |
| DOCUMENT NUMBER:                                                         |                 | SD- 42227 -002           |      |                 |              | CREATED / REVISED BY: |                 | ADERR 04/22/2005                             |      | CHECKED BY:     |              | SSOUSEK 04/25/2005        |  | APPROVED BY: |  | FSMITH 04/26/2005 |  |
| <div> <div>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</div> </div> |                 |                          |      |                 |              |                       |                 |                                              |      |                 |              |                           |  |              |  |                   |  |

|                                                                 |                 |                 |                                                  |                 |              |                                          |                 |                                              |                                          |                 |              |                           |  |
|-----------------------------------------------------------------|-----------------|-----------------|--------------------------------------------------|-----------------|--------------|------------------------------------------|-----------------|----------------------------------------------|------------------------------------------|-----------------|--------------|---------------------------|--|
| A-42227-0648/0671                                               |                 |                 |                                                  |                 |              | A-42227-0672/0706                        |                 |                                              |                                          |                 |              |                           |  |
| HEADER NUMBER:                                                  |                 | 41411           |                                                  |                 |              | HEADER NUMBER:                           |                 | 41411                                        |                                          |                 |              |                           |  |
| PIN NUMBER:                                                     |                 | 42663-AXB228    |                                                  |                 |              | PIN NUMBER:                              |                 | 42663-AXB228                                 |                                          |                 |              |                           |  |
| PIN LENGTH: L                                                   |                 | .540/13.72      |                                                  |                 |              | PIN LENGTH: L                            |                 | .540/13.72                                   |                                          |                 |              |                           |  |
| MATING LENGTH: M                                                |                 | .295/7.49       |                                                  |                 |              | MATING LENGTH: M                         |                 | .295/7.49                                    |                                          |                 |              |                           |  |
| GOLD POINT: G                                                   |                 | .180/4.57       |                                                  |                 |              | GOLD POINT: G                            |                 | .180/4.57                                    |                                          |                 |              |                           |  |
| PC TAIL LENGTH: P                                               |                 | .120/3.05       |                                                  |                 |              | PC TAIL LENGTH: P                        |                 | .120/3.05                                    |                                          |                 |              |                           |  |
| TIN: T                                                          |                 | .135/3.43       |                                                  |                 |              | TIN: T                                   |                 | .135/3.43                                    |                                          |                 |              |                           |  |
| CKTS:                                                           |                 | 13-36           |                                                  |                 |              | CKTS:                                    |                 | 2-36                                         |                                          |                 |              |                           |  |
| KINKS:                                                          |                 | NO              |                                                  |                 |              | KINKS:                                   |                 | NO                                           |                                          |                 |              |                           |  |
| REMOVED BACKWALLS:                                              |                 | NO              |                                                  |                 |              | REMOVED BACKWALLS:                       |                 | NO                                           |                                          |                 |              |                           |  |
| VOIDED CKTS:                                                    |                 | 13              |                                                  |                 |              | VOIDED CKTS:                             |                 | 2                                            |                                          |                 |              |                           |  |
| PACKAGING:                                                      |                 | BULK 40873-0056 |                                                  |                 |              | PACKAGING:                               |                 | BULK 40873-0056                              |                                          |                 |              |                           |  |
| CKTS                                                            | MATERIAL NUMBER | ENG NUMBER      | CKTS                                             | MATERIAL NUMBER | ENG NUMBER   | CKTS                                     | MATERIAL NUMBER | ENG NUMBER                                   | CKTS                                     | MATERIAL NUMBER | ENG NUMBER   |                           |  |
| 02                                                              |                 |                 | 20                                               | 42227-0655      | A-42227-0655 | 02                                       | 42227-0672      | A-42227-0672                                 | 20                                       | 42227-0690      | A-42227-0690 |                           |  |
| 03                                                              |                 |                 | 21                                               | 42227-0656      | A-42227-0656 | 03                                       | 42227-0673      | A-42227-0673                                 | 21                                       | 42227-0691      | A-42227-0691 |                           |  |
| 04                                                              |                 |                 | 22                                               | 42227-0657      | A-42227-0657 | 04                                       | 42227-0674      | A-42227-0674                                 | 22                                       | 42227-0692      | A-42227-0692 |                           |  |
| 05                                                              |                 |                 | 23                                               | 42227-0658      | A-42227-0658 | 05                                       | 42227-0675      | A-42227-0675                                 | 23                                       | 42227-0693      | A-42227-0693 |                           |  |
| 06                                                              |                 |                 | 24                                               | 42227-0659      | A-42227-0659 | 06                                       | 42227-0676      | A-42227-0676                                 | 24                                       | 42227-0694      | A-42227-0694 |                           |  |
| 07                                                              |                 |                 | 25                                               | 42227-0660      | A-42227-0660 | 07                                       | 42227-0677      | A-42227-0677                                 | 25                                       | 42227-0695      | A-42227-0695 |                           |  |
| 08                                                              |                 |                 | 26                                               | 42227-0661      | A-42227-0661 | 08                                       | 42227-0678      | A-42227-0678                                 | 26                                       | 42227-0696      | A-42227-0696 |                           |  |
| 09                                                              |                 |                 | 27                                               | 42227-0662      | A-42227-0662 | 09                                       | 42227-0679      | A-42227-0679                                 | 27                                       | 42227-0697      | A-42227-0697 |                           |  |
| 10                                                              |                 |                 | 28                                               | 42227-0663      | A-42227-0663 | 10                                       | 42227-0680      | A-42227-0680                                 | 28                                       | 42227-0698      | A-42227-0698 |                           |  |
| 11                                                              |                 |                 | 29                                               | 42227-0664      | A-42227-0664 | 11                                       | 42227-0681      | A-42227-0681                                 | 29                                       | 42227-0699      | A-42227-0699 |                           |  |
| 12                                                              |                 |                 | 30                                               | 42227-0665      | A-42227-0665 | 12                                       | 42227-0682      | A-42227-0682                                 | 30                                       | 42227-0700      | A-42227-0700 |                           |  |
| 13                                                              | 42227-0648      | A-42227-0648    | 31                                               | 42227-0666      | A-42227-0666 | 13                                       | 42227-0683      | A-42227-0683                                 | 31                                       | 42227-0701      | A-42227-0701 |                           |  |
| 14                                                              | 42227-0649      | A-42227-0649    | 32                                               | 42227-0667      | A-42227-0667 | 14                                       | 42227-0684      | A-42227-0684                                 | 32                                       | 42227-0702      | A-42227-0702 |                           |  |
| 15                                                              | 42227-0650      | A-42227-0650    | 33                                               | 42227-0668      | A-42227-0668 | 15                                       | 42227-0685      | A-42227-0685                                 | 33                                       | 42227-0703      | A-42227-0703 |                           |  |
| 16                                                              | 42227-0651      | A-42227-0651    | 34                                               | 42227-0669      | A-42227-0669 | 16                                       | 42227-0686      | A-42227-0686                                 | 34                                       | 42227-0704      | A-42227-0704 |                           |  |
| 17                                                              | 42227-0652      | A-42227-0652    | 35                                               | 42227-0670      | A-42227-0670 | 17                                       | 42227-0687      | A-42227-0687                                 | 35                                       | 42227-0705      | A-42227-0705 |                           |  |
| 18                                                              | 42227-0653      | A-42227-0653    | 36                                               | 42227-0671      | A-42227-0671 | 18                                       | 42227-0688      | A-42227-0688                                 | 36                                       | 42227-0706      | A-42227-0706 |                           |  |
| 19                                                              | 42227-0654      | A-42227-0654    |                                                  |                 |              | 19                                       | 42227-0689      | A-42227-0689                                 |                                          |                 |              |                           |  |
| REV:                                                            |                 |                 |                                                  |                 |              | TITLE:                                   |                 | .100 FRICTION LOCK<br>BREAKAWAY HEADER ASSY. |                                          |                 |              | SHEET No.<br><b>- 7 -</b> |  |
| DOCUMENT NUMBER:<br><b>SD- 42227 -002</b>                       |                 |                 | CREATED / REVISED BY:<br><b>ADERR 04/22/2005</b> |                 |              | CHECKED BY:<br><b>SSOUSEK 04/25/2005</b> |                 |                                              | APPROVED BY:<br><b>FSMITH 04/26/2005</b> |                 |              |                           |  |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |                 |                                                  |                 |              |                                          |                 |                                              |                                          |                 |              |                           |  |

|                                                                          |                 |                                              |      |                       |              |  |                    |  |           |                   |  |
|--------------------------------------------------------------------------|-----------------|----------------------------------------------|------|-----------------------|--------------|--|--------------------|--|-----------|-------------------|--|
|                                                                          |                 |                                              |      |                       |              |  |                    |  |           |                   |  |
| A-42227-0707/0741                                                        |                 |                                              |      |                       |              |  |                    |  |           |                   |  |
| HEADER NUMBER:                                                           |                 | 41411                                        |      |                       |              |  |                    |  |           |                   |  |
| PIN NUMBER:                                                              |                 | 42663-AXA154                                 |      |                       |              |  |                    |  |           |                   |  |
| PIN LENGTH: L                                                            |                 | .540/13.72                                   |      |                       |              |  |                    |  |           |                   |  |
| MATING LENGTH: M                                                         |                 | .280/7.11                                    |      |                       |              |  |                    |  |           |                   |  |
| GOLD POINT: G                                                            |                 | N/A                                          |      |                       |              |  |                    |  |           |                   |  |
| PC TAIL LENGTH: P                                                        |                 | .135/3.43                                    |      |                       |              |  |                    |  |           |                   |  |
| TIN: T                                                                   |                 | OVERALL                                      |      |                       |              |  |                    |  |           |                   |  |
| CKTS:                                                                    |                 | 2-36                                         |      |                       |              |  |                    |  |           |                   |  |
| KINKS:                                                                   |                 | NO                                           |      |                       |              |  |                    |  |           |                   |  |
| REMOVED BACKWALLS:                                                       |                 | NO                                           |      |                       |              |  |                    |  |           |                   |  |
| VOIDED CKTS:                                                             |                 | NONE                                         |      |                       |              |  |                    |  |           |                   |  |
| PACKAGING:                                                               |                 | BULK 40873-0056                              |      |                       |              |  |                    |  |           |                   |  |
| CKTS                                                                     | MATERIAL NUMBER | ENG NUMBER                                   | CKTS | MATERIAL NUMBER       | ENG NUMBER   |  |                    |  |           |                   |  |
| 02                                                                       | 42227-0707      | A-42227-0707                                 | 20   | 42227-0725            | A-42227-0725 |  |                    |  |           |                   |  |
| 03                                                                       | 42227-0708      | A-42227-0708                                 | 21   | 42227-0726            | A-42227-0726 |  |                    |  |           |                   |  |
| 04                                                                       | 42227-0709      | A-42227-0709                                 | 22   | 42227-0727            | A-42227-0727 |  |                    |  |           |                   |  |
| 05                                                                       | 42227-0710      | A-42227-0710                                 | 23   | 42227-0728            | A-42227-0728 |  |                    |  |           |                   |  |
| 06                                                                       | 42227-0711      | A-42227-0711                                 | 24   | 42227-0729            | A-42227-0729 |  |                    |  |           |                   |  |
| 07                                                                       | 42227-0712      | A-42227-0712                                 | 25   | 42227-0730            | A-42227-0730 |  |                    |  |           |                   |  |
| 08                                                                       | 42227-0713      | A-42227-0713                                 | 26   | 42227-0731            | A-42227-0731 |  |                    |  |           |                   |  |
| 09                                                                       | 42227-0714      | A-42227-0714                                 | 27   | 42227-0732            | A-42227-0732 |  |                    |  |           |                   |  |
| 10                                                                       | 42227-0714      | A-42227-0715                                 | 28   | 42227-0733            | A-42227-0733 |  |                    |  |           |                   |  |
| 11                                                                       | 42227-0716      | A-42227-0716                                 | 29   | 42227-0734            | A-42227-0734 |  |                    |  |           |                   |  |
| 12                                                                       | 42227-0717      | A-42227-0717                                 | 30   | 42227-0735            | A-42227-0735 |  |                    |  |           |                   |  |
| 13                                                                       | 42227-0718      | A-42227-0718                                 | 31   | 42227-0736            | A-42227-0736 |  |                    |  |           |                   |  |
| 14                                                                       | 42227-0719      | A-42227-0719                                 | 32   | 42227-0737            | A-42227-0737 |  |                    |  |           |                   |  |
| 15                                                                       | 42227-0720      | A-42227-0720                                 | 33   | 42227-0738            | A-42227-0738 |  |                    |  |           |                   |  |
| 16                                                                       | 42227-0721      | A-42227-0721                                 | 34   | 42227-0739            | A-42227-0739 |  |                    |  |           |                   |  |
| 17                                                                       | 42227-0722      | A-42227-0722                                 | 35   | 42227-0740            | A-42227-0740 |  |                    |  |           |                   |  |
| 18                                                                       | 42227-0723      | A-42227-0723                                 | 36   | 42227-0741            | A-42227-0741 |  |                    |  |           |                   |  |
| 19                                                                       | 42227-0724      | A-42227-0724                                 |      |                       |              |  |                    |  |           |                   |  |
|                                                                          |                 |                                              |      |                       |              |  |                    |  |           |                   |  |
| REV:                                                                     |                 | TITLE:                                       |      |                       |              |  |                    |  | SHEET No. |                   |  |
| K3                                                                       |                 | .100 FRICTION LOCK<br>BREAKAWAY HEADER ASSY. |      |                       |              |  |                    |  | - 8 -     |                   |  |
| DOCUMENT NUMBER:                                                         |                 |                                              |      | CREATED / REVISED BY: |              |  | CHECKED BY:        |  |           | APPROVED BY:      |  |
| SD- 42227 -002                                                           |                 |                                              |      | ADERR 04/22/2005      |              |  | SSOUSEK 04/25/2005 |  |           | FSMITH 04/26/2005 |  |
| <div> <div>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</div> </div> |                 |                                              |      |                       |              |  |                    |  |           |                   |  |

| A-42227-0742/0775  |                 |                 |      |                 |              |
|--------------------|-----------------|-----------------|------|-----------------|--------------|
| HEADER NUMBER:     |                 | 41411           |      |                 |              |
| PIN NUMBER:        |                 | 42663-AXA154    |      |                 |              |
| PIN LENGTH: L      |                 | .540/13.72      |      |                 |              |
| MATING LENGTH: M   |                 | .280/7.11       |      |                 |              |
| GOLD POINT: G      |                 | N/A             |      |                 |              |
| PC TAIL LENGTH: P  |                 | .135/3.43       |      |                 |              |
| TIN: T             |                 | OVERALL         |      |                 |              |
| CKTS:              |                 | 3-36            |      |                 |              |
| KINKS:             |                 | NO              |      |                 |              |
| REMOVED BACKWALLS: |                 | NO              |      |                 |              |
| VOIDED CKTS:       |                 | 2               |      |                 |              |
| PACKAGING:         |                 | BULK 40873-0056 |      |                 |              |
| CKTS               | MATERIAL NUMBER | ENG NUMBER      | CKTS | MATERIAL NUMBER | ENG NUMBER   |
| 02                 |                 |                 | 20   | 42227-0759      | A-42227-0759 |
| 03                 | 42227-0742      | A-42227-0742    | 21   | 42227-0760      | A-42227-0760 |
| 04                 | 42227-0743      | A-42227-0743    | 22   | 42227-0761      | A-42227-0761 |
| 05                 | 42227-0744      | A-42227-0744    | 23   | 42227-0762      | A-42227-0762 |
| 06                 | 42227-0745      | A-42227-0745    | 24   | 42227-0763      | A-42227-0763 |
| 07                 | 42227-0746      | A-42227-0746    | 25   | 42227-0764      | A-42227-0764 |
| 08                 | 42227-0747      | A-42227-0747    | 26   | 42227-0765      | A-42227-0765 |
| 09                 | 42227-0748      | A-42227-0748    | 27   | 42227-0766      | A-42227-0766 |
| 10                 | 42227-0749      | A-42227-0749    | 28   | 42227-0767      | A-42227-0767 |
| 11                 | 42227-0750      | A-42227-0750    | 29   | 42227-0768      | A-42227-0768 |
| 12                 | 42227-0751      | A-42227-0751    | 30   | 42227-0769      | A-42227-0769 |
| 13                 | 42227-0752      | A-42227-0752    | 31   | 42227-0770      | A-42227-0770 |
| 14                 | 42227-0753      | A-42227-0753    | 32   | 42227-0771      | A-42227-0771 |
| 15                 | 42227-0754      | A-42227-0754    | 33   | 42227-0772      | A-42227-0772 |
| 16                 | 42227-0755      | A-42227-0755    | 34   | 42227-0773      | A-42227-0773 |
| 17                 | 42227-0756      | A-42227-0756    | 35   | 42227-0774      | A-42227-0774 |
| 18                 | 42227-0757      | A-42227-0757    | 36   | 42227-0775      | A-42227-0775 |
| 19                 | 42227-0758      | A-42227-0758    |      |                 |              |

|                                                                 |                    |               |                 |                    |                         |                                                      |                    |                           |                 |                          |               |
|-----------------------------------------------------------------|--------------------|---------------|-----------------|--------------------|-------------------------|------------------------------------------------------|--------------------|---------------------------|-----------------|--------------------------|---------------|
|                                                                 |                    |               |                 |                    |                         |                                                      |                    |                           |                 |                          |               |
| A-42227-0776/0792                                               |                    |               |                 |                    |                         | A-42227-0818/0848                                    |                    |                           |                 |                          |               |
| HEADER NUMBER:                                                  |                    |               | 41411           |                    |                         | HEADER NUMBER:                                       |                    |                           | 41411           |                          |               |
| PIN NUMBER:                                                     |                    |               | 42663-AXA154    |                    |                         | PIN NUMBER:                                          |                    |                           | 42663-AXA154    |                          |               |
| PIN LENGTH: L                                                   |                    |               | .540/13.72      |                    |                         | PIN LENGTH: L                                        |                    |                           | .540/13.72      |                          |               |
| MATING LENGTH: M                                                |                    |               | .280/7.11       |                    |                         | MATING LENGTH: M                                     |                    |                           | .295/7.49       |                          |               |
| GOLD POINT: G                                                   |                    |               | N/A             |                    |                         | GOLD POINT: G                                        |                    |                           | N/A             |                          |               |
| PC TAIL LENGTH: P                                               |                    |               | .135/3.43       |                    |                         | PC TAIL LENGTH: P                                    |                    |                           | .120/3.05       |                          |               |
| TIN: T                                                          |                    |               | OVERALL         |                    |                         | TIN: T                                               |                    |                           | OVERALL         |                          |               |
| CKTS:                                                           |                    |               | 20-36           |                    |                         | CKTS:                                                |                    |                           | 6-36            |                          |               |
| KINKS:                                                          |                    |               | NO              |                    |                         | KINKS:                                               |                    |                           | NO              |                          |               |
| REMOVED BACKWALLS:                                              |                    |               | NO              |                    |                         | REMOVED BACKWALLS:                                   |                    |                           | NO              |                          |               |
| VOIDED CKTS:                                                    |                    |               | 20              |                    |                         | VOIDED CKTS:                                         |                    |                           | 3, 6            |                          |               |
| PACKAGING:                                                      |                    |               | BULK 40873-0056 |                    |                         | PACKAGING:                                           |                    |                           | BULK 40873-0056 |                          |               |
| CKTS                                                            | MATERIAL<br>NUMBER | ENG<br>NUMBER | CKTS            | MATERIAL<br>NUMBER | ENG<br>NUMBER           | CKTS                                                 | MATERIAL<br>NUMBER | ENG<br>NUMBER             | CKTS            | MATERIAL<br>NUMBER       | ENG<br>NUMBER |
| 02                                                              |                    |               | 20              | 42227-0776         | A-42227-0776            | 02                                                   |                    |                           | 20              | 42227-0832               | A-42227-0832  |
| 03                                                              |                    |               | 21              | 42227-0777         | A-42227-0777            | 03                                                   |                    |                           | 21              | 42227-0833               | A-42227-0833  |
| 04                                                              |                    |               | 22              | 42227-0778         | A-42227-0778            | 04                                                   |                    |                           | 22              | 42227-0834               | A-42227-0834  |
| 05                                                              |                    |               | 23              | 42227-0779         | A-42227-0779            | 05                                                   |                    |                           | 23              | 42227-0835               | A-42227-0835  |
| 06                                                              |                    |               | 24              | 42227-0780         | A-42227-0780            | 06                                                   | 42227-0818         | A-42227-0818              | 24              | 42227-0836               | A-42227-0836  |
| 07                                                              |                    |               | 25              | 42227-0781         | A-42227-0781            | 07                                                   | 42227-0819         | A-42227-0819              | 25              | 42227-0837               | A-42227-0837  |
| 08                                                              |                    |               | 26              | 42227-0782         | A-42227-0782            | 08                                                   | 68352-0001         | A-42227-0820              | 26              | 42227-0838               | A-42227-0838  |
| 09                                                              |                    |               | 27              | 42227-0783         | A-42227-0783            | 09                                                   | 42227-0821         | A-42227-0821              | 27              | 42227-0839               | A-42227-0839  |
| 10                                                              |                    |               | 28              | 42227-0784         | A-42227-0784            | 10                                                   | 42227-0822         | A-42227-0822              | 28              | 42227-0840               | A-42227-0840  |
| 11                                                              |                    |               | 29              | 42227-0785         | A-42227-0785            | 11                                                   | 42227-0823         | A-42227-0823              | 29              | 42227-0841               | A-42227-0841  |
| 12                                                              |                    |               | 30              | 42227-0786         | A-42227-0786            | 12                                                   | 42227-0824         | A-42227-0824              | 30              | 42227-0842               | A-42227-0842  |
| 13                                                              |                    |               | 31              | 42227-0787         | A-42227-0787            | 13                                                   | 42227-0825         | A-42227-0825              | 31              | 42227-0843               | A-42227-0843  |
| 14                                                              |                    |               | 32              | 42227-0788         | A-42227-0788            | 14                                                   | 42227-0826         | A-42227-0826              | 32              | 42227-0844               | A-42227-0844  |
| 15                                                              |                    |               | 33              | 42227-0789         | A-42227-0789            | 15                                                   | 42227-0827         | A-42227-0827              | 33              | 42227-0845               | A-42227-0845  |
| 16                                                              |                    |               | 34              | 42227-0790         | A-42227-0790            | 16                                                   | 42227-0828         | A-42227-0828              | 34              | 42227-0846               | A-42227-0846  |
| 17                                                              |                    |               | 35              | 42227-0791         | A-42227-0791            | 17                                                   | 42227-0829         | A-42227-0829              | 35              | 42227-0847               | A-42227-0847  |
| 18                                                              |                    |               | 36              | 42227-0792         | A-42227-0792            | 18                                                   | 42227-0830         | A-42227-0830              | 36              | 42227-0848               | A-42227-0848  |
| 19                                                              |                    |               |                 |                    |                         | 19                                                   | 42227-0831         | A-42227-0831              |                 |                          |               |
|                                                                 |                    |               |                 |                    |                         |                                                      |                    |                           |                 |                          |               |
| REV:                                                            |                    |               |                 |                    |                         | TITLE:                                               |                    |                           |                 |                          | SHEET No.     |
| <b>K3</b>                                                       |                    |               |                 |                    |                         | <b>.100 FRICTION LOCK<br/>BREAKAWAY HEADER ASSY.</b> |                    |                           |                 |                          | <b>- 9 -</b>  |
| DOCUMENT NUMBER:                                                |                    |               |                 |                    | CREATED / REVISED BY:   |                                                      |                    | CHECKED BY:               |                 | APPROVED BY:             |               |
| <b>SD- 42227 -002</b>                                           |                    |               |                 |                    | <b>ADERR 04/22/2005</b> |                                                      |                    | <b>SSOUSEK 04/25/2005</b> |                 | <b>FSMITH 04/26/2005</b> |               |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                    |               |                 |                    |                         |                                                      |                    |                           |                 |                          |               |

|                                                  |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |
|--------------------------------------------------|-----------------|--------------|-----------------|-------------------------|--------------|----------------------------------------------|-----------------|--------------------------|-----------------|-----------------|--------------|
|                                                  |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |
| A-42227-0873/0900                                |                 |              |                 |                         |              | A-42227-0934/0967                            |                 |                          |                 |                 |              |
| HEADER NUMBER:                                   |                 |              | 41411           |                         |              | HEADER NUMBER:                               |                 |                          | 41411           |                 |              |
| PIN NUMBER:                                      |                 |              | 42663-AXA154    |                         |              | PIN NUMBER:                                  |                 |                          | 42663-AXA154    |                 |              |
| PIN LENGTH: L                                    |                 |              | .540/13.72      |                         |              | PIN LENGTH: L                                |                 |                          | .540/13.72      |                 |              |
| MATING LENGTH: M                                 |                 |              | .295/7.49       |                         |              | MATING LENGTH: M                             |                 |                          | .280/7.11       |                 |              |
| GOLD POINT: G                                    |                 |              | N/A             |                         |              | GOLD POINT: G                                |                 |                          | N/A             |                 |              |
| PC TAIL LENGTH: P                                |                 |              | .120/3.05       |                         |              | PC TAIL LENGTH: P                            |                 |                          | .135/3.43       |                 |              |
| TIN: T                                           |                 |              | OVERALL         |                         |              | TIN: T                                       |                 |                          | OVERALL         |                 |              |
| CKTS:                                            |                 |              | 9-36            |                         |              | CKTS:                                        |                 |                          | 3-36            |                 |              |
| KINKS:                                           |                 |              | NO              |                         |              | KINKS:                                       |                 |                          | NO              |                 |              |
| REMOVED BACKWALLS:                               |                 |              | YES             |                         |              | REMOVED BACKWALLS:                           |                 |                          | YES             |                 |              |
| VOIDED CKTS:                                     |                 |              | 9               |                         |              | VOIDED CKTS:                                 |                 |                          | NONE            |                 |              |
| PACKAGING:                                       |                 |              | BULK 40873-0056 |                         |              | PACKAGING:                                   |                 |                          | BULK 40873-0056 |                 |              |
| CKTS                                             | MATERIAL NUMBER | ENG NUMBER   | CKTS            | MATERIAL NUMBER         | ENG NUMBER   | CKTS                                         | MATERIAL NUMBER | ENG NUMBER               | CKTS            | MATERIAL NUMBER | ENG NUMBER   |
| 02                                               |                 |              | 20              | 42227-0884              | A-42227-0884 | 02                                           |                 |                          | 20              | 42227-0951      | A-42227-0951 |
| 03                                               |                 |              | 21              | 42227-0885              | A-42227-0885 | 03                                           | 42227-0934      | A-42227-0934             | 21              | 42227-0952      | A-42227-0952 |
| 04                                               |                 |              | 22              | 42227-0886              | A-42227-0886 | 04                                           | 42227-0935      | A-42227-0935             | 22              | 42227-0953      | A-42227-0953 |
| 05                                               |                 |              | 23              | 42227-0887              | A-42227-0887 | 05                                           | 42227-0936      | A-42227-0936             | 23              | 42227-0954      | A-42227-0954 |
| 06                                               |                 |              | 24              | 42227-0888              | A-42227-0888 | 06                                           | 42227-0937      | A-42227-0937             | 24              | 42227-0955      | A-42227-0955 |
| 07                                               |                 |              | 25              | 42227-0889              | A-42227-0889 | 07                                           | 42227-0938      | A-42227-0938             | 25              | 42227-0956      | A-42227-0956 |
| 08                                               |                 |              | 26              | 42227-0890              | A-42227-0890 | 08                                           | 42227-0939      | A-42227-0939             | 26              | 42227-0957      | A-42227-0957 |
| 09                                               | 42227-0873      | A-42227-0873 | 27              | 42227-0891              | A-42227-0891 | 09                                           | 42227-0940      | A-42227-0940             | 27              | 42227-0958      | A-42227-0958 |
| 10                                               | 42227-0874      | A-42227-0874 | 28              | 42227-0892              | A-42227-0892 | 10                                           | 42227-0941      | A-42227-0941             | 28              | 42227-0959      | A-42227-0959 |
| 11                                               | 42227-0875      | A-42227-0875 | 29              | 42227-0893              | A-42227-0893 | 11                                           | 42227-0942      | A-42227-0942             | 29              | 42227-0960      | A-42227-0960 |
| 12                                               | 42227-0876      | A-42227-0876 | 30              | 42227-0894              | A-42227-0894 | 12                                           | 42227-0943      | A-42227-0943             | 30              | 42227-0961      | A-42227-0961 |
| 13                                               | 42227-0877      | A-42227-0877 | 31              | 42227-0895              | A-42227-0895 | 13                                           | 42227-0944      | A-42227-0944             | 31              | 42227-0962      | A-42227-0962 |
| 14                                               | 42227-0878      | A-42227-0878 | 32              | 42227-0896              | A-42227-0896 | 14                                           | 42227-0945      | A-42227-0945             | 32              | 42227-0963      | A-42227-0963 |
| 15                                               | 42227-0879      | A-42227-0879 | 33              | 42227-0897              | A-42227-0897 | 15                                           | 42227-0946      | A-42227-0946             | 33              | 42227-0964      | A-42227-0964 |
| 16                                               | 42227-0880      | A-42227-0880 | 34              | 42227-0898              | A-42227-0898 | 16                                           | 42227-0947      | A-42227-0947             | 34              | 42227-0965      | A-42227-0965 |
| 17                                               | 42227-0881      | A-42227-0881 | 35              | 42227-0899              | A-42227-0899 | 17                                           | 42227-0948      | A-42227-0948             | 35              | 42227-0966      | A-42227-0966 |
| 18                                               | 42227-0882      | A-42227-0882 | 36              | 42227-0900              | A-42227-0900 | 18                                           | 42227-0949      | A-42227-0949             | 36              | 42227-0967      | A-42227-0967 |
| 19                                               | 42227-0883      | A-42227-0883 |                 |                         |              | 19                                           | 42227-0950      | A-42227-0950             |                 |                 |              |
|                                                  |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |
| REV:                                             |                 |              |                 |                         |              | TITLE:                                       |                 |                          |                 | SHEET No.       |              |
| <b>K3</b>                                        |                 |              |                 |                         |              | .100 FRICTION LOCK<br>BREAKAWAY HEADER ASSY. |                 |                          |                 | <b>- 10 -</b>   |              |
| DOCUMENT NUMBER:                                 |                 |              |                 | CREATED / REVISED BY:   |              | CHECKED BY:                                  |                 | APPROVED BY:             |                 |                 |              |
| <b>SD- 42227 -002</b>                            |                 |              |                 | <b>ADERR 04/22/2005</b> |              | <b>SSOUSEK 04/25/2005</b>                    |                 | <b>FSMITH 04/26/2005</b> |                 |                 |              |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |

|                                                                 |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |
|-----------------------------------------------------------------|-----------------|--------------|-----------------|-------------------------|--------------|----------------------------------------------|-----------------|--------------------------|-----------------|-----------------|--------------|
|                                                                 |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |
| A-42227-0968/1001                                               |                 |              |                 |                         |              | A-42227-1002/1036                            |                 |                          |                 |                 |              |
| HEADER NUMBER:                                                  |                 |              | 41411           |                         |              | HEADER NUMBER:                               |                 |                          | 41411           |                 |              |
| PIN NUMBER:                                                     |                 |              | 42663-CCA154    |                         |              | PIN NUMBER:                                  |                 |                          | 42663-BKB228    |                 |              |
| PIN LENGTH: L                                                   |                 |              | .670/17.02      |                         |              | PIN LENGTH: L                                |                 |                          | .600/15.24      |                 |              |
| MATING LENGTH: M                                                |                 |              | .295/7.49       |                         |              | MATING LENGTH: M                             |                 |                          | .295/7.49       |                 |              |
| GOLD POINT: G                                                   |                 |              | N/A             |                         |              | GOLD POINT: G                                |                 |                          | .180/4.57       |                 |              |
| PC TAIL LENGTH: P                                               |                 |              | .250/6.35       |                         |              | PC TAIL LENGTH: P                            |                 |                          | .180/4.57       |                 |              |
| TIN: T                                                          |                 |              | OVERALL         |                         |              | TIN: T                                       |                 |                          | .135/3.43       |                 |              |
| CKTS:                                                           |                 |              | 3-36            |                         |              | CKTS:                                        |                 |                          | 2-36            |                 |              |
| KINKS:                                                          |                 |              | NO              |                         |              | KINKS:                                       |                 |                          | NO              |                 |              |
| REMOVED BACKWALLS:                                              |                 |              | YES             |                         |              | REMOVED BACKWALLS:                           |                 |                          | NO              |                 |              |
| VOIDED CKTS:                                                    |                 |              | NONE            |                         |              | VOIDED CKTS:                                 |                 |                          | NONE            |                 |              |
| PACKAGING:                                                      |                 |              | BULK 40873-0056 |                         |              | PACKAGING:                                   |                 |                          | BULK 40873-0056 |                 |              |
| CKTS                                                            | MATERIAL NUMBER | ENG NUMBER   | CKTS            | MATERIAL NUMBER         | ENG NUMBER   | CKTS                                         | MATERIAL NUMBER | ENG NUMBER               | CKTS            | MATERIAL NUMBER | ENG NUMBER   |
| 02                                                              |                 |              | 20              | 42227-0985              | A-42227-0985 | 02                                           | 42227-1002      | A-42227-1002             | 20              | 42227-1020      | A-42227-1020 |
| 03                                                              | 42227-0968      | A-42227-0968 | 21              | 42227-0986              | A-42227-0986 | 03                                           | 42227-1003      | A-42227-1003             | 21              | 42227-1021      | A-42227-1021 |
| 04                                                              | 42227-0969      | A-42227-0969 | 22              | 42227-0987              | A-42227-0987 | 04                                           | 42227-1004      | A-42227-1004             | 22              | 42227-1022      | A-42227-1022 |
| 05                                                              | 42227-0970      | A-42227-0970 | 23              | 42227-0988              | A-42227-0988 | 05                                           | 42227-1005      | A-42227-1005             | 23              | 42227-1023      | A-42227-1023 |
| 06                                                              | 42227-0971      | A-42227-0971 | 24              | 42227-0989              | A-42227-0989 | 06                                           | 42227-1006      | A-42227-1006             | 24              | 42227-1024      | A-42227-1024 |
| 07                                                              | 42227-0972      | A-42227-0972 | 25              | 42227-0990              | A-42227-0990 | 07                                           | 42227-1007      | A-42227-1007             | 25              | 42227-1025      | A-42227-1025 |
| 08                                                              | 42227-0973      | A-42227-0973 | 26              | 42227-0991              | A-42227-0991 | 08                                           | 42227-1008      | A-42227-1008             | 26              | 42227-1026      | A-42227-1026 |
| 09                                                              | 42227-0974      | A-42227-0974 | 27              | 42227-0992              | A-42227-0992 | 09                                           | 42227-1009      | A-42227-1009             | 27              | 42227-1027      | A-42227-1027 |
| 10                                                              | 42227-0975      | A-42227-0975 | 28              | 42227-0993              | A-42227-0993 | 10                                           | 42227-1010      | A-42227-1010             | 28              | 42227-1028      | A-42227-1028 |
| 11                                                              | 42227-0976      | A-42227-0976 | 29              | 42227-0994              | A-42227-0994 | 11                                           | 42227-1011      | A-42227-1011             | 29              | 42227-1029      | A-42227-1029 |
| 12                                                              | 42227-0977      | A-42227-0977 | 30              | 42227-0995              | A-42227-0995 | 12                                           | 42227-1012      | A-42227-1012             | 30              | 42227-1030      | A-42227-1030 |
| 13                                                              | 42227-0978      | A-42227-0978 | 31              | 42227-0996              | A-42227-0996 | 13                                           | 42227-1013      | A-42227-1013             | 31              | 42227-1031      | A-42227-1031 |
| 14                                                              | 42227-0979      | A-42227-0979 | 32              | 42227-0997              | A-42227-0997 | 14                                           | 42227-1014      | A-42227-1014             | 32              | 42227-1032      | A-42227-1032 |
| 15                                                              | 42227-0980      | A-42227-0980 | 33              | 42227-0998              | A-42227-0998 | 15                                           | 42227-1015      | A-42227-1015             | 33              | 42227-1033      | A-42227-1033 |
| 16                                                              | 42227-0981      | A-42227-0981 | 34              | 42227-0999              | A-42227-0999 | 16                                           | 42227-1016      | A-42227-1016             | 34              | 42227-1034      | A-42227-1034 |
| 17                                                              | 42227-0982      | A-42227-0982 | 35              | 42227-1000              | A-42227-1000 | 17                                           | 42227-1017      | A-42227-1017             | 35              | 42227-1035      | A-42227-1035 |
| 18                                                              | 42227-0983      | A-42227-0983 | 36              | 42227-1001              | A-42227-1001 | 18                                           | 42227-1018      | A-42227-1018             | 36              | 42227-1036      | A-42227-1036 |
| 19                                                              | 42227-0984      | A-42227-0984 |                 |                         |              | 19                                           | 42227-1019      | A-42227-1019             |                 |                 |              |
|                                                                 |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |
| REV:                                                            |                 |              |                 |                         |              | TITLE:                                       |                 |                          |                 | SHEET No.       |              |
| <b>K3</b>                                                       |                 |              |                 |                         |              | .100 FRICTION LOCK<br>BREAKAWAY HEADER ASSY. |                 |                          |                 | <b>- 11 -</b>   |              |
| DOCUMENT NUMBER:                                                |                 |              |                 | CREATED / REVISED BY:   |              | CHECKED BY:                                  |                 | APPROVED BY:             |                 |                 |              |
| <b>SD- 42227 -002</b>                                           |                 |              |                 | <b>ADERR 04/22/2005</b> |              | <b>SSOUSEK 04/25/2005</b>                    |                 | <b>FSMITH 04/26/2005</b> |                 |                 |              |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |              |

|                                                                 |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |            |
|-----------------------------------------------------------------|-----------------|--------------|-----------------|-------------------------|--------------|----------------------------------------------|-----------------|--------------------------|-----------------|-----------------|------------|
|                                                                 |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |            |
| A-42227-1037/1071                                               |                 |              |                 |                         |              | A-42227-1072/1106                            |                 |                          |                 |                 |            |
| HEADER NUMBER:                                                  |                 |              | 41411           |                         |              | HEADER NUMBER:                               |                 |                          | 41411           |                 |            |
| PIN NUMBER:                                                     |                 |              | 42663-BKB228    |                         |              | PIN NUMBER:                                  |                 |                          | 42663-AXB208    |                 |            |
| PIN LENGTH: L                                                   |                 |              | .600/15.24      |                         |              | PIN LENGTH: L                                |                 |                          | .540 / 13.72    |                 |            |
| MATING LENGTH: M                                                |                 |              | .295/7.49       |                         |              | MATING LENGTH: M                             |                 |                          | .280 / 7.11     |                 |            |
| GOLD POINT: G                                                   |                 |              | .180/4.57       |                         |              | GOLD POINT: G                                |                 |                          | .140 / 3.56     |                 |            |
| PC TAIL LENGTH: P                                               |                 |              | .180/4.57       |                         |              | PC TAIL LENGTH: P                            |                 |                          | .135 / 3.43     |                 |            |
| TIN: T                                                          |                 |              | .135/3.43       |                         |              | TIN: T                                       |                 |                          | .135 / 3.43     |                 |            |
| CKTS:                                                           |                 |              | 2-36            |                         |              | CKTS:                                        |                 |                          | 3-36            |                 |            |
| KINKS:                                                          |                 |              | NO              |                         |              | KINKS:                                       |                 |                          | NO              |                 |            |
| REMOVED BACKWALLS:                                              |                 |              | YES             |                         |              | REMOVED BACKWALLS:                           |                 |                          | YES             |                 |            |
| VOIDED CKTS:                                                    |                 |              | NONE            |                         |              | VOIDED CKTS:                                 |                 |                          | 3               |                 |            |
| PACKAGING:                                                      |                 |              | BULK 40873-0056 |                         |              | PACKAGING:                                   |                 |                          | BULK 40873-0056 |                 |            |
| CKTS                                                            | MATERIAL NUMBER | ENG NUMBER   | CKTS            | MATERIAL NUMBER         | ENG NUMBER   | CKTS                                         | MATERIAL NUMBER | ENG NUMBER               | CKTS            | MATERIAL NUMBER | ENG NUMBER |
| 02                                                              | 42227-1037      | A-42227-1037 | 20              | 42227-1055              | A-42227-1055 | 02                                           |                 |                          | 20              |                 |            |
| 03                                                              | 42227-1038      | A-42227-1038 | 21              | 42227-1056              | A-42227-1056 | 03                                           |                 |                          | 21              |                 |            |
| 04                                                              | 42227-1039      | A-42227-1039 | 22              | 42227-1057              | A-42227-1057 | 04                                           |                 |                          | 22              |                 |            |
| 05                                                              | 42227-1040      | A-42227-1040 | 23              | 42227-1058              | A-42227-1058 | 05                                           |                 |                          | 23              |                 |            |
| 06                                                              | 42227-1041      | A-42227-1041 | 24              | 42227-1059              | A-42227-1059 | 06                                           |                 |                          | 24              |                 |            |
| 07                                                              | 42227-1042      | A-42227-1042 | 25              | 42227-1060              | A-42227-1060 | 07                                           |                 |                          | 25              |                 |            |
| 08                                                              | 42227-1043      | A-42227-1043 | 26              | 42227-1061              | A-42227-1061 | 08                                           |                 |                          | 26              |                 |            |
| 09                                                              | 42227-1044      | A-42227-1044 | 27              | 42227-1062              | A-42227-1062 | 09                                           |                 |                          | 27              |                 |            |
| 10                                                              | 42227-1045      | A-42227-1045 | 28              | 42227-1063              | A-42227-1063 | 10                                           |                 |                          | 28              |                 |            |
| 11                                                              | 42227-1046      | A-42227-1046 | 29              | 42227-1064              | A-42227-1064 | 11                                           |                 |                          | 29              |                 |            |
| 12                                                              | 42227-1047      | A-42227-1047 | 30              | 42227-1065              | A-42227-1065 | 12                                           |                 |                          | 30              |                 |            |
| 13                                                              | 42227-1048      | A-42227-1048 | 31              | 42227-1066              | A-42227-1066 | 13                                           |                 |                          | 31              |                 |            |
| 14                                                              | 42227-1049      | A-42227-1049 | 32              | 42227-1067              | A-42227-1067 | 14                                           |                 |                          | 32              |                 |            |
| 15                                                              | 42227-1050      | A-42227-1050 | 33              | 42227-1068              | A-42227-1068 | 15                                           |                 |                          | 33              |                 |            |
| 16                                                              | 42227-1051      | A-42227-1051 | 34              | 42227-1069              | A-42227-1069 | 16                                           |                 |                          | 34              |                 |            |
| 17                                                              | 42227-1052      | A-42227-1052 | 35              | 42227-1070              | A-42227-1070 | 17                                           |                 |                          | 35              |                 |            |
| 18                                                              | 42227-1053      | A-42227-1053 | 36              | 42227-1071              | A-42227-1071 | 18                                           | 42227-1088      | A-42227-1088             | 36              |                 |            |
| 19                                                              | 42227-1054      | A-42227-1054 |                 |                         |              | 19                                           |                 |                          |                 |                 |            |
|                                                                 |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |            |
| REV:                                                            |                 |              |                 |                         |              | TITLE:                                       |                 |                          |                 | SHEET No.       |            |
| <b>K3</b>                                                       |                 |              |                 |                         |              | .100 FRICTION LOCK<br>BREAKAWAY HEADER ASSY. |                 |                          |                 | <b>- 12 -</b>   |            |
| DOCUMENT NUMBER:                                                |                 |              |                 | CREATED / REVISED BY:   |              | CHECKED BY:                                  |                 | APPROVED BY:             |                 |                 |            |
| <b>SD- 42227 -002</b>                                           |                 |              |                 | <b>ADERR 04/22/2005</b> |              | <b>SSOUSEK 04/25/2005</b>                    |                 | <b>FSMITH 04/26/2005</b> |                 |                 |            |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |              |                 |                         |              |                                              |                 |                          |                 |                 |            |