

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

REV.  
A

AS39029™/71

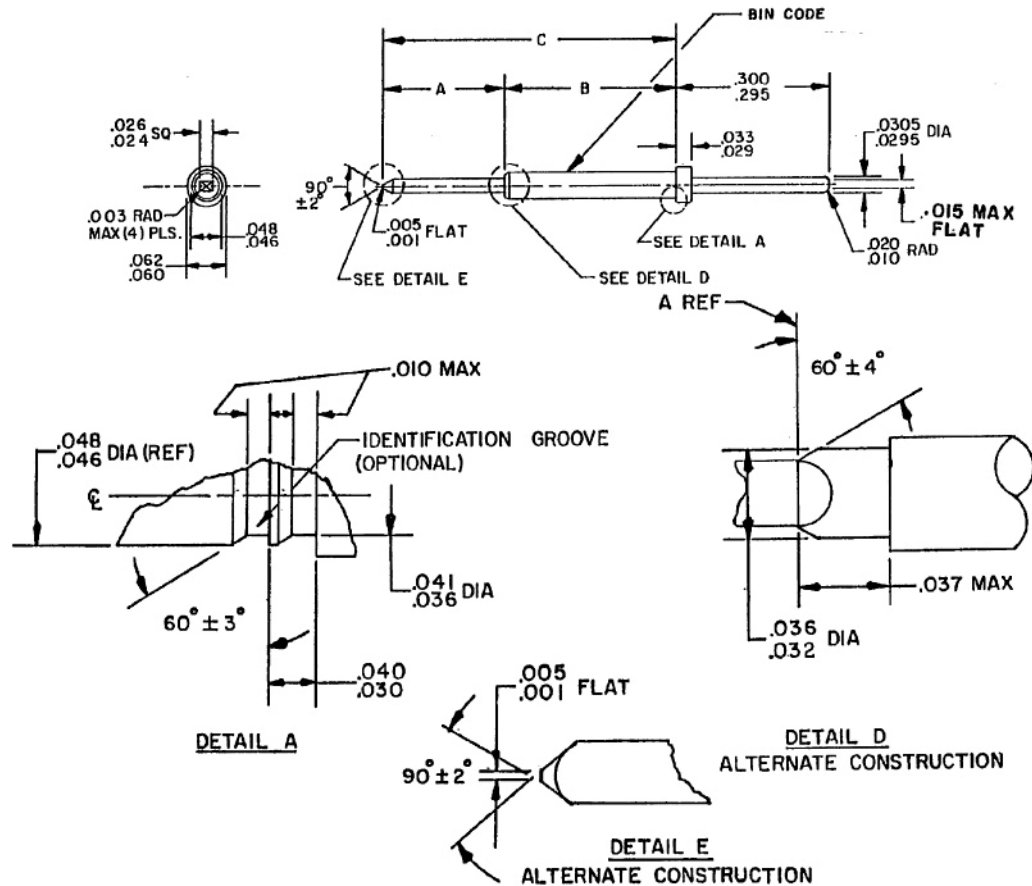
FEDERAL SUPPLY CLASS  
5935

## RATIONALE

AS39029/71A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

## NOTICE

THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS39029.

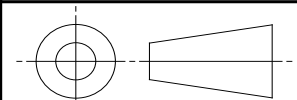


| BIN CODE | A                          | B                          | C                            |
|----------|----------------------------|----------------------------|------------------------------|
| 390      | .205 (5.21)<br>.200 (5.08) | .344 (8.74)<br>.338 (8.59) | .538 (13.67)<br>REF          |
| 391      | .306 (7.77)<br>.302 (7.67) | .237 (6.02)<br>.231 (5.87) | .538 (13.67)<br>REF          |
| 392      | .355 (9.02)<br>.340 (8.64) | .340 (8.64)<br>REF         | .685 (17.40)<br>.675 (17.15) |

FIGURE 1 - CONFIGURATION AND DIMENSIONS

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS39029/71A>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029



## AEROSPACE STANDARD

(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, REMOVABLE,  
SOLDERLESS WRAPPOST TERMINATION (FOR MIL-DTL-38999  
SERIES I, II, III, AND IV, MIL-DTL-24308, MIL-DTL-83733,  
AND MIL-DTL-55302/69 CONNECTORS)

AS39029™/71  
SHEET 1 OF 3

REV.  
A

Documents  
Document Sharing Hub

Copyright © 2020 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)  
Fax: 724-776-0790

Tel: +1 724-776-4970 (outside USA)  
Email: CustomerService@sae.org

SAE WEB ADDRESS: <http://www.sae.org>

TABLE 1 - DESIGN CHARACTERISTICS

| BIN CODE | COLOR BANDS     |                 |                 | MATING END SIZE | TYPE | CLASS |
|----------|-----------------|-----------------|-----------------|-----------------|------|-------|
|          | 1 <sup>ST</sup> | 2 <sup>ND</sup> | 3 <sup>RD</sup> |                 |      |       |
| 390      | ORANGE          | WHITE           | BLACK           | 22              | A    | B     |
| 391      | ORANGE          | WHITE           | BROWN           | 22              |      |       |
| 392      | ORANGE          | WHITE           | RED             | 22              |      |       |

TABLE 2 - TOOLS

| BIN CODE      | INSTALLING TOOL                    | REMOVAL TOOL                       |
|---------------|------------------------------------|------------------------------------|
| 390, 391, 392 | M81969/1-04 (GREEN)<br>M81969/8-01 | M81969/1-04 (WHITE)<br>M81969/8-02 |

TABLE 3 - PART NUMBERS

| BIN CODE | PART NUMBER   | SUPERSEDED PART NUMBER |
|----------|---------------|------------------------|
| 390      | M39029/71-390 | M39029/71-1            |
| 391      | M39029/71-391 | M39029/71-2            |
| 392      | M39029/71-392 | M39029/71-3            |

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS39029.

1. DESIGN:

CONTACTS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. DIMENSIONS ARE IN INCHES. DIMENSIONS SHOWN APPLY AFTER PLATING.

2. TOOLS:

TOOLS REQUIRED FOR THE INSTALLING/REMOVAL FROM THE CONNECTOR SHALL BE IN ACCORDANCE WITH TABLE 2.

3. PART NUMBERS:

CONTACT PART NUMBERS SHALL BE IN ACCORDANCE WITH TABLE 3. SUPERSEDED PART NUMBERS ARE AS SPECIFIED.

4. MATERIALS:

MATERIALS SHALL BE IN ACCORDANCE WITH AS39029.

5. MECHANICAL:

WIRE WRAPPING: WIRE WRAPPING SHALL BE CLASS A AND WRAPPED IN ACCORDANCE WITH MIL-STD-1130.

CAUTION: MAINTAIN LIGHT TENSION ON THE WIRE AT THE START OF THE WRAP UNTIL ONE COMPLETE TURN HAS BEEN MADE.

EDGE BURRS: WRAPPOST EDGE BURRS SHALL BE .0015 INCH (0.14 MM), MAXIMUM.

6. ELECTRICAL:

ELECTRICAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH AS39029.

|                                                                                     |                                                                                                                                                                                                  |                                    |                                                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------|
|  | <b>AEROSPACE STANDARD</b>                                                                                                                                                                        | <b>AS39029™/71</b><br>SHEET 2 OF 3 | <b>REV. A</b><br> |
|                                                                                     | (R) CONTACTS, ELECTRICAL CONNECTOR, PIN, REMOVABLE, SOLDERLESS WRAPPOST TERMINATION (FOR MIL-DTL-38999 SERIES I, II, III, AND IV, MIL-DTL-24308, MIL-DTL-83733, AND MIL-DTL-55302/69 CONNECTORS) |                                    |                                                                                                        |

