

REV. C		FEDERAL SUPPLY CLASS 5935
AS85049™/19		<p>RATIONALE</p> <p>REVISION IS REQUIRED TO IMPROVE DRAWINGS, UPDATE RESTRICTIONS, REPLACE PART NUMBER IMAGE WITH WORD FORMAT TEXT, AND UPDATE DOCUMENT FORMAT TO LATEST SAE GUIDELINES.</p>
<p>SAE Executive Standards Committee 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."</p> <p>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.</p>		
<p>SEE DESIGN REQ. FOR INTERFACE DIMENSIONS</p>		
<p>FIGURE 1 - ACCESSORY CONFIGURATION AND DIMENSIONS</p>		
<p>CUSTODIAN: AE-8/AE-8C1</p>		<p>PROCUREMENT SPECIFICATION: AS85049</p>
	<p>THIRD ANGLE PROJECTION</p>	
<p>AEROSPACE STANDARD</p>		<p>AS85049™/19</p>
<p>(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, NONENVIRONMENTAL, STRAIGHT, RFI/EMI, CATEGORY 3B (FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)</p>		<p>REV. C</p>
<p>Copyright © 2021 SAE International</p>		
<p>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.</p>		
<p>TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (Inside USA and Canada) Fax: 724-776-0790</p>		
<p>Tel: +1 724-776-4970 (outside USA) Email: CustomerService@sae.org</p>		
<p>SAE WEB ADDRESS: http://www.sae.org</p>		
<p>ISSUED 2000-04 REVISED 2016-09 REAFFIRMED 2021-04</p>		

TABLE 1 - CONNECTOR SHELL SIZE AND CLAMP SIZE

SHELL SIZE	MIN. CLAMP SIZE	MAX. CLAMP SIZE	A MAX. DIA. OF COUPLING RING
9	01	02	.75 (19.1)
11	01	03	.85 (21.6)
13	02	04	1.00 (25.4)
15	02	05	1.10 (27.9)
17	02	06	1.25 (31.8)
19	03	07	1.40 (35.6)
21	03	08	1.50 (38.1)
23	03	09	1.65 (41.9)
25	04	10	1.75 (44.5)

TABLE 2 - CLAMP SIZE AND DIMENSIONS

CLAMP SIZE	CABLE RANGE		Y DIM. MAX.
	MIN.	MAX.	
01	.062 (1.57)	.125 (3.18)	.80 (20.3)
02	.125 (3.18)	.250 (6.35)	1.00 (25.4)
03	.250 (6.35)	.375 (9.53)	1.10 (27.9)
04	.312 (7.92)	.500 (12.70)	1.20 (30.5)
05	.437 (11.10)	.625 (15.88)	1.25 (31.8)
06	.562 (14.27)	.750 (19.05)	1.40 (35.6)
07	.687 (17.45)	.875 (22.23)	1.50 (38.1)
08	.812 (20.62)	1.000 (25.40)	1.65 (41.9)
09	.937 (23.80)	1.125 (28.58)	1.75 (44.5)
10	1.062 (26.97)	1.250 (31.75)	1.90 (48.3)

TABLE 3 - ACCESSORY BODY LENGTH

CODE	LENGTH IN INCHES ±.032 (0.81)
STANDARD	1.50 (38.1)
A	2.50 (63.5)
B	3.50 (88.9)
C	4.50 (114.3)

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS85049.

1. DESIGN AND CONSTRUCTION:

ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLES 1 THROUGH 3. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. UNLESS OTHERWISE SPECIFIED TOLERANCES SHALL BE: . XX = $\pm .03$ AND . XXX = $\pm .015$ ANGULAR TOLERANCES X = ± 2 . METRIC EQUIVALENTS ARE IN PARENTHESES, ARE GIVEN FOR GENERAL INFORMATION ONLY, AND ARE BASED UPON 1 INCH = 25.4 MM.

INTERFACE DIMENSIONS SHALL CONFORM TO AS85049 FIGURE 3 OR 3A.

THE COUPLING NUT SHALL BE CAPTIVATED TO AND FREE TO ROTATE ON THE ADAPTER BODY.

STANDARD MINIMUM LENGTH IS 1.5 INCH $\pm .032$ INCH (38.1 MM ± 0.81 MM) SEE TABLE 3 FOR LONGER LENGTHS.

SEE TABLE 1 FOR MINIMUM AND MAXIMUM CLAMP SIZE AVAILABLE WITH EACH ACCESSORY SHELL SIZE. SEE TABLE 2 FOR CABLE RANGE FOR EACH CLAMP SIZE.

2. MATERIAL AND FINISH: AS SPECIFIED IN TABLE 4 AND AS LISTED BELOW.

ADAPTER BODY AND COUPLING NUT: ALUMINUM ALLOY IN ACCORDANCE WITH AS85049.

CLAMP SCREWS AND LOCKWASHERS - CORROSION RESISTING STEEL, PASSIVATE.

	AEROSPACE STANDARD	AS85049™/19 SHEET 2 OF 4	REV. C
	(R) CONNECTOR ACCESSORIES, ELECTRICAL, BACKSHELL, NONENVIRONMENTAL, STRAIGHT, RFI/EMI, CATEGORY 3B (FOR MIL-DTL-38999 SERIES III AND IV CONNECTORS)		