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**REV.
C**

AS90347™

FEDERAL SUPPLY CLASS
6150

RATIONALE

AS90347 IS BEING STABILIZED BECAUSE THE PROCESSES/PRODUCT IS CONSIDERED MATURE AND THE COMMITTEE DOES NOT ANTICIPATE FUTURE TECHNICAL CHANGES. STABILIZATION DOES NOT IMPLY THE PROCESS OR PRODUCT IS UNACCEPTABLE FOR APPLICATIONS FOR WHICH IT IS DESIGNED. ANY TECHNICAL CHANGES NOTED BY A SUPPLIER OR USER WHICH RESULTS IN A PRODUCT OR REQUIREMENT CHANGE WILL BE ADDRESSED BY A NEW REVISION. THE COMPONENTS ARE USED FOR REPLACEMENT ONLY. QUALIFIED SUPPLIERS ARE STILL MAINTAINED.

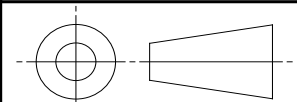
STABILIZED NOTICE

THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY SAE AE-8A ELEC WIRING AND FIBER OPTIC INTERCONNECT SYS INSTALL COMMITTEE AND WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8A

PROCUREMENT SPECIFICATION: AS7974



AEROSPACE STANDARD

CABLE ASSEMBLY, EXTERNAL
ELECTRIC POWER, AIRCRAFT
28 VOLT DC, OPERATING POWER

AS90347™

**REV.
C**

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7974.

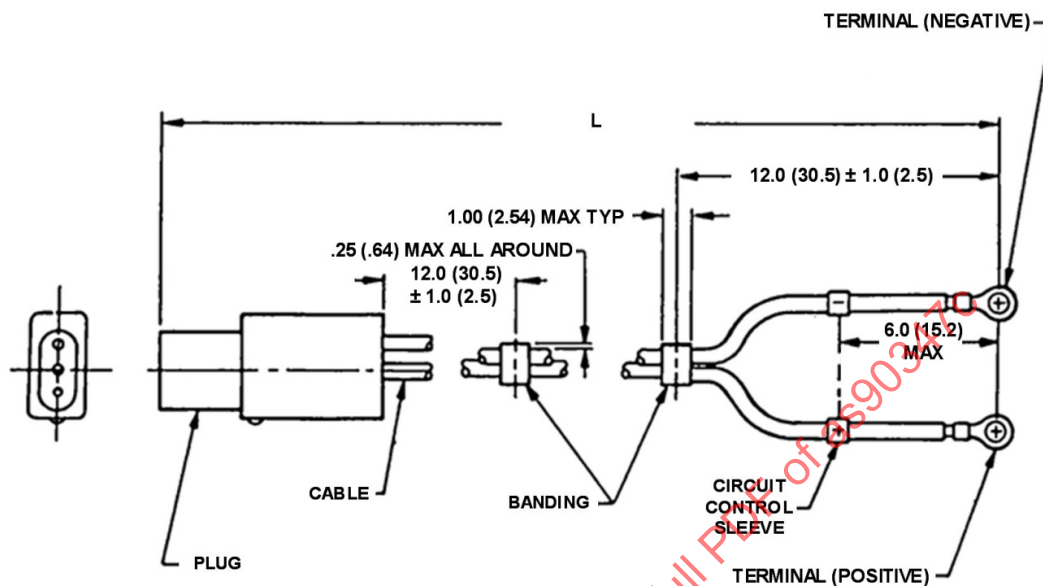


FIGURE 1 - AS90347 CABLE ASSEMBLY

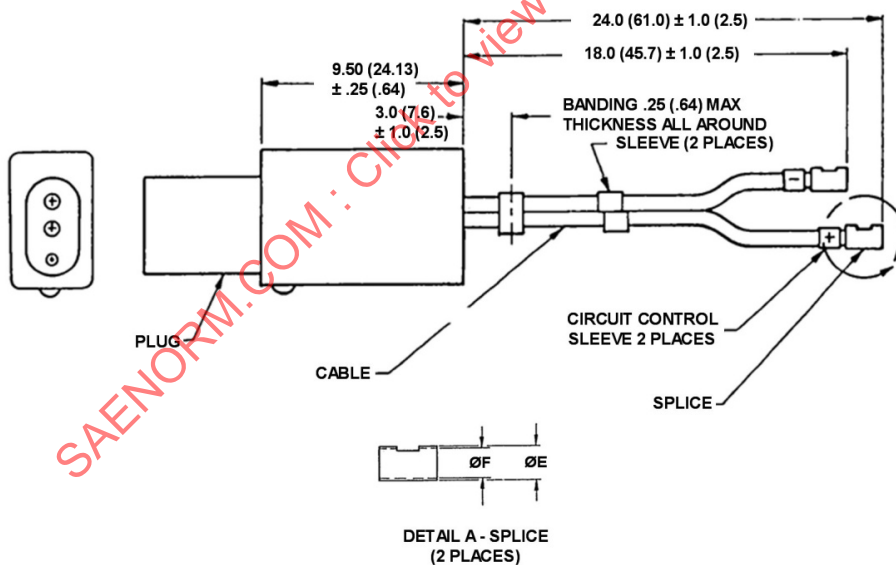


FIGURE 2 - AS90347 MOLDED PLUG SPLICE ASSEMBLY DETAILS

	AEROSPACE STANDARD	AS90347™ SHEET 1 OF 4	REV. C
	CABLE ASSEMBLY, EXTERNAL ELECTRIC POWER, AIRCRAFT 28 VOLT DC, OPERATING POWER		

TABLE 1 - AS90347 CABLE ASSEMBLY DETAILS

PART NO. MS90347-	CABLE SIZE (A, B, C, N)	TERMINAL (MS20659-)		L ± .5 FEET	L ± 0.15 M
		POSITIVE	NEGATIVE		
7	0	118	135	20	6.10
8				30	9.14
9				40	12.19
10				60	18.29
11				80	24.36
12				100	30.48
13	00	120	136	20	6.10
14				30	9.14
15				40	12.19
16				60	18.29
17				80	24.36
18				100	30.48
19	0000	123	124	20	6.10
20				30	9.14
21				40	12.19
22				60	18.29
23				80	24.36
24				100	30.48

TABLE 2 - AS90347 MOLDED PLUG SPLICE ASSEMBLY DETAILS

PART NO. MS90347-	CABLE & WIRE SIZE	SPLICE CRIMP BARREL (SEE DETAIL A)		AS23053 SLEEVE Ø X L (NOM)
		ØE	ØF	
25	0	.578 (1.47)	.458 (1.16)	1.00 X 5
		.558 (1.42)	.438 (1.11)	
26	00	.640 (1.63)	.520 (1.32)	1.25 X 5
		.620 (1.57)	.500 (1.27)	
27	0000	.784 (1.99)	.645 (1.64)	1.25 X 5
		.760 (1.93)	.622 (1.58)	

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7974.

1. CONFIGURATION:

DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE ±.25 (0.64 CM). METRIC DIMENSIONS ARE BASED ON 2.54 CM/IN. ENGLISH UNITS TAKE PRECEDENCE OVER METRIC UNITS IN THE EVENT OF A CONFLICT.

CABLE AND MOLDED PLUG SPLICE ASSEMBLY CONFIGURATION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FIGURE 1, FIGURE 2, TABLE 1, TABLE 2, AND AS7974.

PLUG SHALL MATE WITH THE AS35061 RECEPTACLE CONNECTOR AND MEET ALL AS7974 PERFORMANCE REQUIREMENTS.

SPLICE CRIMP BARRELS SHALL BE CRIMP TYPE.

TERMINALS SHALL BE IN ACCORDANCE WITH AS20659 (SEE TABLE 1).

PLUG AND SOCKET CONTACT CONFIGURATION SHALL BE IN ACCORDANCE WITH AS25488. THE PLUG, SPECIFIED BY THE PART IDENTIFICATION NUMBER (PIN), SHALL BE MOLDED OR ATTACHED TO THE CABLES (SEE APPLICATION NOTES).

CABLE AND CONTROL LEAD WIRE SHALL BE IN ACCORDANCE WITH AS5756/2.

CIRCUIT CONTROL IDENTIFICATION SLEEVE (SEE FIGURES 1 AND 2) SHALL BE IN ACCORDANCE WITH AS7974.

THE MOLDED PLUG SPLICE ASSEMBLY, AFTER ATTACHMENT TO THE REPAIRED CABLE, SHALL BE COVERED WITH AN AS23053 SLEEVE WITH ADHESIVE ON THE INSIDE DIAMETER. A SLEEVE OF SUFFICIENT LENGTH TO COVER EACH SPLICE SHALL BE PROVIDED FOR EACH MOLDED PLUG SPLICE ASSEMBLY, WHEN ORDERED BY THE PIN (SEE IDENTIFICATION NUMBERS).

	AEROSPACE STANDARD	AS90347™ SHEET 2 OF 4	REV. C
	CABLE ASSEMBLY, EXTERNAL ELECTRIC POWER, AIRCRAFT 28 VOLT DC, OPERATING POWER		

2. MATERIALS:

PLUG MATERIAL SHALL BE IN ACCORDANCE WITH AS25488.

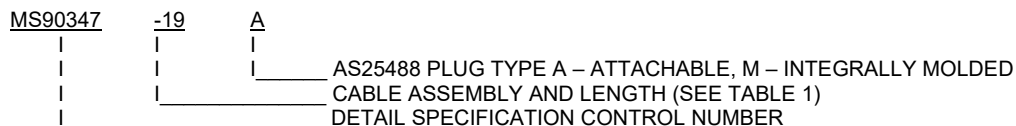
BAND MATERIAL SHALL BE IN ACCORDANCE WITH AS7974.

CABLE AND LEAD WIRE MATERIALS SHALL BE IN ACCORDANCE WITH AS5756.

SPLICE AND FINISH MATERIALS SHALL BE THE SAME AS SOCKET CONTACT MATERIALS SPECIFIED IN AS7974.

3. PART IDENTIFICATION NUMBER (PIN):

AS90347 CABLE ASSEMBLY PIN SHALL BE AS FOLLOWS (SEE APPLICATION NOTES):



AS90347 MOLDED PLUG SPLICE ASSEMBLY PIN AND COMPONENT IDENTIFICATION:



4. IDENTIFICATION MARKING REQUIREMENT AND LOCATION:

THE MARKING REQUIREMENTS AND LOCATIONS SHALL BE IN ACCORDANCE WITH AS7974.

IDENTIFICATION MARKING ON THE MOLDED PLUG SHALL BE IN THE SAME LOCATION AS THE ATTACHABLE PLUG IDENTIFICATION MARKING (REFER TO AS7974). PLUG MARKING SHALL INCLUDE THE PIN AND SUPPLIER IDENTIFICATION OR CAGE CODE.

MOLD OR STAMP WIRE SIZE SHALL BE ON THE SPLICE CRIMP BARREL (TABLE 2).

5. CRIMP TOOLS:

TERMINAL AND SPLICE SHALL BE CRIMPED WITH TOOLS SPECIFIED IN TABLE 3.

TABLE 3 - CRIMP TOOLS

TERMINAL OR SPLICE SIZE	CRIMP TOOL ^{3/}	WIRE CONDUCTOR CRIMP DIE
0	MS25441-1 (1/, 2/) M5259/3-01	MS90485-01
00		MS90485-02
0000		MS90485-04
0	M5259/4-01 (2/) M5259/5-01	M5259/7-014
00		M5259/7-015
0000		N/A

^{1/} REFER TO AS5259/1 FOR TOOL DETAILS AND AS5259/7 FOR DIE DETAILS.

^{2/} TOOL REQUIRES AS5259/2 HYDRAULIC HOSE AND PUMP.

^{3/} AN EQUIVALENT MS25441 AND MS90485 DIE APPROVED BY THE QUALIFYING ACTIVITY MAY BE USED ONLY FOR THE INITIAL CABLE ASSEMBLY PURCHASES FOR THE UNITED STATES MILITARY.

6. PLUG REPLACEMENT INSTALLATION INSTRUCTIONS:

PLUG REPLACEMENT INSTALLATION INSTRUCTIONS SHALL BE PROVIDED WITH EACH MOLDED PLUG SPLICE ASSEMBLY.