

ORDERING INFORMATION

E 842 - 816 - XX XX - X XX X

Date code _____
Nil - No date code
E - Date code printed 

No. of contact _____

Body & pin configuration _____
(Refer to Table III)

Lock & Eject (L&E) and mounting stud options _____

- 0 - no L&E, no stud
1 - short L&E, no stud
2 - short L&E, short stud
3 - short L&E, long stud
4 - long L&E, no stud
5 - long L&E, short stud
6 - long L&E, long stud
F - long L&E, M2.5 stud

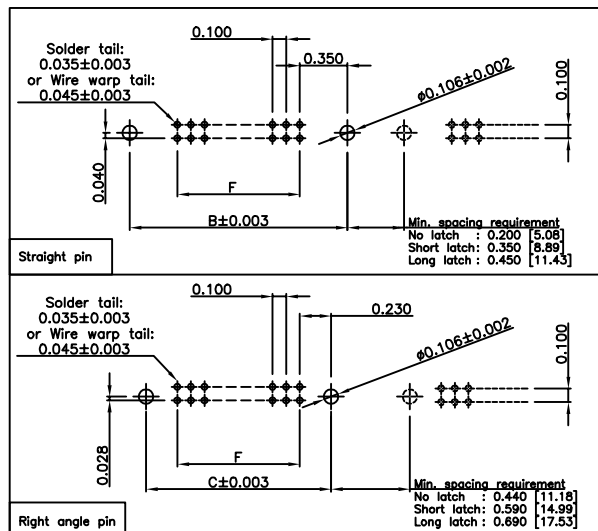
Nil - standard
S - standard with polarizing
key slot for size 10 

Plating
AA - gold flash duplex
19 - 15u" gold plated duplex
35 - 30u" gold plated duplex

Table III

Standard product - four side grey	Non-standard product - three side grey (specific quantity required)	K
30 - straight solder tail, for 0.062" [1.6 mm] PCB	20 - obsolete	0.109 ± 0.007 ± 0.020 [2.61 ± 0.34] coined tail
31 - straight solder tail, for 0.125" [3.2 mm] PCB	21 - obsolete	0.171 ± 0.008 ± 0.022 [4.14 ± 0.36] coined tail
32 - right angle solder tail, for 0.062" [1.6 mm] PCB	22 - obsolete	0.109 ± 0.007 ± 0.020 [2.61 ± 0.34] coined tail
33 - right angle solder tail, for 0.125" [3.2 mm] PCB	23 - obsolete	0.171 ± 0.008 ± 0.022 [4.14 ± 0.36] coined tail
37 - straight wire wrap tail	27 - obsolete	0.61 ± 0.015 [15.49 ± 0.38] square tail
39 - right angle wire wrap tail	29 - obsolete	0.61 ± 0.015 [15.49 ± 0.38] square tail

Recommended PCB layout



REVISIONS				
SYM	ECN	DESCRIPTION	DATE	APPROVED
		SEE SHEET 1		

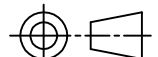
Notes:

- Connectors purchased under this drawing will mate with MIL-C-83503/7B socket connector with strain relief or without strain relief and Amphenol's 812 connector.
- This assembly is designed to meet requirements of MIL-C-83503.
- The polarizing key slot on this end does not exist on size 10 and 14.
- Prefix "E" only applies to the four-sided version & polarizing key slot is available for all size including size 10.
- Suffix "S" only applies to the size 10 since the polarizing key slot is absent from the standard size 10.
- This connector is both UL and CSA approved.
- Refer to Amphenol S-816-001 for product specification.
- MATERIAL SHOULD BE FULFILLED AMPHENOL SPEC#SSN001.

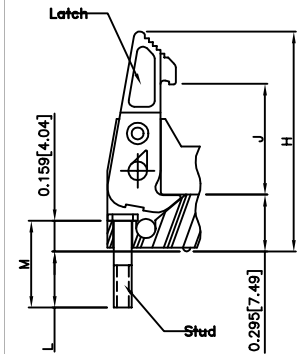
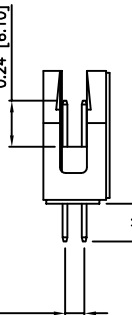
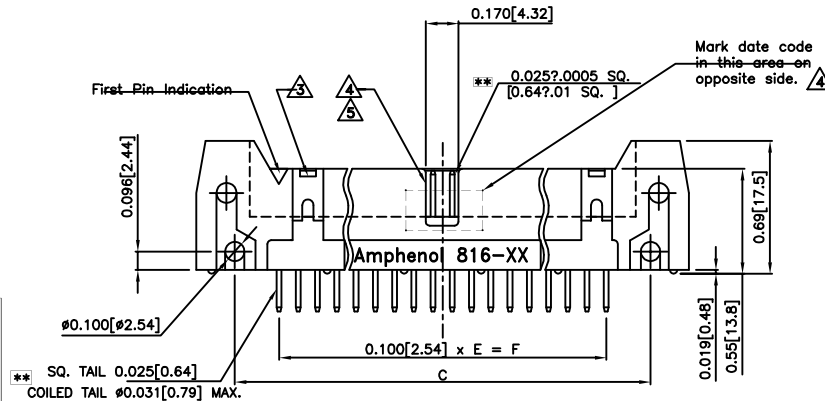
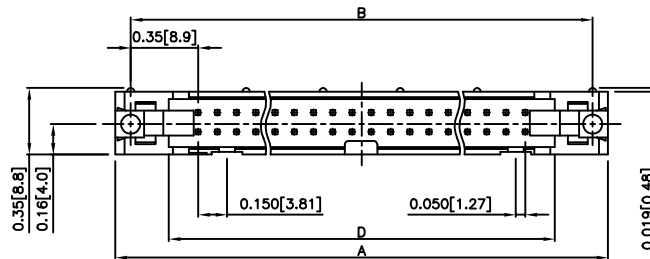
Table IV

Size	A	B	C	D	E	F
10	1.26 [32.07]	1.10 [27.94]	0.860 [21.84]	0.708 [17.98]	0.400 [10.16]	4
14	1.46 [37.08]	1.30 [33.02]	1.060 [26.92]	0.908 [23.06]	0.600 [15.24]	6
16	1.56 [39.62]	1.40 [35.56]	1.160 [29.46]	1.008 [25.60]	0.700 [17.78]	7
20	1.76 [44.70]	1.60 [40.64]	1.360 [34.54]	1.208 [30.68]	0.900 [22.86]	9
26	2.06 [52.32]	1.90 [48.26]	1.660 [42.16]	1.508 [38.30]	1.200 [30.40]	12
30	2.26 [57.40]	2.10 [53.34]	1.860 [47.24]	1.708 [43.38]	1.400 [35.56]	14
34	2.46 [62.48]	2.30 [58.42]	2.060 [52.32]	1.908 [48.46]	1.600 [40.64]	16
40	2.76 [70.10]	2.60 [66.04]	2.360 [59.94]	2.208 [56.08]	1.900 [48.26]	19
50	3.26 [82.80]	3.10 [78.74]	2.860 [72.64]	2.708 [68.78]	2.400 [60.96]	24
60	3.76 [95.50]	3.60 [91.44]	3.360 [85.34]	3.208 [81.48]	2.900 [73.66]	29
64	3.96 [100.58]	3.80 [96.52]	3.560 [90.42]	3.408 [86.60]	3.100 [78.74]	31

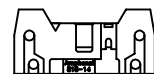
Customer Drawing

UNLESS OTHERWISE SPECIFIED TOLERANCES U.S. METRIC		APPROVAL	DATE	Amphenol	
.X +/-	.020 0.51	DRAWN ALEX.LEE	07/18/05		
.XX +/-	.010 0.25	CHECKED TSUI	07/18/05		
.XXX +/-	.005 0.13	CHECKED		TITLE	
FRACTIONS +/-	2.5" 2.5"			816 Protected Header	
ANGLES +/-	2.5" 2.5"			SIZE DRAWING NO.	
FOR MATERIALS AND FINISHES SEE NOTES		DRAWING FILE : DRAWING_816_CB16.DWG		A3 C816-XXXX-XXX	
REMOVE SHARP EDGES		ANGLE OF PROJECTION		REV.	
DIMENSIONS				T	
U.S. INCHES				SCALE NONE	
METRIC MM				SHEET 2 OF 2	

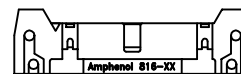
This document is the property of Amphenol Corporation and is delivered on the express condition that it is not to be disclosed, reproduced or used, in whole or in part, for manufacture or sale by anyone other than Amphenol Corporation without the prior consent, and that no right is granted to disclose or to use any information in this document.



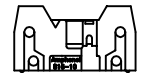
Optional latch and stud



Size 14
P/N: X842-816-14XX-XXX



Size 34 or above
P/N: X842-816-XXXX-XXX



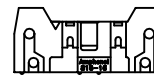
Size 10 with CPK slot
P/N: 842-816-10XX-XXXS, or
P/N: E842-816-10XX-XXX with date code



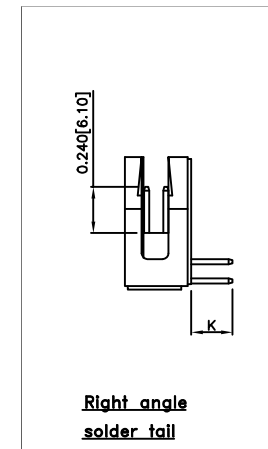
Size 20
P/N: X842-816-20XX-XXX



Size 10 without CPK slot
P/N: 842-816-10XX-XXX



Size 16
P/N: X842-816-16XX-XXX



Right angle
solder tail

Table I

Latch & Eject	J	H
Short: for use with non strain relief socket	0.425 [10.80]	1.015 [25.78]
Long for use with strain relief socket	0.575 [14.61]	1.135 [28.83]

Table II

Stud	L	M
Short stud 2-56	0.29 [7.4]	0.45 [11.43]
Long stud 2-56	0.36 [9.1]	0.52 [13.21]
Stud M2.5	0.18 [4.6]	0.34 [8.6]

Note: unit in inch [mm]

UNLESS OTHERWISE SPECIFIED
TOLERANCES

	U.S.	METRIC
.X +/-	.020	0.51
.XX +/-	.010	0.25
.XXX +/-	.005	0.13
FRACTIONS +/-		
ANGLES +/-	2.5°	2.5°

FOR MATERIALS AND FINISHES
SEE NOTES

REMOVE SHARP EDGES

DIMENSIONS

U.S. INCHES

METRIC MM

APPROVAL DATE

DRAWN ALEX.LEE	07/18/05
CHECKED TSU	07/18/05
CHECKED	

DRAWING FILE :
DRAWING_816/C816.DWG

ANGLE OF PROJECTION



Amphenol

TITLE

816 Protected Header

SIZE DRAWING NO.

A3 C816-XXXX-XXX T

SCALE NONE

SHEET 1 OF 2

REV.

REVISIONS				
SYM	ECN	DESCRIPTION	DATE	APPROVED
Q	HK1421	RELEASE TO CUSTOMER	06/12/97	NELSON
R	HK1513	***TAIL SIZE MODIFIED	06/01/98	Michael Tsui
S	HK2043	Revise L&E options&delete three side option	8/24/01	Michael IP
T	HK3437	UPDATE DRAWING TO COMPLY WITH RoHS	07/18/05	Michael IP



Customer Drawing