

# CUSTOMER DRAWING



**FREE CONNECTOR  
(HELIOS H4 ASSEMBLED)**



**FIXED CONNECTOR  
(HELIOS H4 BULKHEAD - M12)**



**FIXED CONNECTOR  
(HELIOS H4 BULKHEAD - M14)**

### 3. SPECIFICATIONS:

CONTACT SIZE	1.5mm <sup>2</sup> /16AWG	2.5mm <sup>2</sup> /14AWG	4mm <sup>2</sup> /12AWG	6mm <sup>2</sup> /10AWG	10mm <sup>2</sup> /8AWG
RATED CURRENT	35A (UL)				
	N/A	32A (TUV)	40A (TUV)	44A (TUV)	65A (TUV)
RATED SYSTEM VOLTAGE	600V/1000V DC(UL) 1000V DC(TUV)				
CONTACT RESISTANCE	0.25mΩ TYP.				
DEGREE OF PROTECTION, MATED	IP68(1m, 1h)				
PIN CONTACT MATERIAL	COPPER, TIN PLATED				
INSULATION MATERIAL	THERMOPLASTIC, UL94 V-0				
AMBIENT TEMPERATURE RANGE	-40°C TO +85°C				
STRIP LENGTH	7.0 mm				
CABLE JACKET DIAMETER	4.5 TO 7.8mm FOR TUV 1000V RATING 5.25 TO 7.7mm FOR UL 1000V RATING 5.25 TO 7.95mm FOR UL 600V RATING				

2. USE ONLY CRIMP TOOL AMPHENOL H4TC0002 TO CRIMP CONTACTS

1. THIS ASSEMBLY SHALL BE CERTIFIED RoHS COMPLIANT TO THE EUROPEAN UNION DIRECTIVE 2002/95/EC AS AMENDED PER 2005/618/EC.

#### NOTES:

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N/A	PRO/ENGINEER INFORMATION
N/A	Pro/e Model Used: CPV-090508-M-ASSEM
NEXT ASSEMBLY	Drawing Name: PV-1005X-000-SF-CUS

UNLESS OTHERWISE SPECIFIED	SPECIFICATIONS	POS	QTY	PART NUMBER	DESCRIPTION	NOTE
LINEAR DIMENSIONS ARE IN: <b>MILLIMETERS</b> TOLERANCES: ANGLES = ±2°  DIM. & TOL. PER ASME Y14.5M-1994; DRM PER MIL-DTL-31000; OTHER AMPHENOL STANDARDS: 9-9318 LEGENDS: ◻ = FLAG NOTE CALL OUT REFERENCE ONLY	MATERIAL SPEC. N/A	APPROVALS		DATE	PARTS LIST	
	PROCESS SPEC. N/A	PREPARED BY LEON LI	DESIGN MANAGER	2012-05-23	<b>AMPHENOL CORPORATION</b> <small>40-60 DELAWARE AVENUE SIDNEY, N.Y. 13838</small>  <b>HELIOS H4 1000V/600V CONNECTOR ASSEMBLY</b>	
		THIRD ANGLE PROJECTION			SIZE <b>C</b>	CAGE CODE <b>77820</b>
					DOCUMENT NO. <b>H4C-( )</b>	REV. <b>E</b>
					SCALE: 1.0	REF: -
					SHEET 1 OF 4	

## ORDER P/N: H4CFC2DMS

- (BLANK): COLD FORGING CONTACT
- S: STAMPING FORM CONTACT
- I: INDIVIDUAL PACKING WITH PE BAG (800PCS PER BOX)
- C: BULK PACK 100PCS WITH PE BAG (1000PCS PER BOX)
- M: BULK PACK 500PCS PER PE BAG (1000PCS PER BOX)
- D: TUV & UL APPROVAL
- 2: FOR 2.5mm<sup>2</sup>/14AWG CABLE (FOR C&F,  
AND ALSO FOR 1.5 & 2.5mm<sup>2</sup>/16 & 14AWG S&F)
- 4: FOR 4.0mm<sup>2</sup>/12AWG CABLE (FOR C&F,  
AND ALSO FOR 4.0 & 6.0mm<sup>2</sup>/12 & 10AWG S&F)
- 6: FOR 6.0mm<sup>2</sup>/10AWG CABLE (FOR C&F ONLY)
- 8: FOR 10.0mm<sup>2</sup>/8AWG CABLE (FOR C&F ONLY)
- C: CABLE GLAND (FREE CONN)
- M: BULKHEAD M12
- N: BULKHEAD M14
- F: FEMALE
- M: MALE

REVISIONS		
LTR	DESCRIPTION	DATE
A	INITIAL RELEASE	2011-04-18
B	MODIFY THE TOLERANCE	2011-12-05
C	ADD THE INTERFACE DIMENSION	2011-12-14
D	UPGRADE TO 1000V UL RATING	2012-03-20
E	UPDATE TUV MARK	2012-05-23

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DOCUMENT NO. H4C-( ) SHEET 1 OF 4 REV. E

DOCUMENT NO. H4C-( ) SHEET 1 OF 4 REV. E

4

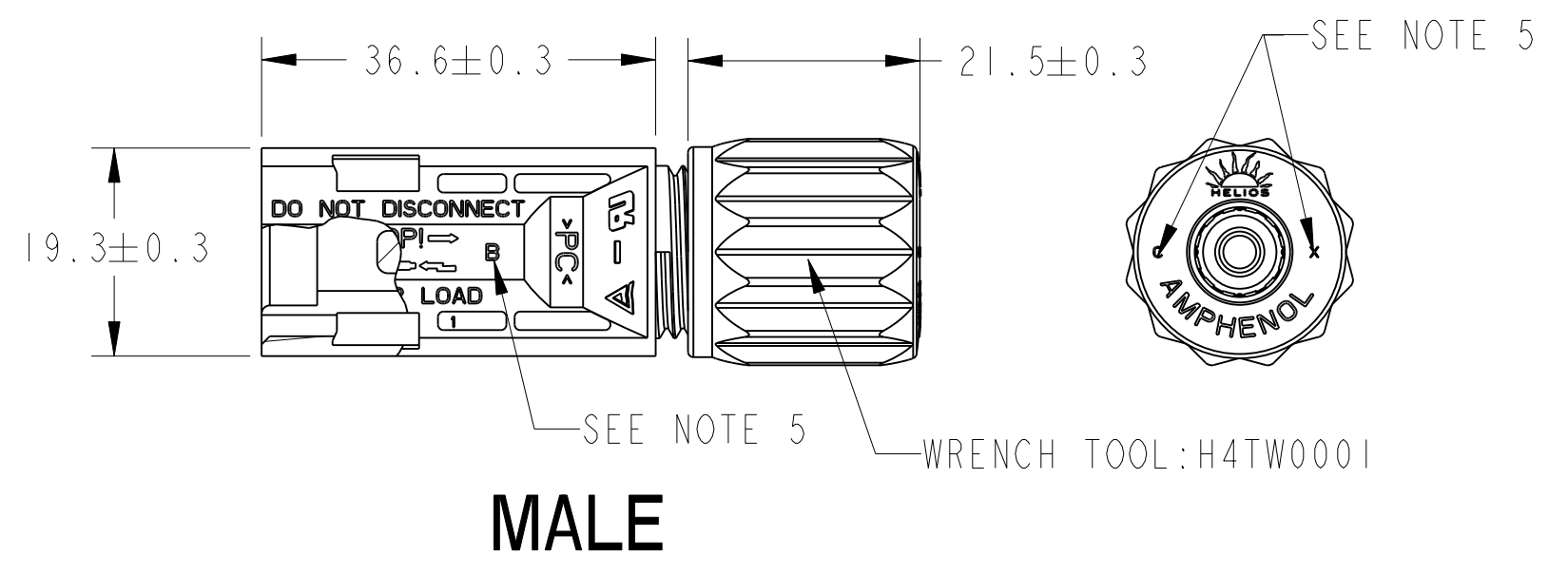
3

2

1

4

### FREE CONNECTOR (HELIOS H4 ASSEMBLED)



### FIXED CONNECTOR (HELIOS H4 BULKHEAD - M12)



### FIXED CONNECTOR (HELIOS H4 BULKHEAD - M14)



- 5. THE MARK OF LETTERS JUST THE VERSION OF THE PLASTIC PARTS FOR AMPHENOL'S MANUFACTURE PROCEDURE, WHEN THE CUSTOMER INSPECT THE PRODUCT, THEY CAN IGNORE THESE NUMBERS.
- 4. FLAT GASKET AND NUT SHOULD NOT BE ASSEMBLED TO THE BODY . SOCKET AND PIN SHOWN INSTALLED FOR REFERENCE ONLY.

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SIZE <b>C</b>	CAGE CODE <b>77820</b>	DOCUMENT NO. <b>H4C-( )</b>	REV. <b>E</b>
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# STAMPING & FORM CONTACT



**SOCKET (FEMALE)**



	A (mm)
1.5 & 2.5mm <sup>2</sup>	4.8
4.0 & 6.0mm <sup>2</sup>	5.8



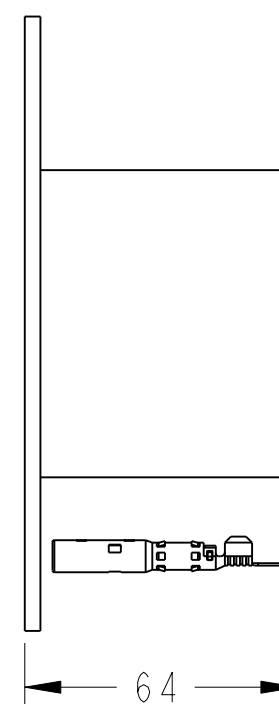
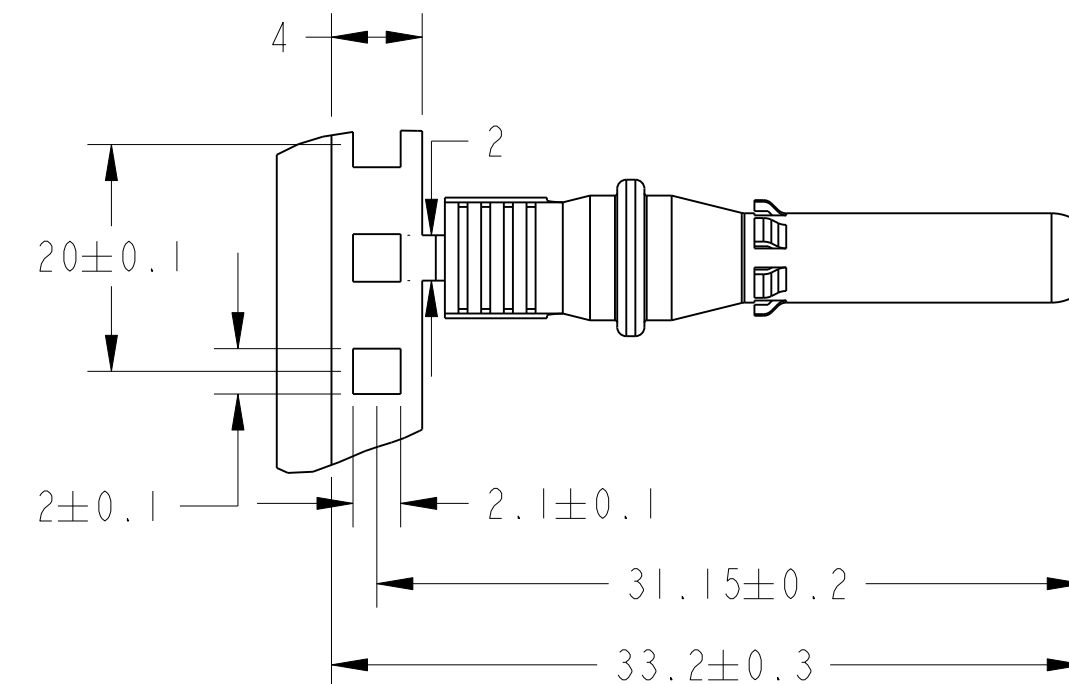
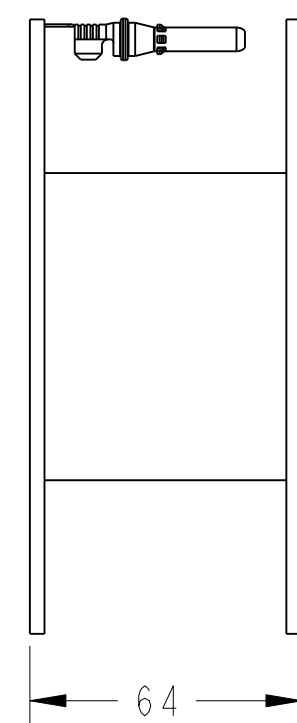
**PIN (MALE)**



## ORDER P/N FOR CONTACTS REEL & PACKING INFO

### H4FF4R

- R: 2000PCS PER REEL
- 2: CABLE SIZE: 1.5 & 2.5mm<sup>2</sup>/16 & 14AWG
- 4: CABLE SIZE: 4.0 & 6.0mm<sup>2</sup>/12 & 10AWG
- F: FOR FEMALE
- M: FOR MALE
- F: STAMPING FORM CONTACTS



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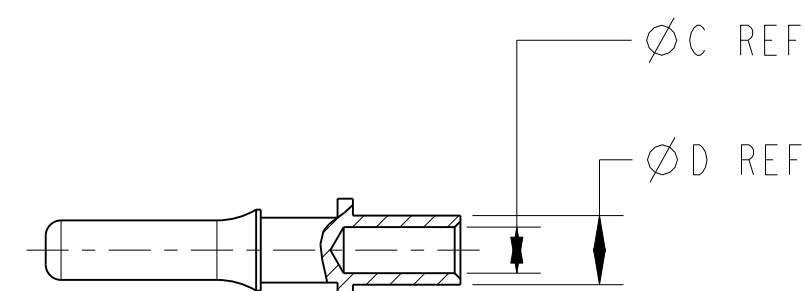
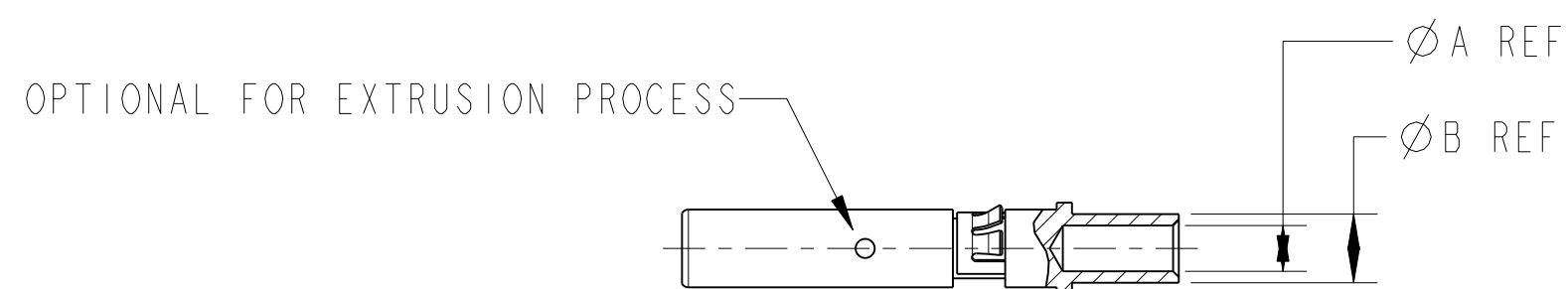
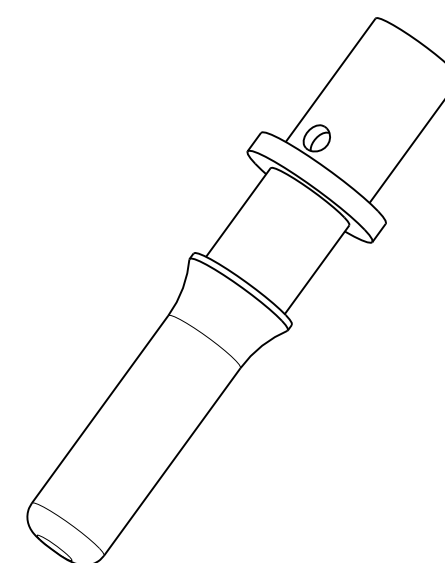
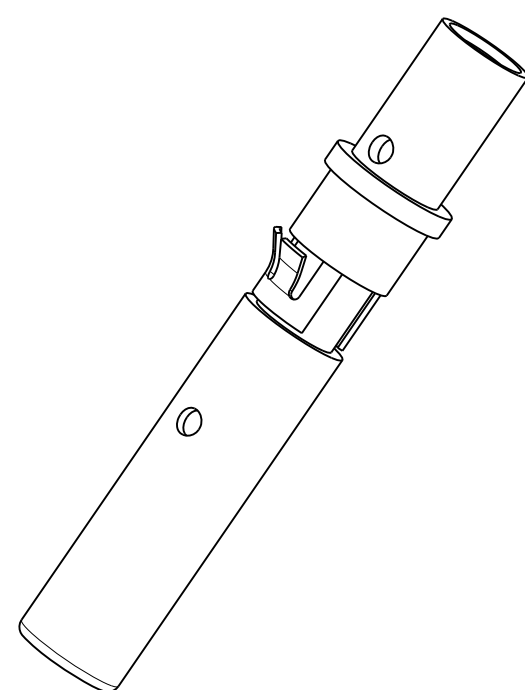
SIZE C	CAGE CODE 77820	DOCUMENT NO. H4C-( )	REV. E
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# COLD FORGING CONTACT

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SHEET 4 OF 4

REV. E



## SOCKET (FEMALE)

## PIN (MALE)

ACCEPT WIRE CONDUCTOR SIZE mm <sup>2</sup> (AWG)	"A"	"B"
2.5 (14)	2.30	3.51
4.0 (12)	3.05	4.57
6.0 (10)	3.76	6.00
10.0(8)	4.50	6.00

ACCEPT WIRE CONDUCTOR SIZE mm <sup>2</sup> (AWG)	"C"	"D"
2.5 (14)	2.30	3.51
4.0 (12)	3.05	4.57
6.0 (10)	3.76	6.00
10.0(8)	4.50	6.00

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D

C

REV. E

SHEET 4 OF 4

DOCUMENT NO. H4C-( )

A

B

A

FORMAT: C-U-L-E-REV-B

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

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<http://moschip.ru/get-element>

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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