

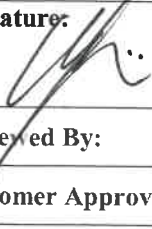


AS9102 Rev. B First Article Inspection
Form 1: Part Number Accountability

1. Part Number D10-1616-089-1 (REF. ITT PN: 0462-201-1631)	2. Part Name CONTACT, ELECTRICAL, CONNECTOR SOCKET, CRIMP REMOVABLE, #16-16	3. Serial Number N/A	4. FAIR Number 1622689
5. Part Revision Level A	6. Drawing Number D10-1616-089-1	7. Drawing Revision Level A	8. Additional Changes N/A
9. Manufacturing Process Reference 1622689	10. Organization Name CARLISLE IT/ TRI-STAR ELECTRONICS	11. Supplier Code LJR ELECTRONICS	12. P.O. Number 0010428-I
13. Detail Part: <input type="checkbox"/> Assembly FAI: <input checked="" type="checkbox"/>	14. Full FAI: <input checked="" type="checkbox"/> Partial FAI: <input type="checkbox"/> Baseline Part Number (including revision level): Reason for Partial FAI:		

- a) If above part number is a detail part only, go to Field 19.
- b) If above part number is an assembly, go to the "INDEX" section below.

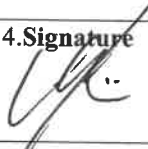

INDEX of part numbers or sub-assembly numbers required to make the assembly noted above.


15. Part Number	16. Part Name	17. Part Serial Number	18. FAIR Number
024-1616-089-C	CONTACT, SOCKET BODY, CRIMP, SIZE 16, COLD HEADED	CT-18-286770	
H-902-T	SLEEVE, SOCKET CONTACT #16	CT-18-286334	

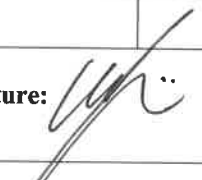

19) Signature:   <input checked="" type="checkbox"/> FAI complete <input type="checkbox"/> FAI not complete	20. Date: 10/02/2018
21. Reviewed By: <i>Alan Porto</i> 	22. Date: 10/02/2018
23. Customer Approval:	24. Date:

AS9102 Rev. B First Article Inspection

Form 2: Product Accountability – Materials, Special Processes and Functional Testing

1. Part Number D10-1616-089-1 (REF. ITT PN: 0462-201-1631)		2. Part Name CONTACT, ELECTRICAL, CONNECTOR SOCKET, CRIMP REMOVABLE, #16-16		3. Serial Number N/A		4. FAIR Number 1622689	
5. Material or Process Name		6. Specification Number		7. Code	8. Supplier	9. Customer Approval Verification	10. Certificate of Conformance Number
CONTACT BODY LEADED NICKEL COPPER UNS 19150		PER AS39029					CERTIFICATION OF CONFORMANCE FROM RAW MATERIAL SUPPLIER (SEE ATTACHED CERTIFICATION)
GOLD PLATE		PER MIL-DTL-45204					
NICKEL PLATE		PER AMS-QQ-N-290					
SLEEVE STAINLESS STEEL		305					CERTIFICATION OF CONFORMANCE FROM RAW MATERIAL & PASSIVATION SUPPLIER (SEE ATTACHED CERTIFICATION)
PASSIVATED		AMS 2700					
11. Functional Test Procedure Number		12. Acceptance report number					
ENGAGEMENT & SEPARATION FORCES		SEE ATTACHED RESULTS					
13. Comments:							
14. Signature 				15. Date 10/02/2018			
							

1. Part Number D10-1616-089-1 (REF. LJR PN: 0462-201-1631)				2. Part Name CONTACT, ELECTRICAL, CONNECTOR SOCKET, CRIMP REMOVABLE, #16-16			3. Serial Number N/A	4. FAIR Number 1622689
Characteristic Accountability				Inspection / Test Results				
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed/ Qualified Tooling	11. Non-Conformance Number	14. Additional Data / Comments	
1	C4	N/A	Ø .103 - .101	Ø .101	TESA V300	N/A	NOTE: ALL DIMENSION SHOWN ARE IN INCHES AFTER PLATING AND ASSEMBLY	
2	C4	N/A	Ø .068 - .066	Ø .067	TESA V300	N/A		
3	C3	N/A	CONTACT	CONFORMED	VISUAL	N/A		
4	C3	N/A	Ø .133 - .130	.131	TESA V300	N/A		
5	D3	N/A	.257 - .246	.250	TESA V300	N/A		
6	C3	N/A	.048 - .044	.044	TESA V300	N/A		
7	D3	N/A	(.749)	.744	TESA V300	N/A		
8	D2	N/A	.500 - .494	.494	TESA V300	N/A		
9	C2	N/A	SLEEVE	CONFORMED	VISUAL	N/A		
10	C1	N/A	Ø .113 - .110	Ø .110	TESA V300	N/A		
11	C2	N/A	.290 MIN	.349	TESA V300	N/A		
12	B3	N/A	TRI-STAR TRADEMARK (LOCATION OPTIONAL)	CONFORMED	VISUAL	N/A		
13	B3	N/A	.284 - .250	.251	TESA V300	N/A		
14	A4	N/A	NOTE 1	CONFORMED	N/A	N/A		
15	A4	N/A	NOTE 2	CONFORMED	N/A	N/A		
16	A4	N/A	NOTE 3	CONFORMED	N/A	N/A		
17	A4	N/A	NOTE 4	CONFORMED	N/A	N/A		
12. Signature: 							13. Date: 10/02/2018	

1. Part Number D10-1616-089-1 (REF. TSEI PN: 0462-201-1631)				2. Part Name CONTACT, ELECTRICAL, CONNECTOR SOCKET, CRIMP REMOVABLE, #16-16			3. Serial Number	4. FAIR Number 1622689
Characteristic Accountability				Inspection / Test Results				
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed/Qualified Tooling	11. Non-Conformance Number	14. Additional Data / Comments	
18	A4	N/A	NOTE 5	CONFORMED	N/A		NOTE: ALL DIMENSION SHOWN ARE IN INCHES AFTER PLATING AND ASSEMBLY	
12. Signature:  							13. Date: 10/02/2018	

* CLEAR *

1	-5.93
2	-6.18
3	-4.53
4	-6.04
5	-5.28
6	-5.37
7	-5.75
8	-5.29
9	-5.70
10	-6.05
11	-6.15
12	-5.37
13	-6.10

1	16.04
2	14.77
3	14.18
4	14.22
5	14.71
6	14.14
7	13.86
8	13.05
9	14.43
10	14.35
11	14.89
12	16.85
13	16.53

PART NO. :
.....

DATE 2018/10/ 3
TIME 8:25
.....

NAME :
.....

* RESULT *

N	13
MAX	-4.53
MIN	-6.18
R	1.65
\bar{x}	-5.6723
σ_n	0.4647
σ_{n-1}	0.4837

PART NO. :
.....

DATE 2018/10/ 3
TIME 8:24
.....

NAME :
.....

* RESULT *

N	13
MAX	16.85
MIN	13.05
R	3.80
\bar{x}	14.7707
σ_n	1.0444
σ_{n-1}	1.0871



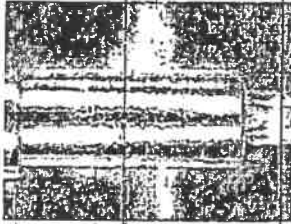
Fischerscope®

XRAY XDLM 237

Product: 35 / D10-1616-089-1
Application: 25 / Au/Ni/PbNiCu

Dir: Fischer Block: 34

Order No: 1622689
Material No: D10-1616-089-1
Plating Load: 5971



N	Au 1 [μ"]		Ni 2 [μ"]	
	10.0	19.0	100.0	390.0
1	14.2		151.2	
2	10.4		129.7	
3	14.7		158.9	
4	13.1		130.7	
5	14.4		150.1	
6	13.5		135.5	
7	13.1		145.8	
8	12.1		165.8	
9	13.7		127.6	
10	14.5		155.5	
11	13.8		134.9	
12	13.3		129.9	
13	13.9		129.1	
14	12.6		146.9	
15	14.7		128.4	
16	14.6		140.3	
17	12.0		129.0	
18	13.2		143.0	
19	12.7		149.6	
20	12.3		146.0	

Mean	13.3	μ"	141.4	μ"
Standard deviation	1.11	μ"	11.6	μ"
C.O.V. (%)	8.32		8.18	
Range	4.35	μ"	38.2	μ"
Number of readings	20		20	
Min. reading	10.4	μ"	127.6	μ"
Max. reading	14.7	μ"	165.8	μ"
Measuring time	10	sec		

Operator: EDREL MONGE
Date: 7/31/2018 Time: 3:18:49 PM

BAOSHIDA SWISSMETAL

Inspection certificate 3.1 EN10204

Tri-star Riverside
4200 Garner Road
RIVERSIDE CA 92501
ETATS-UNIS

Certif.-ID creation date: 2018/06/19
10221298-40000201150
Your customer no.
8526
Your order no. / date
PO-607199 / 20180612
Our delivery no. / date
80222978 000010 / 20180706
Our order no. / date
0000160665 000010 / 20180613
Production order / Inspection lot / Inspection lot creation date
10221298/40000201150 / 2018/06/07

Weight: 291.01 LB
Material: 2-8675-PPCA-1 / C98T FIL RON Ø2.553
Product: - - C19150 -
Dim 1: 2.553 mm -0.025
Alloy: CUNI1PBP
Specification: EPS-0009 Rev.L
Ring inner diameter min.: 400 mm

accepted by derogation

Characteristic	Baoshida Swissmetal			Norm		Results	Unit
	Min	Max	Min	Max			
Mechanical / physical and other properties							
Tensile Strength	586	689				569 576 567	N/mm2
Yield strength Rp 0,2 %						534 536 518	N/mm2
Elongation ASTM	3.0					10.9 8.8 9.9	%
Non destructives inspections							
Electrical conductivity	50.0					54.8 55.2	%IACS

CT-18-286770

This product has been manufactured under our quality-environment-management-system to ISO 9001 / 14001, BVC SCESm 003.

Baoshida Swissmetal Ltd.,
Route de Tavannes 4, CH-2732 Reconvilier
Phone 032 482 0 482 Fax 032 482 0 116 VAT 646771

BAOSHIDA

SWISSMETAL

Delivery position / date
80222978 000010/20180706

Tri-star Riverside
4200 Garner Road
RIVERSIDE CA 92501
ETATS-UNIS

54.7
55.1
54.7

Metallography

Grain size	10			
			20	µm
			20	

Chemical composition(%)

			Rem	
Copper - Remaining				
Lead	0.5	1.0	0.6	%
Iron	0.00	0.05	0.00	%
Tin	0.00	0.05	0.00	%
Nickel	0.8	1.2	1.0	%
Zinc	0.00	0.25	0.03	%
Cadmium	0.000	0.005	0.000	%
Phosphor	0.15	0.30	0.26	%
Others-C4	0.00	0.25	0.05	%

Baoshida Swissmetal Ltd S.Texier. The certificate is electronically made out of SAP and is valid without signature. The products supplied are in compliance with the requirements of the order.

CT-18-286770

This product has been manufactured under our quality-environment-management-system to ISO 9001 / 14001, BVC SCESm 003.

Baoshida Swissmetal Ltd.,
Route de Tavannes 4, CH-2732 Reconvilier
Phone 032 482 0 482 Fax 032 482 0 116 VAT 646771

Certificate

Certificate of Conformance

Purchase Order	Quantity	Part #	Lot Number
602893	3,200,000	Carby 1983	13-18
		H-902-T	29-18
		Rev G	230-18

Customer: *Tri Star*

"It is hereby certified that all articles on the above shipment and in the quantities as called for in the above contractor's Purchase Order are in conformance with the blue print and/or purchase order specifications and that physical and/or chemical test reports pertaining to same are on file subject to examination as required by specification MIL-Q-9858."

Material Type: *Stainless Steel*

Specification: *305*



The Carby Corporation

Excellence in Engineered Deep Drawn Metal Products

1121 Echo Lake Road Tel. 860-274-6741

PO Box 427 Fax 860-274-6744

Watertown, CT

06795-0427

Thomas J. Swirski
Quality Manager

Date: Monday, June 25, 2018

Additional Comments:

Finish: Clean & passivate per AMS 2700.

CT - 18 - 286334

"Seller hereby acknowledges that the parts and /or materials being shipped under this order are intended for use under Boeings Fedral Aviation Administation (FAA) issued Production Certificate 700"

All material has been final inspected and accepted per Zero Acceptance Number Sampling Plans based on ANSI/ASQZ1.4

CT - 18 - 286334



NATIONAL KWIKMETAL SERVICE
 560 SANTA ROSA DES PLAINES, IL 60018
 (847)257-6570 Fax: (847)824-7250
METALLURGICAL TEST REPORT

Date Shipped
 05-24-18
 Certificate
 172169-1

Job # 1915/1983/1729
 5.29.18 12, ESC #

Ship THE CARBY CORPORATION
 To: 1121 ECHO LAKE RD.
 WATERTOWN, CT 06795-0427

Sold CARBY CORPORATION~THE
 To: PO BOX 427

Job # 1915
 Lot 104-18
 Job # 1983
 Lot 29-18

WATERTOWN, CT 06795-0427

Chemical Analysis Heat 0451658

Country of Origin/Mfg: ITALY

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	N
0.0490	0.8100	0.0290	0.0010	0.4800	18.0000	12.0000	0.1900	0.2700	0.0270

Job # 1729
 Lot 229-18 B/L

Material DFR Compliant Per Clause 252.225.7009

Mill/Source: ARINOX S.p.A.

Job # 1983
 Lot 250-18

Skid ID	Type	Width	Thickness	Weight Qty	Cust PO/Part #
601199	305	00.9750	0.0085	463 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601200	305	00.9750	0.0085	463 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601201	305	00.9750	0.0085	469 6	23225 / .0085X 975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601202	305	00.9750	0.0085	477 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601,203305	00.9750	0.0085	452 6	23225 / .0085X 975 305 SS	
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601204	305	00.9750	0.0085	463 6	23225 / .0085X 975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601205	305	00.9750	0.0085	451 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9

Roberto Nevarez
 Roberto Nevarez
 Quality Manager

Mat is Free of Mercury and Radioactive Contamination ; Reach and RoHS Compliant per 2002-95-EC ;
 Tensile & Yield are reported as PSI ; Thickness and Width are reported in inches ; Elongation reported as percent

CT-18-286334



NATIONAL KWIKMETAL SERVICE
 560 SANTA ROSA DES PLAINES, IL 60018
 (847)257-6570 Fax: (847)824-7250
METALLURGICAL TEST REPORT

Date Shipped
 05-24-18
 Certificate
 172169-2

Ship THE CARBY CORPORATION
 To: 1121 ECHO LAKE RD.
 WATERTOWN, CT 06795-0427

Sold CARBY CORPORATION-THE
 To: PO BOX 427

WATERTOWN, CT 06795-0427

Chemical Analysis Heat 0451658

Country of Origin/Mfg: ITALY

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	N
0.0490	0.8100	0.0290	0.0010	0.4800	18.0000	12.0000	0.1900	0.2700	0.0270

Material DfAR Compliant Per Clause 252.225.7009

Mill/Source: ARTNOX S P A

Skid ID	Type	Width	Thickness	Weight Qty	Cust PO/Part #
601211	305	00.9750	0.0085	463 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601214	305	00.9750	0.0085	502 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601215	305	00.9750	0.0085	553 7	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601216	305	00.9750	0.0085	545 7	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601217	305	00.9750	0.0085	461 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601218	305	00.9750	0.0085	451 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601227	305	00.9750	0.0085	453 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9

Roberto Navarro

Roberto Navarro
 Quality Manager

Material is free of Mercury and Radioactive Contamination; Reach and RoHS Compliant per 2012-95-EC.
 Tensile & Yield are reported as PSI. Thickness and Width are reported in inches. Elongation reported as percent.

CT-18-286334



NATIONAL KWIKMETAL SERVICE
 560 SANTA ROSA DES PLAINES, IL 60018
 (847) 257-6570 Fax: (847) 824-7250
METALLURGICAL TEST REPORT

Date Shipped
 05-24-18
 Certificate
 172169-3

Ship THE CARBY CORPORATION
 To: 1121 ECHO LAKE RD.
 WATERTOWN, CT 06795-0427

Sold CARBY CORPORATION-THE
 To: PO BOX 427

WATERTOWN, CT 06795-0427

Chemical Analysis Heat 0451658

Country of Origin/Mtg: ITALY

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	N
0.0490	0.8100	0.0290	0.0010	0.4800	18.0000	12.0000	0.1900	0.2700	0.0270

Material DEAR Compliant Per Clause 252.225.7009

Mill/Source ARINOX S.p.A.

Skid ID	Type	Width	Thickness	Weight Qty	Cust PO/Part #
601232	305	00.9750	0.0085	455 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601233	305	00.9750	0.0085	710 9	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601235	305	00.9750	0.0085	503 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601236	305	00.9750	0.0085	501 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601237	305	00.9750	0.0085	485 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9
601238	305	00.9750	0.0085	498 6	23225 / .0085X.975 305 SS
	Tensile:	92,824	Yield(.2% offset):	41,915	Elong: 51 Hardness: 138 VHN Grain: 9

Specification(s)
 ASTM A240/A 240M 17 305 ANNEALED

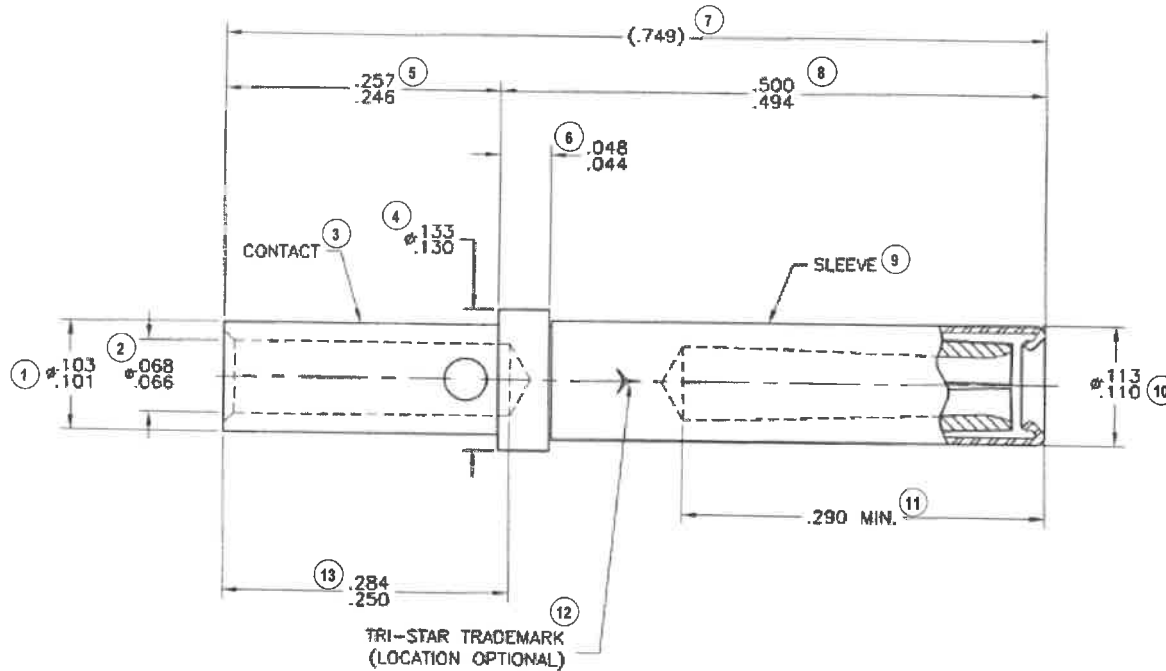
Roberto Nevarez
 Roberto Nevarez
 Quality Manager

Mat'l is Free of Mercury and Radioactive Contamination; Reach and RoHS Compliant per 2002-95-EC.
 Tensile & Yield are reported as PSI; Thickness and Width are reported in inches; Elongation reported as percent.

CT-18-286334

THE INFORMATION CONTAINED HEREIN IS PROPRIETARY TO CARLISLE, INC. AND SHALL IN NO WAY BE REPRODUCED OR DISCLOSED IN WHOLE OR IN PART OR USED FOR ANY DESIGN OR MANUFACTURE EXCEPT WHEN SUCH USER POSSESSES DIRECT, WRITTEN AUTHORIZATION FROM CARLISLE, INC.

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPO
NC	NEW RELEASE PER E.O. 21800	9/11/12	J.K.
A	REVISED PER E.O. 24213	6/5/17	JW



SALES DRAWING

- 18 5. CRIMP TOOL DATA:
BASIC CRIMP TOOL - M22520/1-01.
POSITIONER - M22520/1-02 BLUE.
- 17 4. ENGAGEMENT AND SEPARATION FORCES AS39029.
- 16 3 FINISH: CONTACT - GOLD PLATE PER MIL-DTL-45204 OVER NICKEL PLATE PER SAE-AMS-QQ-N-290
- 15 2 MATERIAL:
CONTACT - SUITABLE COPPER ALLOY PER AS39029.
SLEEVE - STAINLESS STEEL, PASSIVATED.
- 14 1. www.carlisleit.com

NOTES: (UNLESS OTHERWISE SPECIFIED)

DIMENSIONING AND TOLERANCING SHALL BE INTERPRETED PER ASME Y14.5M-1994.
DIMENSIONS ARE IN INCHES/MILLIMETERS & TOLERANCES UNLESS OTHERWISE NOTED

.X	.XX	.XXX	ANGLE
±.1	±.01	±.005	±.30'

THIRD ANGLE PROJECTION

MATERIAL: 2	FINISH: 3	TREATMENT: --
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NEXT ASSY	USED ON
APPLICATION	
DATE	DATE
DRAWN	F.R. 9/10/12
CHECKED	LBO 9/11/12
APPROVED	JK 9/11/12
REF:	

CARLISLE
INTERCONNECT TECHNOLOGIES

TRI-STAR
REGISTERED TRADEMARK

2201 ROSZORANS AVENUE, EL SEQUOYO, CA 90245

DWC FILE			
CONTACT, ELECTRICAL, CONNECTOR SOCKET, CRIMP REMOVABLE, #16-16			
REV	DATE	CARLISLE NUMBER	REV
A	55104	D10-1616-089-1	A
SCALE 6.25X-		DO NOT SCALE DWG	SHEET# 1 OF 1