

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0192210232
Status: Active
Description: Compression Style Ring Tongue Terminal for 4 AWG Wire, Stud Size 3/8", Plated

Documents:
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR18689
UL E32244

General

Product Family Ring and Spade Terminals
Series 19221
Comments Heavy Duty
Crimp Quality Equipment Yes
Mil-Spec N/A
Product Name Battery Cable Lug
Type Ring

Physical

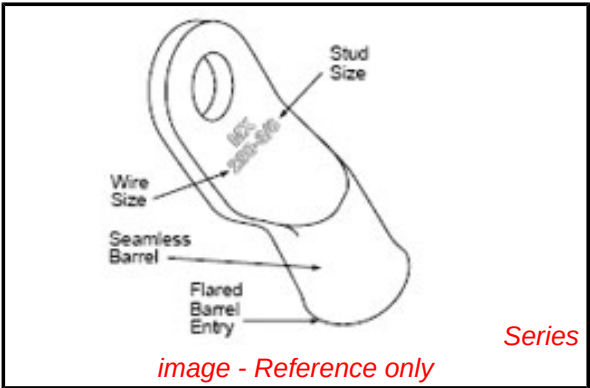
Barrel Type Closed
Insulation None
Material - Plating Mating Tin
Packaging Type Bag
Plating min: Mating (µin) 160
Plating min: Mating (µm) 4
Plating min: Termination (µin) 160
Plating min: Termination (µm) 4
Stud Size 3/8" (M9)
Termination Interface: Style Crimp or Compression
Wire Insulation Diameter N/A
Wire Size AWG 4
Wire Size mm² 96.3 - 117.0

Material Info

Old Part Number BCL-438-PL

Reference - Drawing Numbers

Sales Drawing SD-19221-010



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Halogen-Free

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[19221Series](#)

Application Tooling | FAQ
Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global	
Description	Product #
Putt Pump Dieless Head System	0192860065
Manual tool for Crimping non-insulated 8AWG thru 4/0 Terminals	0192940008
Manual Putt Pump Hydraulic System, Die set required	0192860117
Hand Crimp Tool	0192840034
Die Set (large) for the HHLS Hydraulic Crimper	0192900007

This document was generated on 04/14/2010

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	13	12	11	10	9	8	7	6	5	4	3	2	1																																																
	UNPLATED MATERIAL NUMBER	UNPLATED ENG. NUMBER	UNPLATED MAT. NO. ON TAPE	UNPLATED ENG. NO. ON TAPE	PLATED MATERIAL NUMBER	PLATED ENGINEERING NUMBER	PLATED MAT. NO. ON TAPE	PLATED ENG. NO. ON TAPE	SEE DETAIL	STUD SIZE	AWG WIRE RANGE	"S"	"L"	"W"	"C"	"B"	"T"																																												
J	1922 I0451	BCL-410	---	---	1922 I0452	BCL-410-PL	---	---	---	10/(4.83)	4	.214/(5.45)	1.500/(38.10)	.531/(13.49)	.429/(10.90)	.286/(7.26)	.080/(2.03)	J																																											
	1922 I0404	BCL-414	---	---	1922 I0230	BCL-414-PL	---	---	---	1/4/(6.4)	4	.278/(7.06)	1.500/(38.10)	.531/(13.49)	.429/(10.90)	.286/(7.26)	.080/(2.03)																																												
	1922 I0405	BCL-4516	---	---	1922 I0231	BCL-4516-PL	190820025	BCL-4516-PLT	D	5/16/(7.9)	4	.340/(8.64)	1.500/(38.10)	.531/(13.49)	.429/(10.90)	.286/(7.26)	.080/(2.03)																																												
	1922 I0461	BCL-4516-WP	---	---	1922 I0460	BCL-4516-WP-PL	---	---	---	5/16/(7.9)	4	.340/(8.64)	1.531/(38.89)	.625/(15.88)	.397/(10.08)	.286/(7.26)	.080/(2.03)																																												
	1922 I0383	BCL-438	---	---	1922 I0232	BCL-438-PL	190820026	BCL-438-PLT	E	3/8/(9.5)	4	.400/(10.16)	1.500/(38.10)	.531/(13.49)	.429/(10.90)	.286/(7.26)	.080/(2.03)																																												
	1922 I0458	BCL-438-WP	---	---	1922 I0456	BCL-438-WP-PL	190820027	BCL-438-WP-PLT	E	3/8/(9.5)	4	.400/(10.16)	1.531/(38.89)	.625/(15.88)	.397/(10.08)	.286/(7.26)	.080/(2.03)																																												
I	1922 I0459	BCL-438-XWP	---	---	1922 I0457	BCL-438-XWP-PL	---	---	---	3/8/(9.5)	4	.400/(10.16)	1.688/(42.88)	.766/(19.46)	.444/(11.28)	.286/(7.26)	.100/(2.54)	I																																											
	1922 I0453	BCL-412	---	---	1922 I0454	BCL-412-PL	---	---	---	1/2/(12.7)	4	.520/(13.21)	1.688/(42.88)	.766/(19.46)	.444/(11.28)	.286/(7.26)	.100/(2.54)																																												
	1922 I0419	BCL-214	---	---	1922 I0418	BCL-214-PL	190820001	BCL-214-PLT	C	1/4/(6.4)	2	.278/(7.06)	1.625/(41.28)	.625/(15.88)	.437/(11.10)	.336/(8.53)	.095/(2.41)																																												
	1922 I0400	BCL-2516	---	---	1922 I0233	BCL-2516-PL	190820002	BCL-2516-PLT	C	5/16/(7.9)	2	.340/(8.63)	1.625/(41.28)	.625/(15.88)	.437/(11.10)	.336/(8.53)	.095/(2.41)																																												
	1922 I0380	BCL-238	---	---	1922 I0235	BCL-238-PL	---	---	---	3/8/(9.5)	2	.400/(10.16)	1.625/(41.28)	.625/(15.88)	.437/(11.10)	.336/(8.53)	.095/(2.41)																																												
	1922 I0564	BCL-238-WP	---	---	1922 I0565	BCL-238-WP-PL	---	---	---	3/8/(9.5)	2	.400/(10.16)	1.750/(44.45)	.750/(19.05)	.474/(12.04)	.336/(8.53)	.095/(2.41)																																												
	1922 I0399	BCL-212-WP	---	---	1922 I0236	BCL-212-WP-PL	---	---	---	1/2/(12.7)	2	.520/(13.21)	1.750/(44.45)	.750/(19.05)	.474/(12.04)	.336/(8.53)	.095/(2.41)																																												
H	1922 I0594	BCL-110	---	---	1922 I0595	BCL-110-PL	---	---	---	#10/(4.83)	1	.214/(5.45)	1.718/(43.64)	.656/(16.66)	.446/(11.33)	.360/(9.14)	.100/(2.54)	H																																											
	1922 I0421	BCL-114	---	---	1922 I0420	BCL-114-PL	---	---	---	1/4/(6.4)	1	.278/(7.06)	1.718/(43.64)	.656/(16.66)	.446/(11.33)	.360/(9.14)	.100/(2.54)																																												
	1922 I0396	BCL-1516	---	---	1922 I0237	BCL-1516-PL	---	---	---	5/16/(7.9)	1	.340/(8.63)	1.718/(43.64)	.656/(16.66)	.446/(11.33)	.360/(9.14)	.100/(2.54)																																												
	1922 I0378	BCL-138	---	---	1922 I0238	BCL-138-PL	---	---	---	3/8/(9.5)	1	.400/(10.16)	1.718/(43.64)	.656/(16.66)	.446/(11.33)	.360/(9.14)	.100/(2.54)																																												
	1922 I0580	BCL-138-WP	---	---	1922 I0581	BCL-138-WP-PL	---	---	---	3/8/(9.5)	1	.400/(10.16)	1.844/(46.84)	.750/(19.05)	.474/(12.04)	.360/(9.14)	.100/(2.54)																																												
	1922 I0395	BCL-112	---	---	1922 I0239	BCL-112-PL	---	---	---	1/2/(12.7)	1	.520/(13.21)	1.844/(46.84)	.750/(19.05)	.474/(12.04)	.360/(9.14)	.100/(2.54)																																												
G	<div><div><div>4</div><div>LOGO, AWG & STUD SIZE</div></div><div><div>4</div><div>AWG WIRE SIZE STAMPED ON BARREL</div></div><div><div>FLARED BARREL FOR EASY WIRE ENTRY</div></div><div><div>5</div><div></div></div><div><div>"S" DIA.</div></div><div><div>"L"</div></div><div><div>"W"</div></div><div><div>"C"</div></div><div><div>"B" DIA.</div></div><div><div>"T"</div></div></div> <div><div>DETAIL C</div><div>DETAIL D</div><div>DETAIL E</div></div> <tr><td>F</td><td>F</td></tr> <tr><td>E</td><td>E</td></tr> <tr><td>D</td><td>D</td></tr> <tr><td>C</td><td>C</td></tr> <tr><td>B</td><td colspan="17"><div>NOTES:</div><div>1. FOR INSPECTION SIGHT HOLE, PLEASE CONSULT FACTORY.</div><div>2. OTHER STUD SIZES MAY BE AVAILABLE, PLEASE CONSULT FACTORY.</div><div>3. MATERIAL: COPPER PLATING: TIN</div><div>4. MARKINGS CAN BE AT EITHER LOCATION SHOWN.</div><div>5. IF TONGUE IS TO BE BENT AT ANY ANGLE, IT MUST BE BENT AROUND A RADIUS ONE HALF THE TONGUE THICKNESS.</div></td><td>B</td></tr> <tr><td>A</td><td colspan="15"><div>ADDED DETAIL E</div><div>EC NO: ETC2006-0005</div><div>2005/11/23</div><div>DRW: NLSHADECK</div><div>CHKD: JDEROSS</div><div>2005/11/23</div><div>APPR: JPAWLICK</div><div>2005/11/23</div><div>DESCRIPTION</div><div>QUALITY SYMBOLS</div><div>▽=0</div><div>▽=0</div><div>GENERAL TOLERANCES (UNLESS SPECIFIED)</div><div>mm</div><div>INCH</div><div>DRAWN BY</div><div>DATE</div><div>CHECKED BY</div><div>DATE</div><div>APPROVED BY</div><div>DATE</div><div>MATERIAL NO.</div><div>DOCUMENT NO.</div><div>SHEET NO.</div><div>1 OF 1</div><div>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</div><div>SEE CHART</div><div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</div></td><td>A</td></tr>																	F	F	E	E	D	D	C	C	B	<div>NOTES:</div> <div>1. FOR INSPECTION SIGHT HOLE, PLEASE CONSULT FACTORY.</div> <div>2. OTHER STUD SIZES MAY BE AVAILABLE, PLEASE CONSULT FACTORY.</div> <div>3. MATERIAL: COPPER PLATING: TIN</div> <div>4. MARKINGS CAN BE AT EITHER LOCATION SHOWN.</div> <div>5. IF TONGUE IS TO BE BENT AT ANY ANGLE, IT MUST BE BENT AROUND A RADIUS ONE HALF THE TONGUE THICKNESS.</div>																	B	A	<div>ADDED DETAIL E</div> <div>EC NO: ETC2006-0005</div> <div>2005/11/23</div> <div>DRW: NLSHADECK</div> <div>CHKD: JDEROSS</div> <div>2005/11/23</div> <div>APPR: JPAWLICK</div> <div>2005/11/23</div> <div>DESCRIPTION</div> <div>QUALITY SYMBOLS</div> <div>▽=0</div> <div>▽=0</div> <div>GENERAL TOLERANCES (UNLESS SPECIFIED)</div> <div>mm</div> <div>INCH</div> <div>DRAWN BY</div> <div>DATE</div> <div>CHECKED BY</div> <div>DATE</div> <div>APPROVED BY</div> <div>DATE</div> <div>MATERIAL NO.</div> <div>DOCUMENT NO.</div> <div>SHEET NO.</div> <div>1 OF 1</div> <div>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</div> <div>SEE CHART</div> <div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</div>															A
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Rev. D 2004/04/02

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