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Jameco Part Number 1964178



PRODUCT SPECIFICATION

INSULKRIMP RINGS AND SPADES

1.0 SCOPE

- A. THIS PRODUCT SPECIFICATION COVERS THE INSULKRIMP RINGS AND SPADES WITH PVC INSULATION AND TIN PLATING FOR 22 AWG TO 3/0 AWG WIRE.

2.0 PRODUCT DESCRIPTION

2.1 INSULATED RINGS AND SPADES

- A. 19054 INSULKRIMP LONG BARREL RINGS 22 – 14 AWG
- B. 19055 INSULKRIMP BRAZED LONG BARREL RINGS 22 – 14 AWG
- C. 19070 INSULKRIMP RINGS 22 – 10 AWG
- D. 19071 INSULKRIMP BRAZED RINGS 8 – 3/0 AWG
- E. 19075 INSULKRIMP STAR RINGS 22 – 14 AWG
- F. 19080 INSULKRIMP MULTI STUD RINGS 22 – 10 AWG
- G. 19089 INSULKRIMP LONG BARREL RECTANGULAR TONGUE 22 – 14 AWG
- H. 19090 INSULKRIMP RECTANGULAR TONGUE 22 – 10 AWG
- I. 19099 INSULKRIMP SNAP SPADES 22 – 10 AWG
- J. 19119 INSULKRIMP LONG BARREL FLANGED SPADES 22 – 14 AWG
- K. 19120 INSULKRIMP BRAZED LONG BARREL FLANGED SPADES 22 – 14 AWG
- L. 19121 INSULKRIMP FLANGED SPADES 22 – 10 AWG
- M. 19122 INSULKRIMP BRAZED FLANGED SPADES 22 – 10 AWG
- N. 19130 INSULKRIMP LONG BARREL BLOCK SPADES 22 – 14 AWG
- O. 19131 INSULKRIMP BLOCK SPADES 22 – 10 AWG
- P. 19142 INSULKRIMP LONG BARREL SPADES 22 – 14 AWG
- Q. 19143 INSULKRIMP BRAZED LONG BARREL SPADES 22 – 14 AWG
- R. 19144 INSULKRIMP SPADES 22 – 10 AWG
- S. 19145 INSULKRIMP BRAZED SPADES 22 – 10 AWG
- T. 19171 INSULKRIMP LONG BARREL HOOKS 22 – 14 AWG
- U. 19179 INSULKRIMP HOOKS 22 – 10 AWG
- V. 19204 INSULKRIMP 3 & 4 WAY RINGS 22 – 10 AWG

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

- A. THE DIMENSIONAL CHARACTERISTICS ARE IDENTIFIED ON THE SALES DRAWINGS.
- B. MATERIALS:
 - I. BASE MATERIAL IS C11000 COPPER IN VARIOUS THICKNESSES.
 - II. PLATING IS MATTE TIN .000100(0.00254) MINIMUM THICKNESS.
 - III. INSULATION MATERIAL IS PVC IN VARIOUS COLORS.

2.3 SAFETY AGENCY APPROVALS

- A. ALL PARTS ARE UL LISTED E32244 CATEGORY ZMVV
- B. ALL PARTS ARE CSA CERTIFIED LR18689 CLASS 6223-02
- C. ALL PARTS ARE ROHS COMPLIANT

REVISION: A	ECR/ECN INFORMATION: EC No: WNA2008-0003 DATE: 2007 / 12 / 17	TITLE: INSULKRIMP RING AND SPADE TERMINALS	SHEET No. 1 of 3
DOCUMENT NUMBER: PS-19902-009	CREATED / REVISED BY: R. DEROSS	CHECKED BY: E. THRODAHL	APPROVED BY: J. MACNEIL



PRODUCT SPECIFICATION

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

- A. UL LISTED TO STANDARD 486A & B
- B. CSA CERTIFIED TO STANDARD C22.2 NO 65

4.0 RATINGS

4.1 VOLTAGE

- A. ALL OF THESE PARTS ARE RATED AT 600VAC.

4.2 CURRENT

- A. THE AMPERAGE RATING IS BASED ON THE WIRE AWG APPLIED TO THE TERMINALS PER UL 486 A & B SHOWN BELOW.

WIRE AWG	MAX AMPERE RATING
22	-
20	-
18	-
16	-
14	15
12	20
10	30
8	50
6	65
4	85
2	115
1	130
1/0	150
2/0	175
3/0	200

4.3 TEMPERATURE

- A. OPERATING - 105C (221F)

5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Temperature Rise as a result of Current Cycling*	The Test Specimens shall complete 500 cycles of equal current on and off (1 hr ea.) at the current levels noted in Table 7 for 75C*.	Temperature Rise must not exceed 125C over Ambient

REVISION: A	EGR/ECN INFORMATION: EC No: WNA2008-0003 DATE: 2007 / 12 / 17	TITLE: INSULKRIMP RING AND SPADE TERMINALS	SHEET No. 2 of 3
DOCUMENT NUMBER: PS-19902-009	CREATED / REVISED BY: R. DEROSS	CHECKED BY: E. THRODAHL	APPROVED BY: J. MACNEIL



PRODUCT SPECIFICATION

2	Static Heating Sequence - Static Heating*	The Test Samples must carry continuous current as noted in Table 7* until stabilization.	Temperature Rise must not exceed 50C over Ambient
3	Static Heating Sequence - Secureness*	The Test Samples, with correct conductor length, are fastened thru a bushing, at the height indicated and with a mass suspended from the free end per Table 26*.	The Test Samples must be intact at the transition area after 30 minutes.
4	Static Heating Sequence – Pullout*	The Test Samples from Secureness Test are subjected to a Direct Axial Pull with a Force Applied per Table 27*	The Test Samples must withstand Table 27* Force applied for 1 minute

5.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
5	Wire Pullout Force* (Axial)	Test Samples Crimped to Min/Max wire awg are subjected to an axial pullout force on the wire at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute.	The Test Samples must withstand Table 27* Force applied for 1 minute

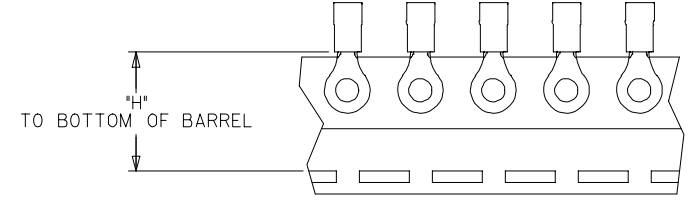
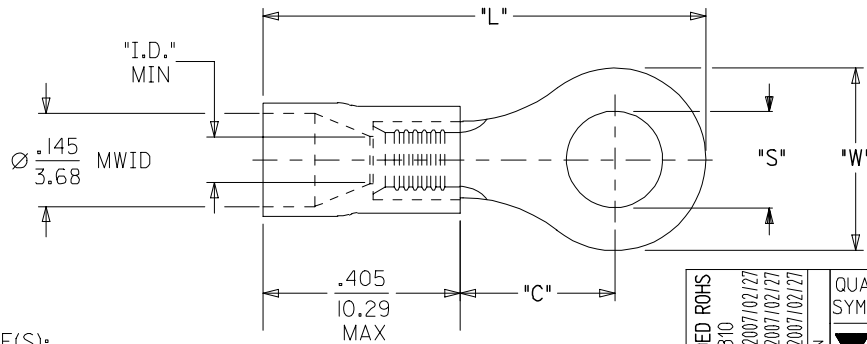
* See UL Standard 486A & B for Test Descriptions and Table information

6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

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10		9		8		7		6		5		4		3		2		19070		
LOOSE PIECE				TAPE MOUNTED				SPECIFICATIONS												
MATERIAL NUMBER	ALTERNATE NUMBER	MATERIAL NUMBER	ALTERNATE NUMBER	STUD SIZE	"S" ±.005/(0.13)	"W" MAX.	"C" MIN.	"L" MAX.	"ID" MIN.	STOCK THICKNESS REFERENCE	"H" ±.020/-.051									
F	I90700005	AA-220-02X	I90700006	AA-220-02XT	2	.094/(2.39)	.235/(6.00)	.157/(3.99)	.709/(18.01)	.062/(1.57)	.028/(0.71)									
	I90700007	AA-220-04X	I90700008	AA-220-04XT	4	.119/(3.02)														
	I90700009	AA-220-06X	I90700010	AA-220-06XT	6	.146/(3.71)														
	I90700011	AA-221-06X	I90700012	AA-221-06XT	6	.146/(3.71)	.322/(8.18)	.270/(6.86)	.866/(22.00)	.062/(1.57)	.028/(0.71)									
	I90700013	AA-221-08X	I90700014	AA-221-08XT	8	.173/(4.39)														
	I90700015	AA-221-10X	I90700017	AA-221-10XT	10	.198/(5.03)														
	I90700019	AA-221-209X	I90700020	AA-221-209XT	209	.209/(5.18)														
E	I90700021	AA-222-10X	I90700022	AA-222-10T	10	.198/(5.03)	.477/(12.11)	.386/(9.80)	1.060/(26.92)	.062/(1.57)	.028/(0.71)									
	I90700023	AA-222-14X	I90700024	AA-222-14XT	14	.265/(6.73)														
	I90700026	AA-222-56X	I90700027	AA-222-56XT	56	.328/(8.33)														
	I90700029	AA-226-10X	I90700030	AA-226-10XT	10	.198/(5.03)	.544/(13.82)	.552/(14.02)	1.259/(31.98)	.055/(1.40)	.031/(0.79)									
	I90700031	AA-226-14X	I90700032	AA-226-14XT	14	.265/(6.73)														
	I90700036	AA-226-56X	I90700037	AA-226-56XT	56	.328/(8.33)														
	I90700033	AA-226-38X	I90700035	AA-226-38XT	38	.390/(9.91)														
D	I90700038	AA-232-04X	I90700039	AA-232-04XT	4	.119/(3.02)	.264/(6.70)	.240/(6.10)	.807/(20.50)	.062/(1.57)	.028/(0.71)									
	I90700040	AA-232-06X	I90700042	AA-232-06XT	6	.146/(3.71)														
	I90700044	AA-232-08X	I90700045	AA-232-08XT	8	.173/(4.39)														
	I90700051	AA-233-10X	I90700052	AA-233-10XT	10	.198/(5.03)	.283/(7.20)	.240/(6.10)	.816/(20.73)	.062/(1.57)	.028/(0.71)	.980/(24.89)								
	I90700001	AA-2111-02X	I90700002	AA-2111-02XT	2	.094/(2.39)	.197/(5.00)	.173/(4.40)	.715/(18.16)	.055/(1.40)	.031/(0.79)									
	I90700003	AA-2111-04X	I90700004	AA-2111-04XT	4	.119/(3.02)														



SALES DRAWING

- NOTE(S):
 1. MATERIAL: COPPER
 PLATING: ELECTROPLATE TIN
 2. FERRULE: TIN-PLATED BRASS
 3. INSULATION: RED MOLDED PVC
 4. MWID=MAXIMUM WIRE INSULATION DIA.
 5. ALL DIMENSIONS IN INCHES (MM).
 6. ASSEMBLY IS ROHS COMPLIANT.

173 WAS 146 & ADDED ROHS	DESCRIPTION
EC NO: ETC2007-0310	DRW: NEHLE 2007/02/27
CHKD: JMAGNELL	APPR: JMAGNELL 2007/02/27
REV	

QUALITY SYMBOLS	DESCRIPTION
▽=0	
▽=0	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
PLACES	TOLERANCE
4 PLACES	± .005
3 PLACES	± .004
2 PLACES	± .003
1 PLACE	± .002
ANGULAR ± .005°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
IN/MM	
DRAWN BY	DATE
DMYRICK	2005/7/22
CHECKED BY	DATE
HBEITZEL	2005/7/22
APPROVED BY	DATE
RDEROSS	2005/7/22
MATERIAL NO.	
SEE CHART	
SIZE	B

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
---	INCH	☉
TITLE		
RING TONGUE TERMINAL		
KRIMP TITE, 200-SERIES		
22-18 AWG		
MOLEX INCORPORATED		
DOCUMENT NO.	SHEET NO.	
SD-19070-003	1 OF 1	
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