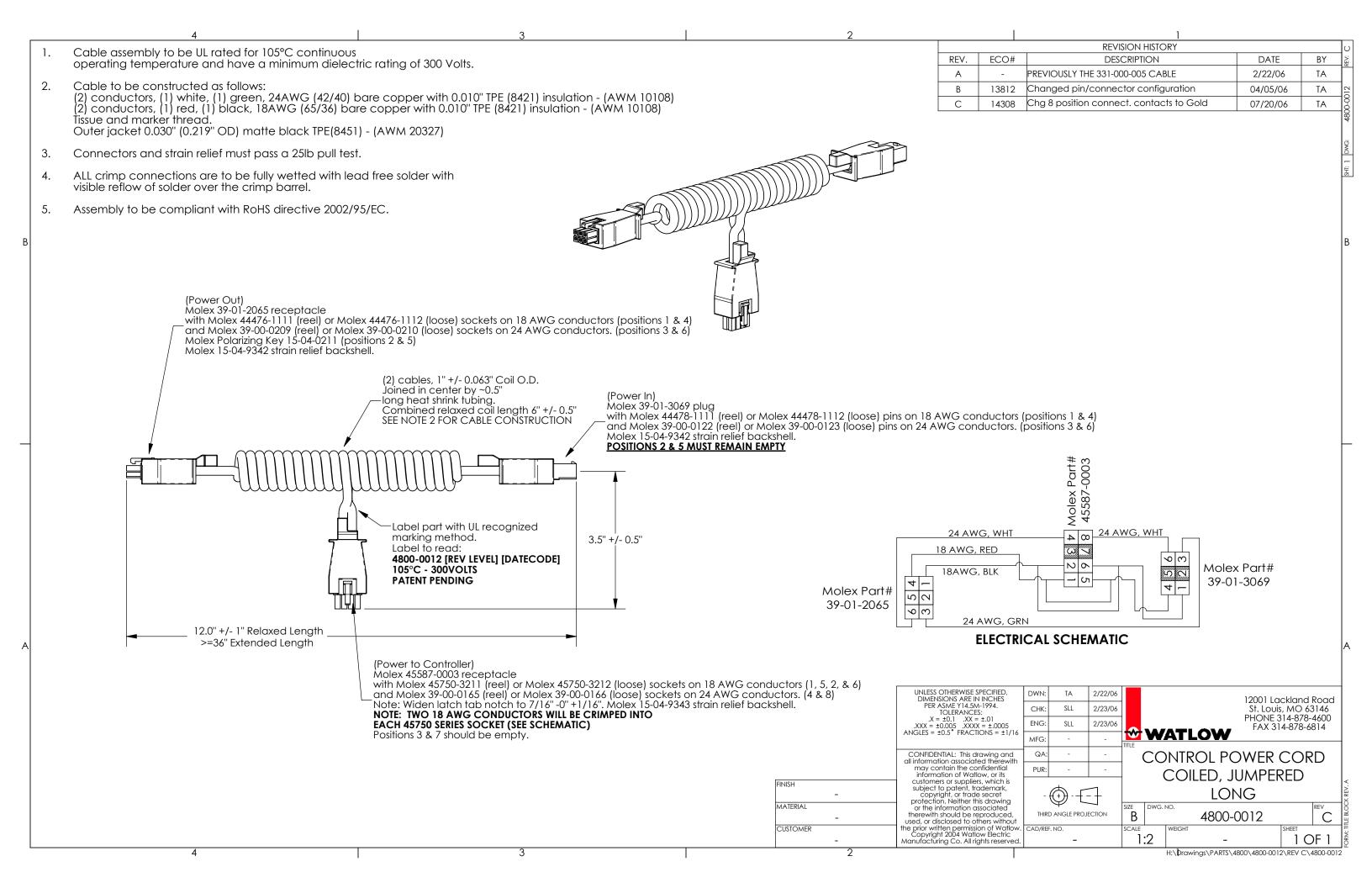
Cable assembly to be UL rated for 105°C continuous REV. ECO# **DESCRIPTION** DATE ΒY operating temperature and have a minimum dielectric rating of 300 Volts. Α INITIAL RELEASE 6/28/06 TΑ В 14308 Chg 8 position connect. contacts to Gold 07/21/06 TΑ Cable to be constructed as follows: (2) conductors, (1) white, (1) green, 24AWG (42/40) bare copper with 0.010" TPE (8421) insulation - (AWM 10108) (2) conductors, (1) red, (1) black, 18AWG (65/36) bare copper with 0.010" TPE (8421) insulation - (AWM 10108) Tissue and marker thread. Outer jacket 0.030" (0.219" OD) matte black TPE(8451) - (AWM 20327) Note: White & Green leads should be trimmed at edge of outer jacket on non-connector end. Connectors and strain relief must pass a 25lb pull test. ALL crimp connections are to be fully wetted with lead free solder with visible reflow of solder over the crimp barrel. Assembly to be compliant with RoHS directive 2002/95/EC. -Label part with UL recognized marking method. Label to read: 331-000-016 [REV LEVEL] [DATE CODE] 24 AWG, GRN 105°C - 300VOLTS PATENT PENDING 24 AWG, WHT Strip outer jacket 1.5" from end 18 AWG, RED Strip Black & Red leads .5" Tin leads with RoHS compliant solder. Molex Part# 00 4 18 AWG, BLK 45587-0003 (1) cable SEE NOTE 2 FOR CABLE CONSTRUCTION **ELECTRICAL SCHEMATIC** 72.0" +/- 0.5" (Power to Controller) -Molex 45587-0003 receptacle NOTE: LOCATION 1 & 2 WILL HAVE TWO 18 AWG CONDUCTORS CRIMPED INTO A SINGLE SOCKET Molex 45750-3211 (reel) or Molex 45750-3212 (loose) sockets on double 18 AWG conductors, with Molex 44476-1211 (reel) or Molex 44476-1212 (loose) sockets on single 18 AWG conductors, and Molex 39-00-0165 (reel) or Molex 39-00-0166 (loose) sockets on 24 AWG conductors. Note: Widen latch tab notch to 7/16" -0" +1/16". Molex 15-04-9343 strain relief backshell. Positions 3 & 7 should be empty. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES PER ASME Y14.5M-1994. DWN: TΑ 6/28/06 12001 Lackland Road St. Louis, MO 63146 PHONE 314-878-4600 FAX 314-878-6814 EJ 6/28/06 CHK: TOLERANCES: .X = ±0.1 .XX = ±.01 .XXX = ±0.005 .XXXX = ±.0005 ANGLES = ±0.5° FRACTIONS = ±1/1 ENG: 6/28/06 EJ **WATLOW** MFG: CONFIDENTIAL: This drawing and all information associated therewith may contain the confidential CONTROL POWER CORD may contain the continential information of Watlow, or its customers or suppliers, which is subject to patent, trademark, copyright, or trade secret protection. Neither this drawing or the information associated therewith should be reproduced, used or disclosed to others without TO EHG, STRAIGHT - 72" FINISH MATERIAL DWG. NO. THIRD ANGLE PROJECTION В 331-000-016 В used, or disclosed to others withou Copyright 2004 Watlow Electric

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**REVISION HISTORY** Cable assembly to be UL rated for 105°C continuous REV. ECO# **DESCRIPTION** DATE BY operating temperature and have a minimum dielectric rating of 300 Volts. PREVIOUSLY THE 331-000-007 CABLE 2/22/06 TΑ Α Cable to be constructed as follows: В 13812 04/05/06 Changed pin/ connector configuration TΑ (2) conductors, (1) white, (1) green, 24AWG (42/40) bare copper with 0.010" TPE (8421) insulation - (AWM 10108) (2) conductors, (1) red, (1) black, 18AWG (65/36) bare copper with 0.010" TPE (8421) insulation - (AWM 10108) С 14308 Cha 8 position connect, contacts to Gold 07/20/06 TΑ Tissue and marker thread. Outer jacket 0.030" (0.219" OD) matte black TPE(8451) - (AWM 20327) Connectors and strain relief must pass a 25lb pull test. ALL crimp connections are to be fully wetted with lead free solder with visible reflow of solder over the crimp barrel. Assembly to be compliant with RoHS directive 2002/95/EC. (Power Out) Molex 39-01-2065 receptacle with Molex 44476-1111 (reel) or Molex 44476-1112 (loose) sockets on 18 AWG conductors (positions 1 & 4) and Molex 39-00-0209 (reel) or Molex 39-00-0210 (loose) sockets on 24 AWG conductors. (positions 3 & 6) Molex Polarizing Key 15-04-0211 (positions 2 & 5) Molex 15-04-9342 strain relief backshell. (2) cables, 1" +/- 0.063" Coil O.D. Joined in center by ~0.5" 24 AWG, WHT 24 AWG, WHT 04 long heat shrink tubing. 18 AWG, RED Combined relaxed coil length 1.5" +/- 0.5" 9 8 SEE NOTE 2 FOR CABLE CONSTRUCTION 200 Molex Part# 18AWG, BLK 1 5 39-01-3069 4|-Molex Part# 2 2 39-01-2065 3 6 24 AWG, GRN Power In Molex 39-01-3069 plug with Molex 44478-1111 (reel) or Molex 44478-1112 (loose) pins on 18 AWG conductors (positions 1 & 4) **ELECTRICAL SCHEMATIC** and Molex 39-00-0122 (reel) or Molex 39-00-0123 (loose) pins on 24 AWG conductors. (positions 3 & 6) Molex 15-04-9342 strain relief backshell. POSITIONS 2 & 5 MUST REMAIN EMPTY. 3.5" +/- 0.5" 7.0" +/- 1" Relaxed Length Label part with UL recognized marking method. Label to read: 4800-0011 [REV LEVEL] [DATE CODE] UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES PER ASME Y14.5M-1994. DWN: TΑ 2/22/06 12001 Lackland Road 105°C - 300VOLTS St. Louis, MO 63146 PHONE 314-878-4600 SLL 2/23/06 CHK: TOLERANCES: .X = ±0.1 .XX = ±.01 .XXX = ±0.005 .XXXX = ±.0005 ANGLES = ±0.5° FRACTIONS = ±1/1 PATENT PENDING ENG: SLL 2/23/06 FAX 314-878-6814 (Power to Controller) **WATLOW** Molex 45587-0003 receptacle MEG with Molex 45750-3211 (reel) or Molex 45750-3212 (loose) sockets on 18 AWG conductors (positions 1, 5, 2, & 6) and Molex 39-00-0165 (reel) or Molex 39-00-0166 (loose) sockets on 24 AWG conductors. (4 & 8) Note: Widen latch tab notch to 7/16" -0" +1/16". Molex 15-04-9343 strain relief backshell. CONFIDENTIAL: This drawing and all information associated therewith CONTROL POWER CORD may contain the confidential COILED, JUMPERED information of Watlow, or its customers or suppliers, which is subject to patent, trademark, NOTE: TWO 18 AWG CONDUCTORS WILL BE CRIMPED INTO EACH 45750 SERIES SOCKET (SEE SCHEMATIC) **SHORT** copyright, or trade secret protection. Neither this drawing or the information associated therewith should be reproduced, Positions 3 & 7 should be empty. MATERIAL DWG. NO THIRD ANGLE PROJECTION В 4800-0011 С used, or disclosed to others withou Copyright 2004 Watlow Electric

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**REVISION HISTORY** Cable assembly to be UL rated for 105°C continuous REV. ECO# DESCRIPTION DATE ΒY operating temperature and have a minimum dielectric rating of 300 Volts. PREVIOUSLY THE 331-000-008 CABLE 2/22/06 TΑ Α В 13812 Changed pin/ connector configuration 04/05/06 Cable to be constructed as follows: TΑ (2) conductors, (1) white, (1) green, 24AWG (42/40) bare copper with 0.010" TPE (8421) insulation - (AWM 10108) (2) conductors, (1) red, (1) black, 18AWG (65/36) bare copper with 0.010" TPE (8421) insulation - (AWM 10108) С 14308 Chg 8 position connect. contacts to Gold 07/20/06 TΑ Tissue and marker thread. Outer jacket 0.030" (0.219" OD) matte black TPE(8451) - (AWM 20327) Connectors and strain relief must pass a 25lb pull test. ALL crimp connections are to be fully wetted with lead free solder with visible reflow of solder over the crimp barrel. Assembly to be compliant with RoHS directive 2002/95/EC. (Power In)
Molex 39-01-3069 plug
with Molex 44478-1111 (reel) or Molex 44478-1112 (loose) pins on 18 AWG conductors (positions 1 & 4) and Molex 39-00-0122 (reel) or Molex 39-00-0123 (loose) pins on 24 AWG conductors. (positions 3 & 6) Molex 15-04-9342 strain relief backshell. POSITIONS 2 & 5 MUST REMAIN EMPTY. Molex I 45587-(1) cable, 1" +/- 0.063" Coil O.D. 24 AWG, WHT -Relaxed coil length 0.75" +/- 0.25" SEE NOTE 2 FOR CABLE CONSTRUCTION 18 AWG, RED 18AWG, BLK Molex Part# 100 39-01-3069 15 9 8 24 AWG, GRN 3.5" +/- 0.5" Label part with UL recognized **ELECTRICAL SCHEMATIC** marking method. Label to read: 4800-0021 [REV LEVEL] [DATE CODE] 105°C - 300VOLTS PATENT PENDING (Power to Controller) Molex 45587-0003 receptacle 3.5'' + /- 0.5'' relaxed length -NOTE: LOCATION 1 & 2 WILL HAVE TWO 18 AWG CONDUCTORS CRIMPED INTO A SINGLE SOCKET Molex 45750-3211 (reel) or Molex 45750-3212 (loose) sockets on double 18 AWG conductors, with Molex 44476-1211 (reel) or Molex 44476-1212 (loose) sockets on single 18 AWG conductors, and Molex 39-00-0165 (reel) or Molex 39-00-0166 (loose) sockets on 24 AWG conductors. Note: Widen latch tab notch to 7/16" -0" +1/16". Molex 15-04-9343 strain relief backshell. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES PER ASME Y14.5M-1994. DWN: TΑ 2/22/06 Positions 3 & 7 should be empty. 12001 Lackland Road St. Louis, MO 63146 PHONE 314-878-4600 SLL 2/23/06 CHK: TOLERANCES: .X = ±0.1 .XX = ±.01 .XXX = ±0.005 .XXXX = ±.0005 ANGLES = ±0.5° FRACTIONS = ±1/1 ENG: SLL 2/23/06 FAX 314-878-6814 **WATLOW** MFG: CONFIDENTIAL: This drawing and all information associated therewith may contain the confidential CONTROL POWER CORD COILED, TERMINATED may contain the continential information of Watlow, or its customers or suppliers, which is subject to patent, trademark, copyright, or trade secret protection. Neither this drawing or the information associated therewith should be reproduced, used or disclosed to others without FINISH **SHORT** MATERIAL DWG. NO. THIRD ANGLE PROJECTION В 4800-0021 С used, or disclosed to others withou Copyright 2004 Watlow Electric

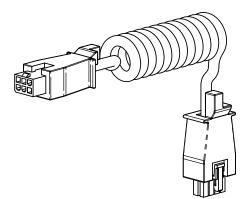
Manufacturing Co. All rights reserved. CUSTOMER 1 OF 1 H:\Drawings\PARTS\4800\4800-0021\REV C\4800-0021 Cable assembly to be UL rated for 105°C continuous operating temperature and have a minimum dielectric rating of 300 Volts. Cable to be constructed as follows: (2) conductors, (1) white, (1) green, 24AWG (42/40) bare copper with 0.010" TPE (8421) insulation - (AWM 10108) (2) conductors, (1) red, (1) black, 18AWG (65/36) bare copper with 0.010" TPE (8421) insulation - (AWM 10108) Tissue and marker thread. Outer jacket 0.030" (0.219" OD) matte black TPE(8451) - (AWM 20327) Connectors and strain relief must pass a 25lb pull test.

ALL crimp connections are to be fully wetted with lead free solder with

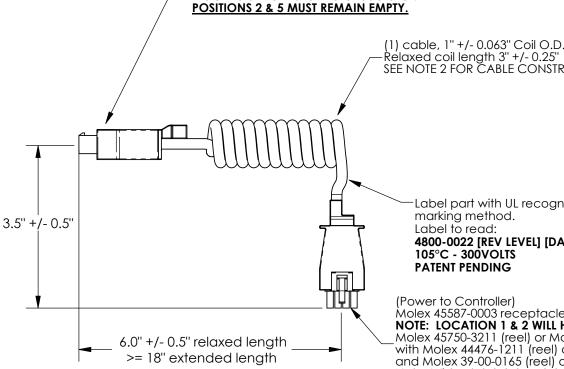
Assembly to be compliant with RoHS directive 2002/95/EC.

visible reflow of solder over the crimp barrel.

REV. ECO# DESCRIPTION DATE ΒY PREVIOUSLY THE 331-000-006 CABLE 2/22/06 TΑ Α В Changed pin/ connector configuration 04/05/06 13812 TΑ С 14308 TΑ Chg 8 position connect. contacts to Gold 07/21/06



(Power In) Molex 39-01-3069 plug with Molex 44478-1111 (reel) or Molex 44478-1112 (loose) pins on 18 AWG conductors (positions 1 & 4) and Molex 39-00-0122 (reel) or Molex 39-00-0123 (loose) pins on 24 AWG conductors. (positions 3 & 6) Molex 15-04-9342 strain relief backshell.



-Relaxed coil length 3" +/- 0.25" SEE NOTE 2 FOR CABLE CONSTRUCTION

Label part with UL recognized marking method. Label to read:

4800-0022 [REV LEVEL] [DATE CODE] 105°C - 300VOLTS

(Power to Controller) Molex 45587-0003 receptacle

NOTE: LOCATION 1 & 2 WILL HAVE TWO 18 AWG CONDUCTORS CRIMPED INTO A SINGLE SOCKET Molex 45750-3211 (reel) or Molex 45750-3212 (loose) sockets on double 18 AWG conductors, with Molex 44476-1211 (reel) or Molex 44476-1212 (loose) sockets on single 18 AWG conductors, and Molex 39-00-0165 (reel) or Molex 39-00-0166 (loose) sockets on 24 AWG conductors. Note: Widen latch tab notch to 7/16" -0" +1/16". Molex 15-04-9343 strain relief backshell. Positions 3 & 7 should be empty.

FINISH

Molex I 45587-24 AWG, WHT 18 AWG, RED 0 4 18AWG, BLK Molex Part# 100 22.62 39-01-3069 15 9 8 24 AWG, GRN **ELECTRICAL SCHEMATIC** 

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES PER ASME Y14.5M-1994. DWN: TΑ 2/22/06 SLL 2/23/06 CHK: TOLERANCES: .X = ±0.1 .XX = ±.01 .XXX = ±0.005 .XXXX = ±.0005 ANGLES = ±0.5° FRACTIONS = ±1/1 ENG: SLL 2/23/06 MFG: CONFIDENTIAL: This drawing and all information associated therewith may contain the confidential

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CONTROL POWER CORD COILED, TERMINATED LONG

DWG. NO. THIRD ANGLE PROJECTION В

4800-0022 С 1 OF 1

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