1. Cable assembly to be UL rated for 105°C continuous operating temperature and have a minimum dielectric rating of 300 Volts.

2. Cable to be constructed as follows:
   - (2) conductors, (1) white, (1) green, 24AWG (42/40) bare copper with 0.010" TFE [8421] insulation - (AWM 10108)
   - (2) conductors, (1) red, (1) black, 18AWG (65/36) bare copper with 0.010" TFE [8421] insulation - (AWM 10108)

   Outer jacket: 0.030" (0.219" OD) matte black TPE [8451] - (AWM 20327)

   Tissue and marker thread. Outer jacket should be trimmed at edge of outer jacket on non-connector end.

   Connectors and strain relief must pass a 25lb pull test.

3. All crimp connections are to be fully wetted with lead free solder with visible reflow of solder over the crimp barrel.

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

5. Label part with UL recognized marking method. Label to read:
   331-000-016 [REV LEVEL] [DATE CODE] 105°C - 300VOLTS PATENT PENDING

NOTE: LOCATION 1 & 2 WILL HAVE TWO 18 AWG CONDUCTORS CRIMPED INTO A SINGLE SOCKET
Molex 45750-0011 (reel) or Molex 45750-0012 (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.

[Diagram showing cable assembly and connectors]
1. Cable assembly to be UL rated for 105°C continuous operating temperature and have a minimum dielectric rating of 300 Volts.

2. 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)

3. Connectors and strain relief must pass a 25lb pull test.

4. ALL crimp connections are to be fully wetted with lead free solder with visible reflow of solder over the crimp barrel.

5. Assembly to be compliant with RoHS directive 2002/95/EC.
1. Cable assembly to be UL rated for 105°C continuous operating temperature and have a minimum dielectric rating of 300 Volts.

2. 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)
   and [1] black, 18AWG (65/36) bare copper with 0.010" TPE (8421) insulation - (AWM 10108)

Tissues and marker thread. Outer jacket 0.330" (0.219" OD) matte black TPE(8451) - (AWM 20327)

3. Connectors and strain relief must pass a 25lb pull test.

4. ALL crimp connections are to be fully wetted with lead free solder with visible reflow of solder over the crimp bart.

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

(Power Out)
Molex 39-01-2065 receptacle
with Molex 44476-1111 (loose) or Molex 44476-1112 (loose) sockets on 18 AWG conductors (positions 1 & 4)
and Molex 39-00-0209 (loose) sockets on 24 AWG conductors. (positions 3 & 6)
Molex Paling Key 15-04-0211 (positions 2 & 5)
Molex 15-04-9342 strain relief backshell.

SEE NOTE 2 FOR CABLE CONSTRUCTION

(Power In)
Molex 39-01-3069 plug
with Molex 44476-1111 (loose) or Molex 44476-1112 (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

Label part with UL recognized marking method. Label to read:
4800-0012 [REV LEVEL] [DATECODE] 105°C - 300VOLTS PATENT PENDING

(Power to Controller)
Molex 45587-0003 receptacle
with Molex 45750-3211 (reel) or Molex 45750-3212 (loose) sockets on 18 AWG conductors (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.

NOTE: TWO 18 AWG CONDUCTORS WILL BE CRIMPED INTO EACH 45750 SERIES SOCKET (SEE SCHEMATIC)

Positions 3 & 7 should be empty.

CONTROL POWER CORD
COILED, JUMPERED, LONG

UNLESS OTHERWISE SPECIFIED, CHASSIS ARE TO BE MACHINED FROM TYPE 304 STAINLESS STEEL.

MATERIAL - -
MANUFACTURER - -
DRAWN BY - -
DRAWN NO. 4800-0012
DATE 02/06/06
SDA - -
SPE - -
PAGE 1 OF 1

CONSULTANT 3/9/06
ENGINEER 3/9/06
DRAFTSMAN 3/9/06
ST. LOUIS, MO 63146
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1. Cable assembly to be UL rated for 105°C continuous operating temperature and have a minimum dielectric rating of 300 Volts.

2. 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]

3. Connectors and strain relief must pass a 25lb pull test.
4. ALL crimp connections are to be fully wetted with lead free solder with visible reflow over the crimp barrel.
5. Assembly to be compliant with RoHS directive 2002/95/EC.

(Cable assembly) Molex 39-01-3069 plug
with Molex 44478-1111 [reel] or Molex 4478-1112 [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.

(Cable assembly) Molex 45587-0003 receptacle

(Diagram) ELECTRICAL SCHEMATIC

(Power In) Molex 39-01-3069 plug
with Molex 44478-1111 [reel] or Molex 4478-1112 [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.

Note: Widen latch tab notch to 7/16" -0" +1/16". Molex 15-04-9343 strain relief backshell.

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,
Tissue and marker thread. Outer jacket 0.030" (0.219" OD) matte black TPE[8451] - [AWM 20327]

Label part with UL recognized marking method. Label to read:
4800-0021 [REV LEVEL] [DATE CODE] 105°C - 300VOLTS PATENT PENDING
1. Cable assembly to be UL rated for 105°C continuous operating temperature and have a minimum dielectric rating of 300 Volts.

2. 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)

3. Connectors and strain relief must pass a 25lb pull test.

4. ALL crimp connections are to be fully wetted with lead free solder with visible reflow of solder over the crimp barrel.

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