

| REVISIONS | | | | |
|-----------|------|-------------|------|-------|
| REV. | ZONE | DESCRIPTION | DATE | DRAWN |
| | | | | |

CONNECTOR 25 PIN D MALE AMP #745496-2 (ECK00786)
BACKSHELL #17-1726-2 (ECK00656)

682A1031 (ECX00445)
#24 AWG UNLESS OTHERWISE NOTED

| PIN | WIRE | SIGNAL |
|-----|-------------|-----------|
| 13 | ORN | BRK- |
| 12 | WHT | GW/+ LMT |
| 11 | - | - |
| 10 | - | - |
| 9 | - | - |
| 8 | - | - |
| 7 | BRN | MKR |
| 6 | BLK | MKR-N |
| 5 | - | - |
| 4 | - | - |
| 3 | #22 WHT/BRN | ENC +5V |
| 2 | - | - |
| 1 | #22 GRN/YEL | SIG SHLD |
| 14 | WHT/RED | COS |
| 15 | VIO | COS-N |
| 18 | #22 WHT/BLU | LMT +5V |
| 17 | GRN | SIN |
| 18 | RED | SIN-N |
| 19 | - | - |
| 20 | #22 WHT/GRN | LMT COM |
| 21 | #22 WHT/YEL | ENC COM |
| 22 | PINK | HM LMT |
| 23 | - | - |
| 24 | GRY | CCW/- LMT |
| 25 | BLU | BRK+ |

UNUSED WIRES:
#24 YEL,
WHT/VIO, WHT/BLK

| PIN | WIRE | BIPOLAR | UNIPOLAR |
|--------|-----------|---------|----------|
| 5(1/2) | #20 GRN | FRM GND | FRM GND |
| 5(2/2) | #22 G/YEL | SHIELD | SHIELD |
| 4 | - | - | - |
| 3(1/2) | #20 RED | MTR A-N | MTR A' |
| 3(2/2) | #20 WHT | MTR B-N | MTR BCT |
| 2 | #20 YEL | MTR B | MTR B |
| 1 | #20 BRN | MTR A | MTR ACT |

UNUSED WIRES:
#20 BLU,
#20 ORN

5 PIN MALE HIGH PWR "D", ITT IBM5W5PK87 (ECK01236)
PINS, TRW DM53745-7 (ECK00660) QTY. 5
BACKSHELL #17-1726-2 (ECK00656)

682A1031 (ECX00445)
#24 AWG UNLESS OTHERWISE NOTED

| SIGNAL | WIRE | PIN |
|-----------|-------------|-------------|
| SIN-N | RED | H |
| BRK+ | BLU | J |
| SIN | GRN | C |
| - | - | K |
| HM LMT | PINK | W |
| CCW/- LMT | GRY | V |
| GW/+LMT | WHT | U |
| COS-N | VIO | F |
| MKR | BRN | L |
| MKR-N | BLK | X |
| SIG SHLD | #22 GRN/YEL | Z |
| BRK- | ORN | T |
| COS | WHT/RED | E |
| ENC +5V | #22 WHT/BRN | M(1/2) |
| LMT +5V | #22 WHT/BLU | M(2/2) |
| NTR SHLD | #22 GRN/YEL | Y |
| MTR A | MTR ACT | #20 BRN R * |
| FRM GND | FRM GND | #20 GRN S * |
| LMT COM | #22 WHT/GRN | DX(1/2) |
| ENC COM | #22 WHT/YEL | DX(2/2) |
| MTR B | MTR B | #20 YEL N * |
| - | - | P |
| MTR B-N | MTR BCT | #20 WHT A * |
| - | - | B |
| MTR A-N | NTR A' | #20 RED C * |

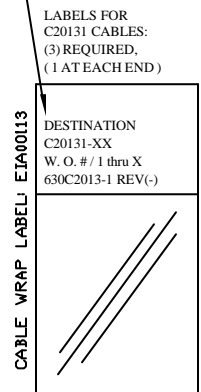
BIPOLAR UNIPOLAR

BURNDY PLUG #UTG618-23SN (ECK00135)
CLAMP BURNDY #UTG18AC (ECK00617)

#28-22 SOCKETS BURNDY #SC24M-1TK6 (ECK00402)
CRIMP TOOL: BURNDY HANDLE W/HEAD ASSY N20RT-29
OR BURNDY CRIMPER MODEL UTM-2R W/HEAD ASSY CM11G1R

* #20-16 SOCKETS BURNDY #SC16M-1TK6 (ECK00403)
CRIMP TOOL: BURNDY HANDLE V/HEAD ASSY N16RT-24

SEE LABELS 1, 2 & 3
FOR DESTINATION



2

USE 2" LENGTHS OF THICK WALL HEATSHRINK TUBING TO BUILD UP CABLE DIAMETER FOR PROPER STRAIN RELIEFING. STRAIN RELIEFING MUST WITHSTAND 35 LB. PULL.

CUT THICK WALL HEATSHRINK TUBING WITH CABLE CUTTER SUCH THAT ENDS ARE PERPENDICULAR TO CABLE AND CUT IS SMOOTH.

THICK WALL HEATSHRINK TUBING:
AMP # 53701-1 (EIW00112) MAX INSIDE DIA = .750" (EXPANDED), MIN INSIDE DIA = .220" (RECOVERED)
AMP # 53700-1 (EIW00113) MAX INSIDE DIA = .400" (EXPANDED), MIN INSIDE DIA = .150" (RECOVERED)

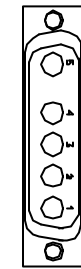
STARTING CABLE LENGTH = A.R. LENGTH + 6 IN.

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DETAIL "A"

AMP PLUG 745496-2 (ECK00786)
VIEWED FROM WIRE SIDE OF CONNECTOR



DETAIL "B"

HI POWER "D" 5-PIN MALE (ECK01236)
VIEWED FROM WIRE SIDE OF CONNECTOR



DETAIL "C"

BURNDY PLUG UTG618-23SN (ECK00135)
VIEWED FROM WIRE SIDE OF CONNECTOR

