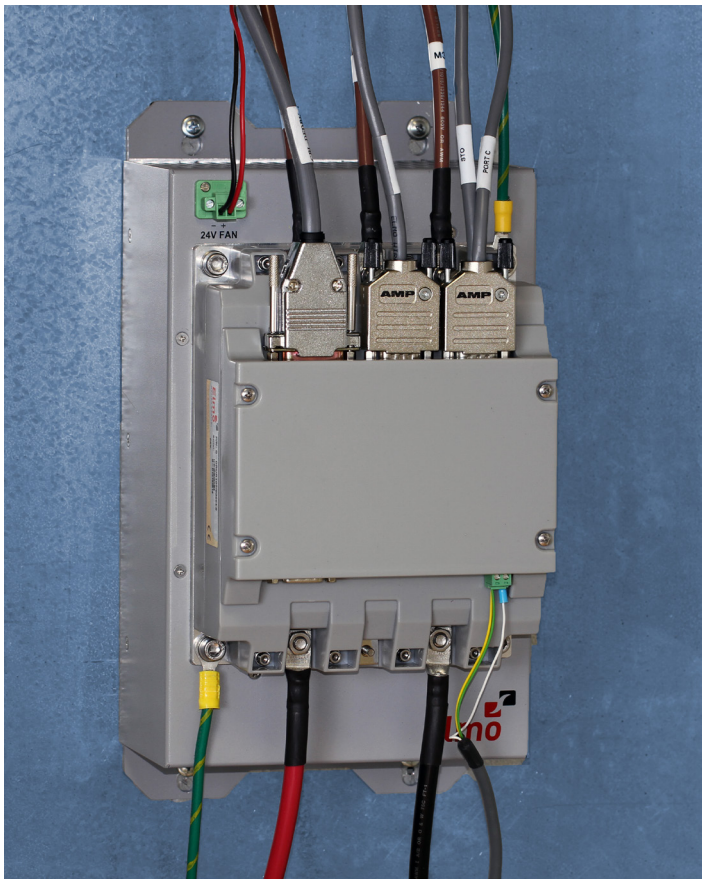
Gold Line

Gold Drum HV
Power Cable Kit



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Elmo
Motion Control

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P/N DRU-HVPOWKIT

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Table of Contents

Chapter 1: Introduction

This document provides the wiring details for the cables used to connect Elmo's Gold Drum HV Power Cable Kit servo drive with the end-user application. The servo drive-side pinouts are provided in Chapter 3 of the *Gold Drum HV Installation Guide*.

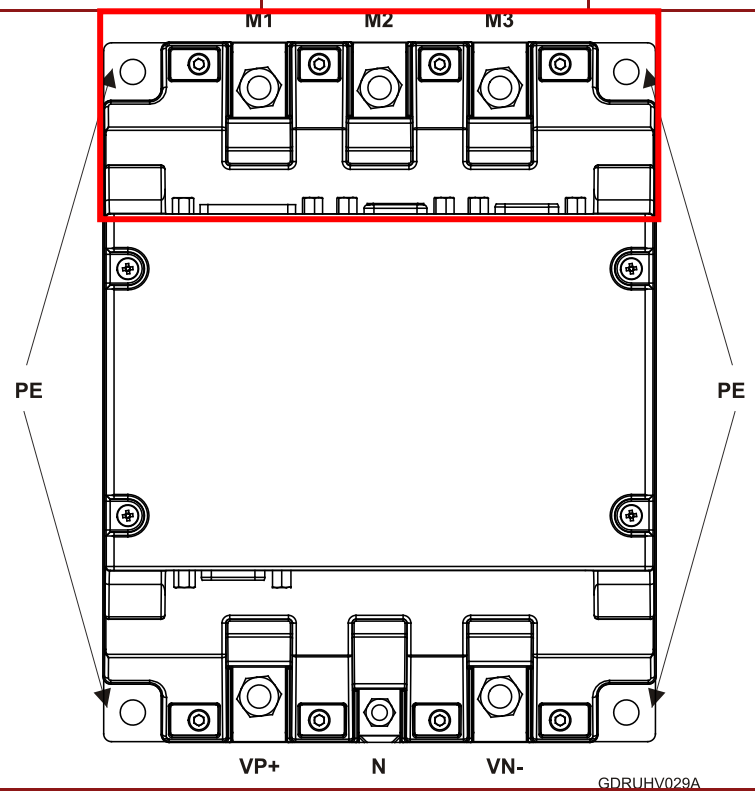
The cables come in one length: 2 meters (6 ½ feet).

Chapter 2: Motor Power Cables (CBL-MTRDRUM x 3 & CBL-PEDRUMOUT)

The Gold Drum HV Power Cable Kit receives power from main and auxiliary supplies and delivers power to the motor.

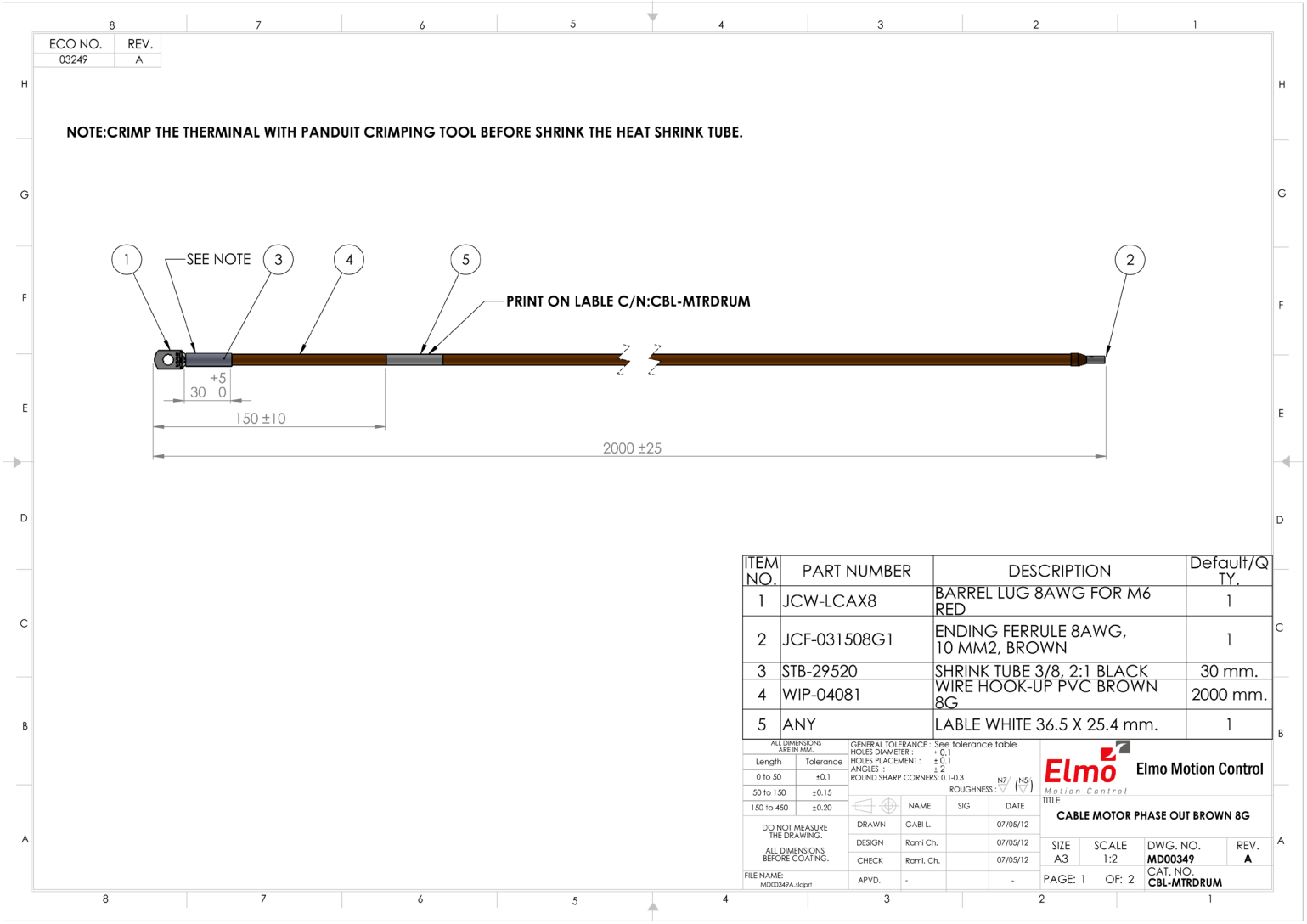
The general pinout connections for the Motor Power cable is as follows:

Pin	Function	Cables and P/N	
		Brushless Motor	**Brushed DC Motor**
M3	Motor phase	CABLE MOTOR PHASE OUT BROWN 8G **CBL-MTRDRUM**	CABLE MOTOR PHASE OUT BROWN 8G **CBL-MTRDRUM**
M2	Motor phase	CABLE MOTOR PHASE OUT BROWN 8G **CBL-MTRDRUM**	CABLE MOTOR PHASE OUT BROWN 8G **CBL-MTRDRUM**
M1	Motor phase	CABLE MOTOR PHASE OUT BROWN 8G **CBL-MTRDRUM**	N/C
PE	Protective Earth	CABLE MOTOR PE OUT YELLOW/GREEN 8G **CBL-PEDRUMOUT**	CABLE MOTOR PE OUT YELLOW/GREEN 8G **CBL-PEDRUMOUT**



The cables are connected as follows (refer to Figure 2 and Figure 3 for the cable details):

Figure 1: Motor Power Cable Ends



ITEM NO.	PART NUMBER	DESCRIPTION	Default/QTY.
1	JCW-LCAX8	BARREL LUG 8AWG FOR M6 RED	1
2	JCF-031508G1	ENDING FERRULE 8AWG, 10 MM2, BROWN	1
3	STB-29520	SHRINK TUBE 3/8, 2:1 BLACK	30 mm.
4	WIP-04081	WIRE HOOK-UP PVC BROWN 8G	2000 mm.
5	ANY	LABLE WHITE 36.5 X 25.4 mm.	1

ALL DIMENSIONS ARE IN MM.

Length	Tolerance
0 to 50	±0.1
50 to 150	±0.15
150 to 450	±0.20

DO NOT MEASURE THE DRAWING.
ALL DIMENSIONS BEFORE COATING.
FILE NAME: MD00349A.sldprt

GENERAL TOLERANCE : See tolerance table
HOLES DIAMETER : ± 0.1
HOLES PLACEMENT : ± 0.1
ANGLES : ± 2
ROUND SHARP CORNERS: 0.1-0.3
ROUGHNESS : N7 (N5)

	NAME	SIG	DATE
DRAWN	GABI L.		07/05/12
DESIGN	Rami Ch.		07/05/12
CHECK	Rami. Ch.		07/05/12
APVD.	-		-

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TITLE: CABLE MOTOR PHASE OUT BROWN 8G

SIZE	SCALE	DWG. NO.	REV.
A3	1:2	MD00349	A

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Figure 2: Motor Power Cable Drawing

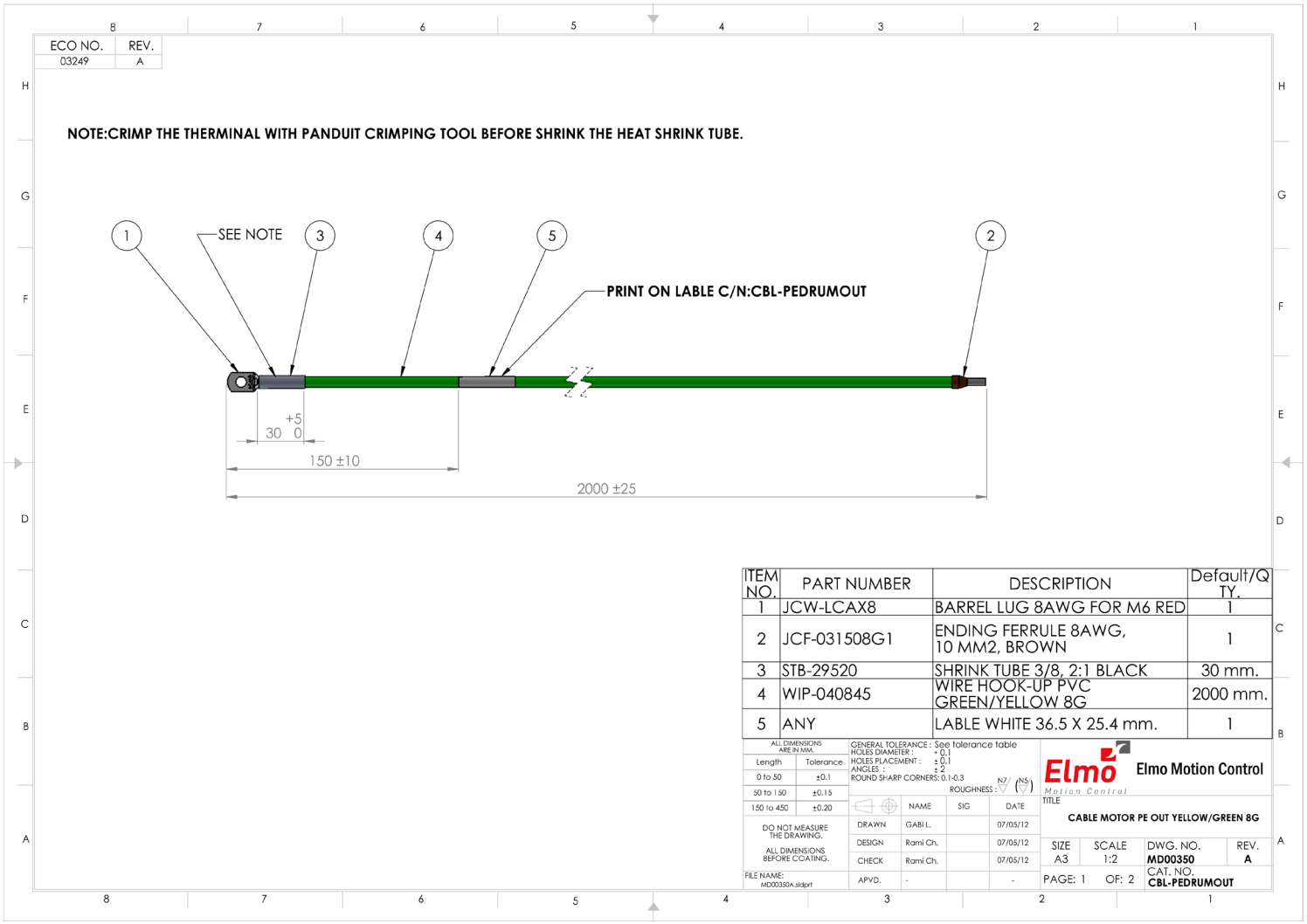
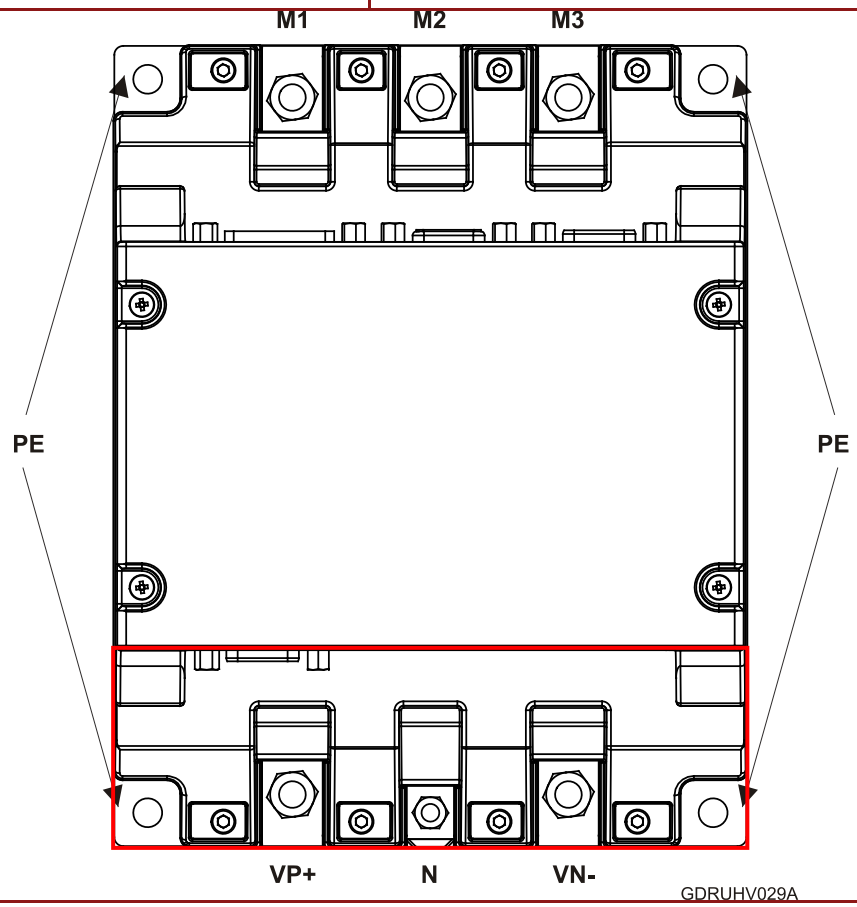


Figure 3: Motor Power PE Cable Drawing

Chapter 3: Main Power Cable (CBL-TAMSET)

The general pinout of the main power cable cable is as follows:

Pin	Function	Cable
PE	Protective Earth	CABLE MOTOR PE OUT YELLOW/GREEN 8G **CBL-PEDRUMOUT**
VN-	DC Negative Power input	CABLE TAM-100 POWER OUT BLACK 8G **CBL-TAMSET**
N	Not in use	Not in use
VP+	DC Positive Power input	CABLE TAM-100 POWER OUT RED 8G **CBL-TAMSET**



The cables are connected as follows:

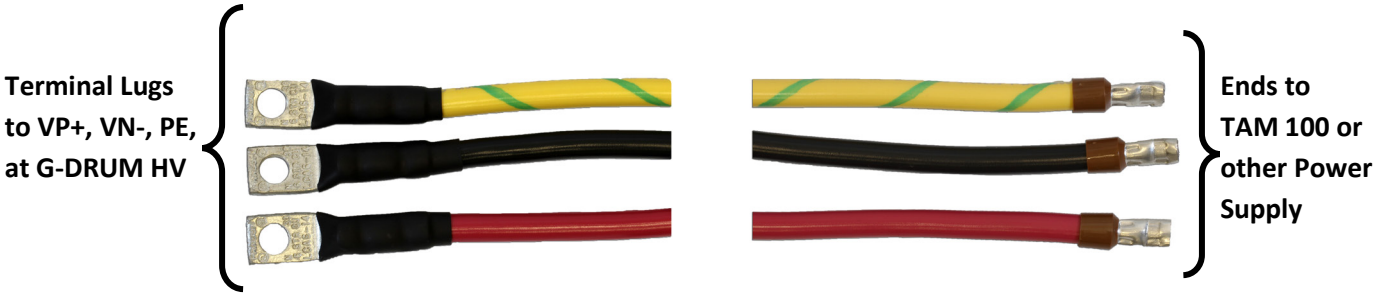
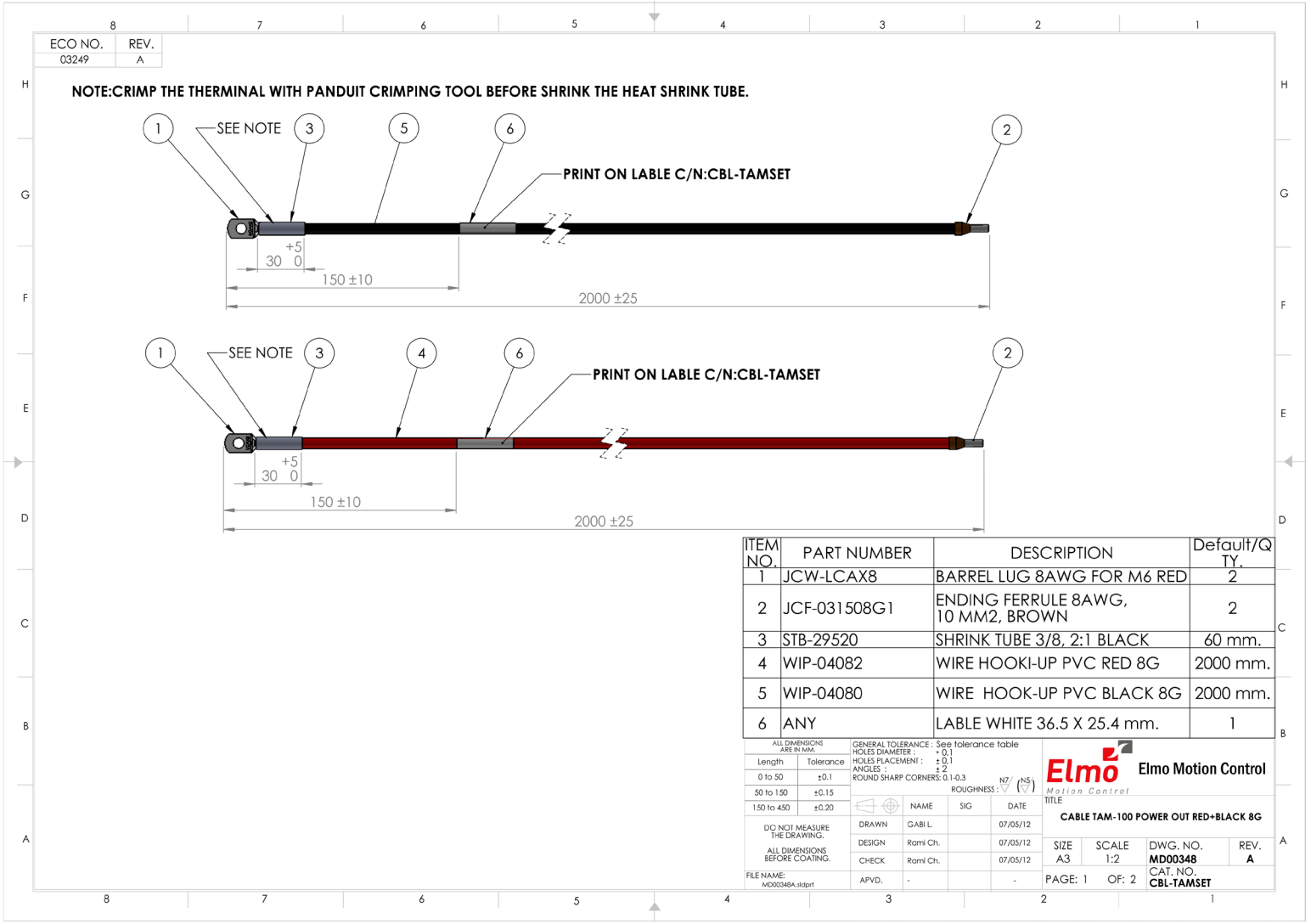


Figure 4: Main Power Cable Ends

Figure 5: Optional TAM 100 Output Connection
(Connector supplied with TAM 100)

Refer to Figure 5 for the VP+, and VN- cable details, and Figure 3 for the PE cable details.



ITEM NO.	PART NUMBER	DESCRIPTION	Default/QTY.
1	JCW-LCAX8	BARREL LUG 8AWG FOR M6 RED	2
2	JCF-031508G1	ENDING FERRULE 8AWG, 10 MM2, BROWN	2
3	STB-29520	SHRINK TUBE 3/8, 2:1 BLACK	60 mm.
4	WIP-04082	WIRE HOOKI-UP PVC RED 8G	2000 mm.
5	WIP-04080	WIRE HOOK-UP PVC BLACK 8G	2000 mm.
6	ANY	LABLE WHITE 36.5 X 25.4 mm.	1

ALL DIMENSIONS ARE IN MM.

Length	Tolerance
0 to 50	±0.1
50 to 150	±0.15
150 to 450	±0.20

DO NOT MEASURE THE DRAWING.
ALL DIMENSIONS BEFORE COATING.
FILE NAME: MD00348A.sldprt

GENERAL TOLERANCE : See tolerance table
HOLES DIAMETER : ± 0.1
HOLES PLACEMENT : ± 0.1
ANGLES : ± 2
ROUND SHARP CORNERS: 0.1-0.3
ROUGHNESS : N7 (N5)

	NAME	SIG	DATE
DRAWN	GABI L.		07/05/12
DESIGN	Rami Ch.		07/05/12
CHECK	Rami Ch.		07/05/12
APVD.	-		-

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TITLE
CABLE TAM-100 POWER OUT RED+BLACK 8G

SIZE	SCALE	DWG. NO.	REV.
A3	1:2	MD00348	A

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Figure 6: Main Power Cable Drawing