

MOTECH MOTOR CO., LTD

Product Name Hybrid Stepper Motor
MT-1701HSM140AE



Rev A

Made by

P.T

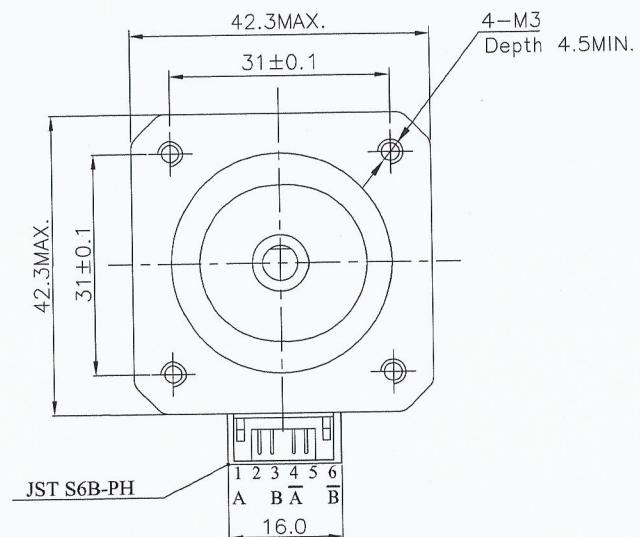
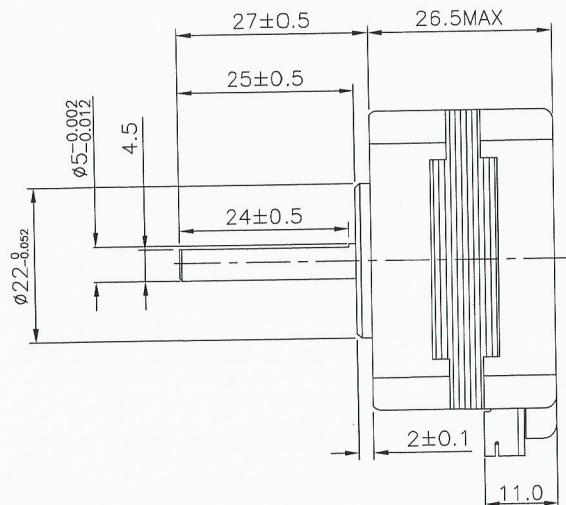
Approve

Martin

Date

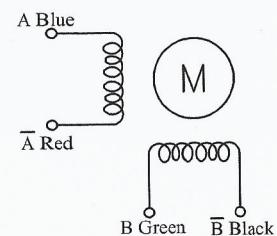
2/27/2017

E3D SKU: E-MOTOR-NEMA17-26MM-D-SHAFT



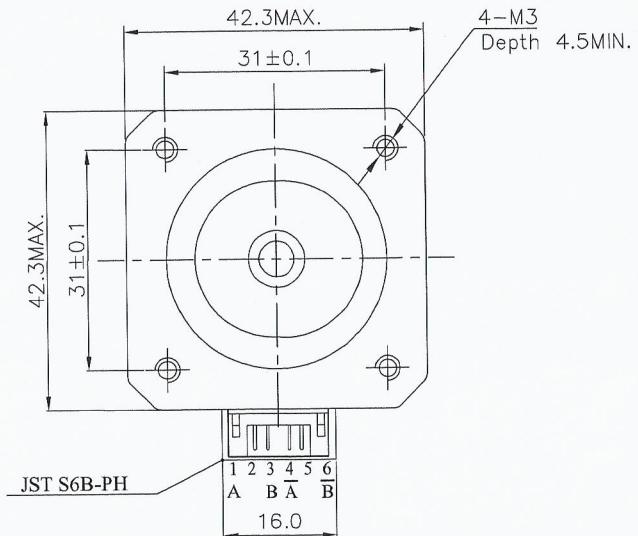
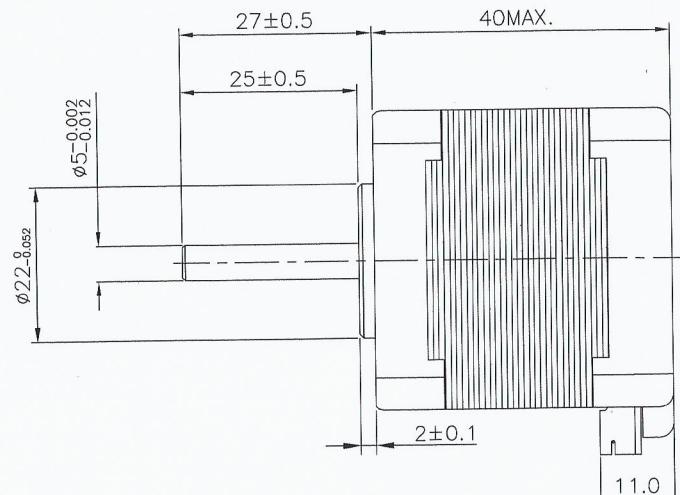
Items	Specs	Items	Specs
Phase Number	2 phases	Step Angle	0.9°±5%
Rated Voltage	2.7 VDC	Rated Current	DC 1.4 A / Phase
Resistance(20°C)	1.9±10% Ω / phase	Inductance	2.0±20% mH / Phase
Holding Torque	≥ 1.3 Kg-cm(18 Oz.in)	Detent Torque	75 g-cm REF.
Rotate Direction	ABABA CW	MAX Starting PPS	2500 PPS
MAX slewing PPS	2500 PPS	Insulation Resistance	≥100 MΩ(DC 500V)
HI POT	AC600V/1mA/1S	Insulation Class	Class B
Rotor Inertia	30 g.cm²	Weight	0.2 Kg REF.

Wiring Diagram



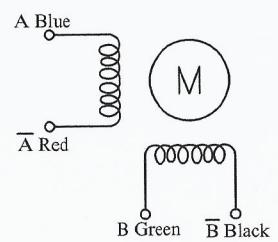
MOTECH MOTOR CO., LTD

Product Name	Hybrid Stepper Motor		Rev A
	MT-1703HSM168RE		
Made by	P.T	Approve	Martin
Date	2/27/2017	E3D SKU: E-MOTOR-NEMA17-40MM	



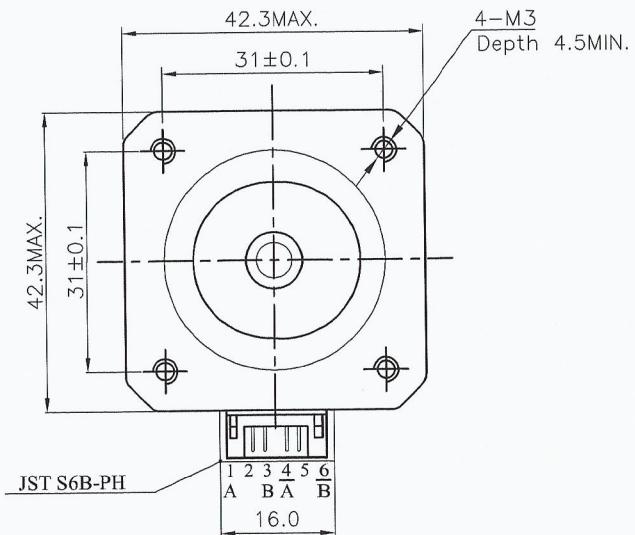
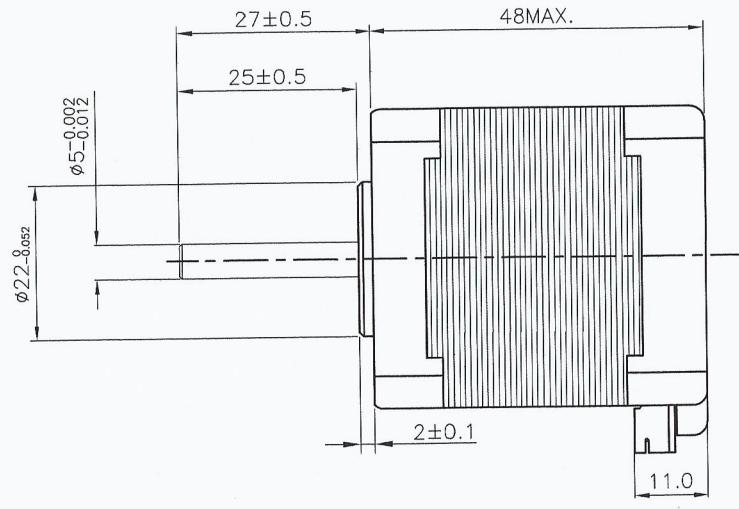
Items	Specs	Items	Specs
Phase Number	2 phases	Step Angle	0.9°±5%
Rated Voltage	2.8 VDC	Rated Current	DC 1.68 A / Phase
Resistance(20°C)	1.65±10% Ω / phase	Inductance	3.6±20% mH / Phase
Holding Torque	≥ 3.5 Kg-cm(48.6 Oz.in)	Detent Torque	220 g-cm REF.
Rotate Direction	ABABA CW	MAX Starting PPS	2500 PPS
MAX slewing PPS	2500 PPS	Insulation Resistance	≥100 MΩ(DC 500V)
HI POT	AC600V/1mA/1S	Insulation Class	Class B
Rotor Inertia	54 g.cm²	Weight	0.28 Kg REF.

Wiring Diagram



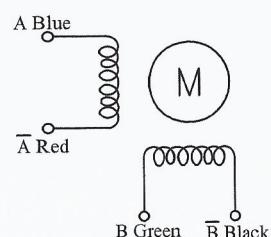
MOTECH MOTOR CO.,LTD

Product Name	Hybrid Stepper Motor MT-1704HSM168RE		Rev A
Made by	P.T	Approve	Martin
E3D SKU: E-MOTOR-NEMA17-48MM			Date 2/27/2017



Items	Specs	Items	Specs
Phase Number	2 phases	Step Angle	0.9°±5%
Rated Voltage	2.8 VDC	Rated Current	DC 1.68 A / Phase
Resistance(20°C)	1.65±10% Ω / phase	Inductance	2.8±20% mH / Phase
Holding Torque	≥ 4.4 Kg-cm(61 Oz.in)	Detent Torque	0.25 Kg-cm REF.
Rotate Direction	ABABA CW	MAX Starting PPS	2500 PPS
MAX slewing PPS	2500 PPS	Insulation Resistance	≥100 MΩ(DC 500V)
HI POT	AC600V/1mA/1S	Insulation Class	Class B
Rotor Inertia	68 g.cm²	Weight	0.35 Kg REF.

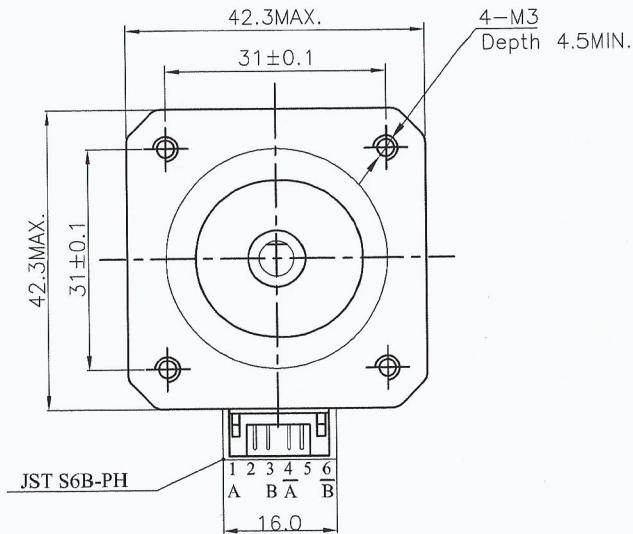
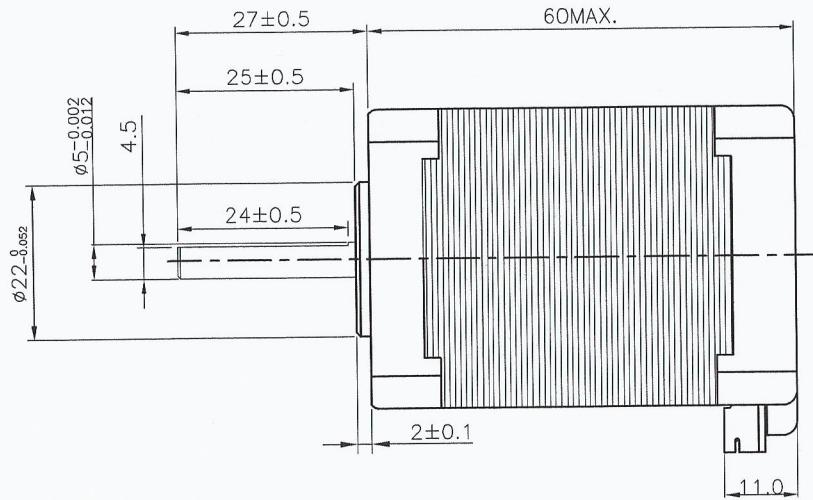
Wiring Diagram



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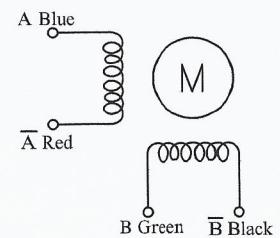
Product Name	Hybrid Stepper Motor MT-1705HS200AE		
Made by	P.T	Approve	Martin
Date	2/27/2016		
E3D SKU: E-MOTOR-NEMA17-65MM-D-SHAFT			

Rev A



Items	Specs	Items	Specs
Phase Number	2 phases	Step Angle	1.8°±5%
Rated Voltage	4.0 VDC	Rated Current	DC 2.0 A / Phase
Resistance(20°C)	2.0±10% Ω / phase	Inductance	3.3±20% mH / Phase
Holding Torque	≥ 8.2 Kg-cm(114 Oz-in)	Detent Torque	0.28 Kg-cm REF.
Rotate Direction	ABABA CW	MAX Starting PPS	2500 PPS
MAX slewing PPS	2500 PPS	Insulation Resistance	≥100 MΩ(DC 500V)
HI POT	AC600V/1mA/1S	Insulation Class	Class B
Rotor Inertia	102 g.cm²	Weight	0.55 Kg REF.

Wiring Diagram



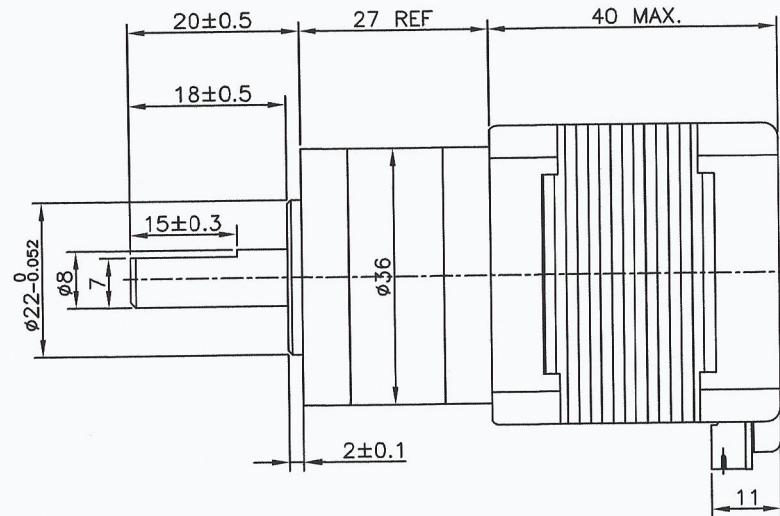
MOTECH MOTOR CO.,LTD

Product Name Geared Stepper Motor
MT-1703HS120AG518E

Rev A
 

Made by	P.T	Approve	Martin	Date	2/27/2017
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E3D SKU: E-MOTOR-GEARED-NEMA17

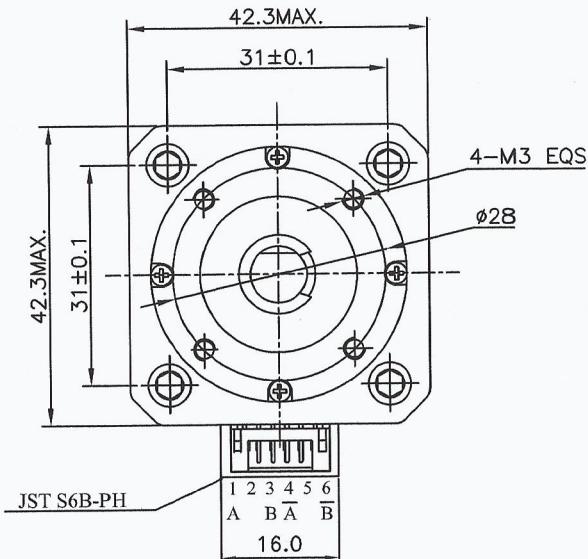


Motor Specs

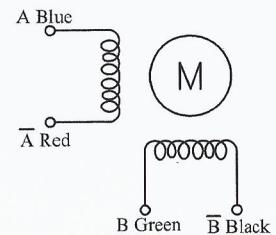
Items	Specs
Phase Number	2 Phases
Step Angle	1.8°±5%
Rated Voltage	3.6 VDC
Rated Current	DC 1.2 A / Phase
Holding Torque	≥4.4 Kg-cm(61 Oz-in)
Resistance(20°C)	3.0 ±10% Ω / phase
Inductance	6.0 ±20% mH / Phase
Rotate Direction	ABABA CW

Gearbox

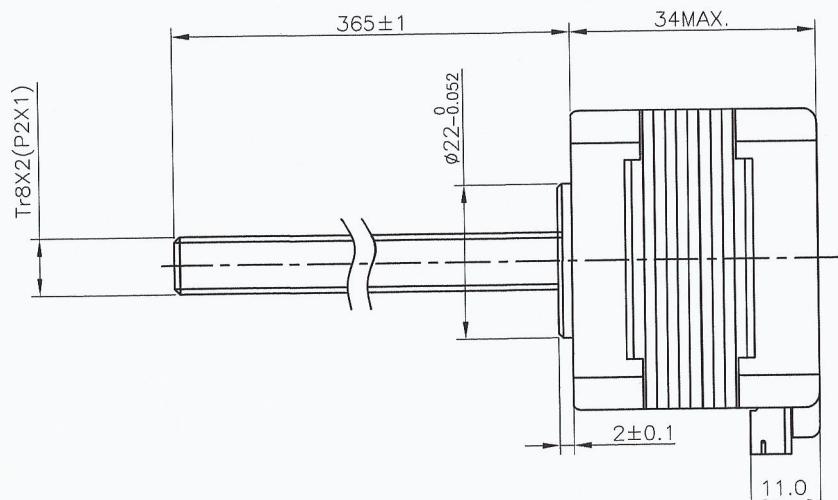
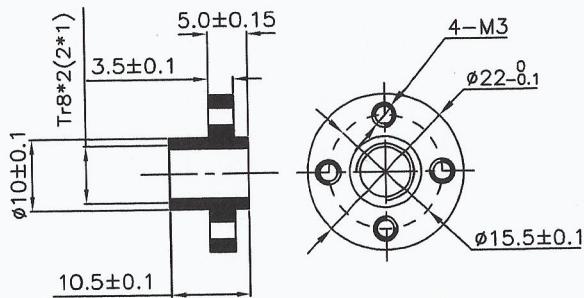
Items	Specs
Gear Ratio	5.18:1
Number of Stage	1-stage
Rated Tolerance Torque	20 kg.cm
Max Breaking Torque	40 kg.cm
Efficiency	90%
Max Radial Load	98.1N
Max. axial force	49.1N



Wiring Diagram

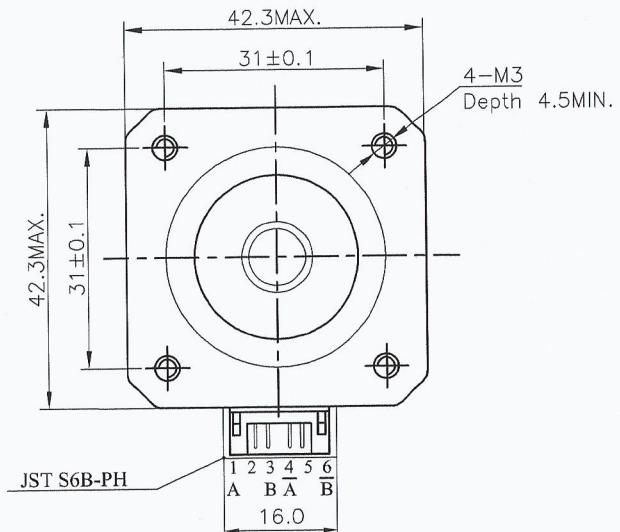


Normal POM Nut



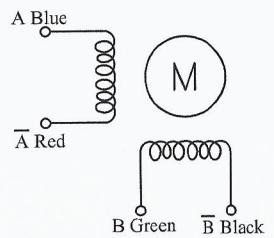
MOTECH MOTOR CO.,LTD

Product Name	Linear Stepper Motor			
MT-1702E133G6-365E				
Made by	P.T.	Approve	Martin	Date
				2/27/2017
E3D SKU: E-MOTOR-NEMA17-40MM-SCREW				



Items	Specs	Items	Specs
Phase Number	2 phases	Step Angle/Length	$1.8^\circ \pm 5\% / (0.01\text{mm/step})$
Rated Voltage	2.8 VDC	Rated Current	DC 1.33 A / Phase
Resistance(20°C)	$2.1 \pm 10\% \Omega / \text{phase}$	Inductance	$2.5 \pm 20\% \text{mH / Phase}$
Holding Torque	$\geq 3.2 \text{ Kg-cm}(44 \text{ Oz-in})$	Detent Torque	120 g-cm REF.
Rotate Direction	ABCDA CW	MAX Starting PPS	2800 PPS
MAX slewing PPS	3500 PPS	Insulation Resistance	$\geq 100 \text{ M}\Omega(\text{DC } 500\text{V})$
HI POT	AC600V/1mA/1S	Insulation Class	Class B
Rotor Inertia	35 g.cm^2	Weight	0.4 Kg REF.

Wiring Diagram



MOTECH MOTOR CO.,LTD

Product Name

Anti-Backlash Nuts
MT-TR8*2AT2

Rev A

Made by

P.T

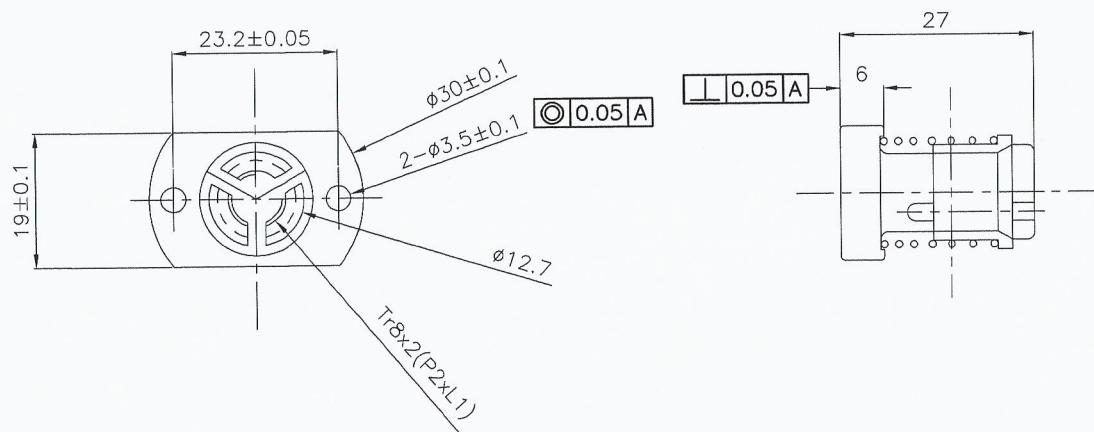
Approve

R.Y

Date

2/27/2017

E3D SKU: E-MOTOR-ANTI-BACKLASH-NUT



MOTECH MOTOR CO., LTD

Product Name

Nema 17 Cables
CB-EDG01&02



Rev A

Made by

P.T

Approve

Martin

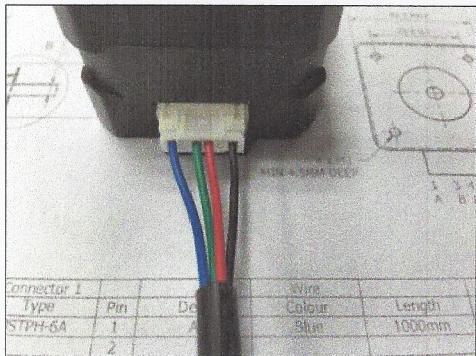
Date

2/27/2017

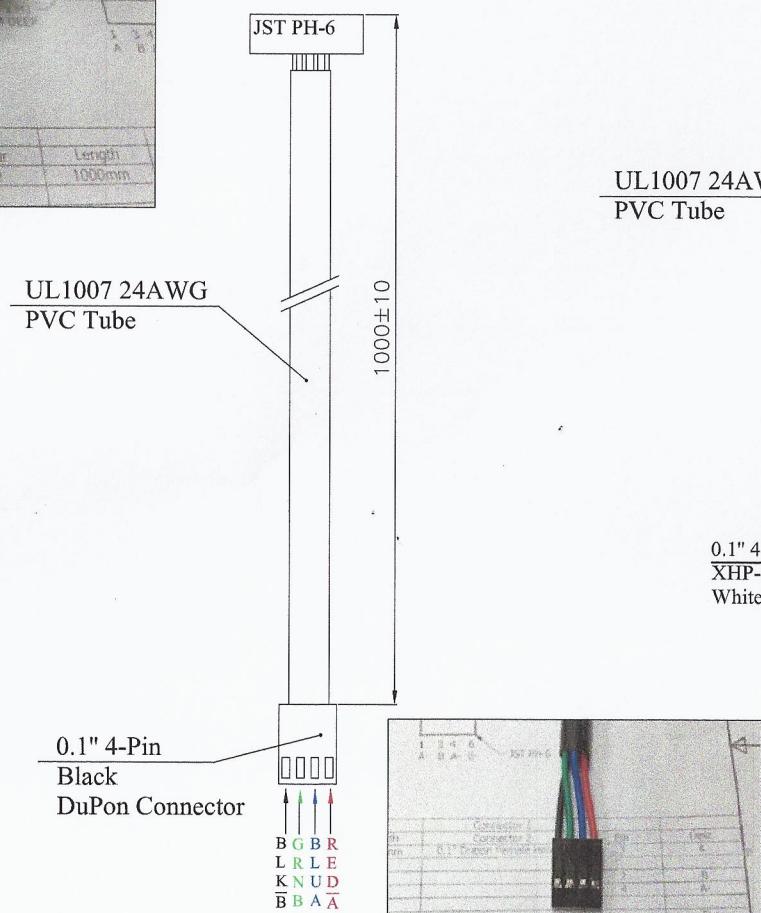
E3D SKU: E-CABLE-MOTOR-1000

E3D SKU: E-CABLE-MOTOR-500-ULT

PH-6 Connection
1Blue 3Green 4Red 6Blck



P/N: CB-EDG01
E3D SKU: E-CABLE-MOTOR-1000



P/N: CB-EDG02
E3D SKU: E-CABLE-MOTOR-500-ULT

