

Group	Motor	Date	8/29/2006
Series	T12	Revised	12/19/2007
Element Group	Wiring	Revision	2
Element	Color Code	Author	J. Coleman
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IDC T12 Stepper Motor Lead Wire Color Code

Languages	Target Group	Status	Usage	International Restrictions <small>checked = allowed to view</small>
<input checked="" type="checkbox"/> English	<input type="checkbox"/> Basic	<input type="checkbox"/> In Process	<input type="checkbox"/> Internal	<input checked="" type="checkbox"/> Citizens/Nationals of U.S.A.
<input type="checkbox"/> German	<input checked="" type="checkbox"/> Normal	<input checked="" type="checkbox"/> Completed	<input checked="" type="checkbox"/> Public	Non-Restricted Countries, End
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About the Content:

This document contains a chart to hook up a drive to the IDC T12 Stepper motor based off of the stepper lead wire colors.

Content

About the Content: 1
 Content 1
 Wire Color – Drive Connection Table 1
 Motor Specifications 2

The IDC T12 stepper motor has six lead wires that are the following colors: red, white, blue, green, yellow and black. The chart below specifies which wire color corresponds to the drive connection.

Wire Color – Drive Connection Table

		Wire Colors					
		Red	White	Blue	Green	Yellow	Black
Bipolar Drive Half Coil Connection	Option 1	A+	A-	None	B+	B-	None
	Option 2	None	A-	A+	None	B-	B+
Bipolar Drive Series Connection		A+	None	A-	B+	None	B-
Unipolar Drive		A	A/C Common	C	B	B/D Common	D

Motor Specifications

Holding Torque, Nm (oz-in)	0.32 (45)
Rated Current, A	1.2
Inductance, mH	2.8
Weight, kg (lb)	0.35 (.8)
Rotor Inertia, kg-cm ² (lb-in-s ²)	0.068 (6.02e-5)