



General and environmental specifications

Encoder	Incremental magnetic encoder (50,000 pulses per rotation)
Control Method	Closed loop vector control
Input Supply Voltage	DC24 V±10%
Resolution Pulse Rotation (Pulse/Rotation)	200, 400, 500, 1000(default), 2000, 2500,5000, 10000, 25000,50000 Select by parameter
Ambient Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to +60°C
Operating Humidity	Less than 90%RH
Shock	Less than 10 G
Vibration	Less than 1 G

Pin layout

For Reliance Cool Muscle electrical interfacing and connector pin layout see Technical Information [page T2-5](#).

Input/output signal

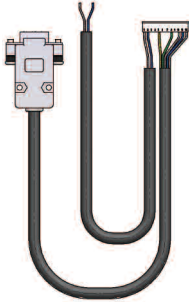
Pulse Interface	CW/CCW	Step/Direction
P Input Signal Pulse Input	CW/CCW Pulse	Step Pulse
	Maximum frequency: 500 Kpps Minimum pulse width: 0.8 µsec Voltage level H (with pulse) > +3.0 V (+24 Vmax) 7 mA-1 5mA Voltage level L (no pulse) < +0.8 V	Maximum frequency: 500 Kpps Minimum pulse width: 0.8 µsec Voltage level H (with pulse) > +3.0 V (+24 Vmax) 7 mA-15 mA Voltage level L (no pulse) < +0.8 V
Variable Voltage Interface - Now integrated into the C-Type motor		
V Input Signal Analogue Input	Speed Ccontrol setting	
	Increase the voltage from 2.6 V to 4.8 VDC to increase speed in the CW direction Decrease the voltage from 2.4 V to 0 VDC, to increase speed in the CCW direction. Use OP AMP for maximum resolution Position control setting Travel distance is proportionate to voltage input (between 0 V and 4.8 VDC) Maximum travel distance is set by a parameter	
Computer Control Interface		
C Input Signal Control Level	Via supplied cabling - motor interface is TTL, please specify RS232 or RS485 interface option	
	Voltage level high> 3 V (minimum 7 mA)	Voltage level low< 0.8 V
RT3 Real Time Interface		
Co-ordinated Motion	Allows 2 axes to work together to create accurate complex motion	
Logic Banks	Embedded PLC up to 200 steps for mathematical calculation of motion	
Quadrature	Simulated AB outputs from the magnetic encoder. Maximum frequency 20 kHz	
Shared I/O	Inputs or outputs are available to be read and accessed by all motors running programs and logic banks	



Software interface

For programming details for the C-Type Reliance Cool Muscle see Technical Information pages T2-3 to T2-5.

'Y' cables

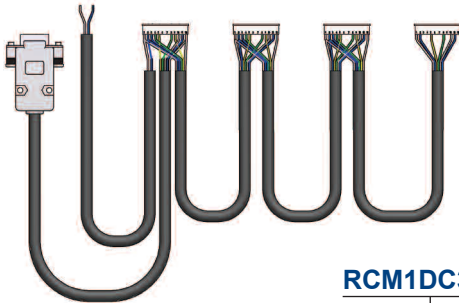


RCM1C3 - xx

Length of wires to first connector
(xx-xx if the two lengths are different)

Generic part number

Standard and customised daisy chain cables



RCM1DC3A - xx - N - xx - xx - xx

Length of wire between connectors
(Only one number required if the lengths are all the same)

Number of connectors

Length of wires to first connector
(xx-xx if the two lengths are different)

Generic part number

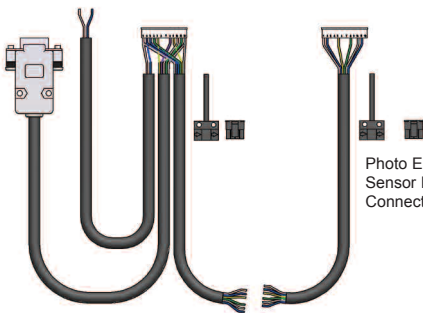


Photo Electric Sensor Molex Connector 2 way

i Product options

- For further information about customising cables, please contact us
- Customised cables are available with photosensors option