RMC200 D24 Cables

R2-CB-D24TB1-nnA
R2-CB-D24TB2-nnA
Installation and Wiring

Pigtail cables provide a compact, convenient option for RMC200 modules. These cables are for short distances between the RMC200 and terminal blocks within the same cabinet. For long cable runs, Delta recommends using cables with lower resistance and better shielding.

Supplied Components

The D24 module requires ordering two different cable assemblies:

- **R2-CB-D24TB1-nnA**
- **R2-CB-D24TB2-nnA**

nn denotes the length: 06 = 6 ft. (1.83 m); 12 = 12 ft. (3.66 m); contact Delta for other lengths.

Each cable assembly consists of:

- Terminal block connector
- Two cables, both wired to the single terminal block connector
- Flexible cable leader for easy bending out of module
- Pigtail ends

R2-CB-D24TB1-06A

R2-CB-D24TB2-06A

Cable specifications:

| Assembly:	R2-CB-D24TB1-nnA	R2-CB-D24TB2-nnA	
Cable (or equiv.)	**Alpha 1299/10C**	**Alpha 1296C**	**Alpha 2214C**
Cable Quantity	1	1	1
Outer Diameter	0.268 in.	0.219 in.	0.266 in.
Min bend radius	2.7 in.	2.2 in.	2.7 in.
Conductors	10	6	4 twisted pairs
Gauge	22 AWG, stranded	22 AWG	22 AWG, stranded
Shielding	Overall foil shield	Overall foil shield	Overall foil shield
Impedance	-	-	59 Ohms
Capacitance	50 pf/ft	50 pf/ft	38 pf/ft
Resistance	16.4 Ohms/1000 ft	16.4 Ohms/1000 ft	16.5 Ohms/1000 ft
Jacket	PVC, -20 to 80 °C	PVC, -20 to 80 °C	PVC, -20 to 80 °C

D24 Cables Wiring Notes

- Each DI/O point is configurable as an Input or Output. DI/Os are in three groups. Within a group, all inputs share one Input Common and all outputs share one Output Common.
- Each of the four individual high-speed Discrete Inputs can be configured for +5V signals by moving one wire per input at the module terminal block.
- Delta recommends the use of ferrules with these cables.
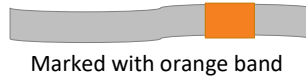
D24 Cables Pin-out

TB1 Cable A: DI/O 0-7

Colors		Pin
	Red	OutCmnA
	White	D0
	Green	D1
	Orange	D2
	Blue	D3
	Brown	D4
	Yellow	D5
	Purple	D6
	Gray	D7
	Black	InCmnA

No band
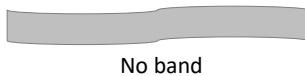
TB1 Cable B: DI/O 8-15

Colors		Pin
	Red	OutCmnB
	White	D0
	Green	D1
	Orange	D2
	Blue	D3
	Brown	D4
	Yellow	D5
	Purple	D6
	Gray	D7
	Black	InCmnB

Marked with orange band

TB2 Cable A: DI/O 16-19

Colors		Pin
	Red	OutCmnC
	White	D16
	Green	D17
	Orange	D18
	Blue	D19
	Black	InCmnC

No band
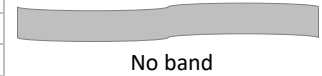
TB2 Cable B: Din 20-23

Color Pairs		Pin
	Red	Din20+
	Black	Din20-
	White	Din21+
	Black	Din21-
	Green	Din22+
	Black	Din22-
	Blue	Din23+
	Black	Din23-

Marked with orange band
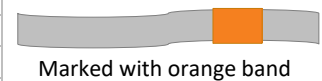
Installation Procedure

1. Insert the terminal block connectors for each cable assembly into the D24 module, tucking the upper cable into the groove:
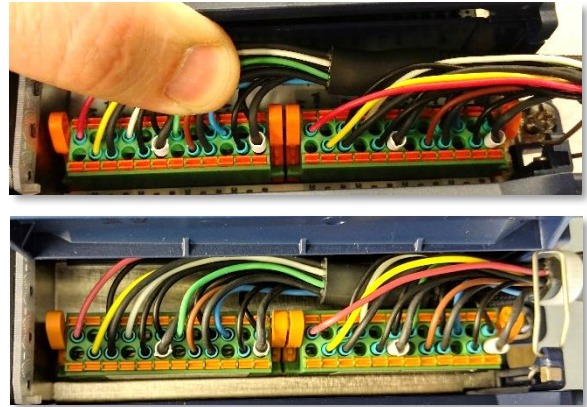
2. Use a cable tie to attach all cables exiting module to the tie down location shown. This ensures that module door will close properly. The cable tie should clamp onto the heat shrink tubing. Do not overtighten.

3. The high-speed inputs (Din20 through Din 23) come pre-wired for 12-24 V signals. For 5V signals, press the orange button with a screwdriver and remove the wire from **Din+**, then insert the wire into the **Din5V+** pin.

4. Connect the pigtail ends to terminal blocks as required by the application. Delta recommends the use of ferrules.