

## Motor Pigtail Connectors



### Motor Lead Disconnects

Thomas & Betts offers a complete line of Motor Lead Disconnects for 600 volt and 5kv applications. Constructed of high conductivity copper with tin-plating, these disconnects achieve quick, reliable change out of electric motors while eliminating bolting, taping and loose connections.

The Motor Lead Disconnects cover the wire range from #16 through 4/0 AWG and meet or exceed the electrical and mechanical performance of bolted connections. The female disconnects are equipped with a beryllium copper interface band to produce dependable connections.

#### Features and Benefits

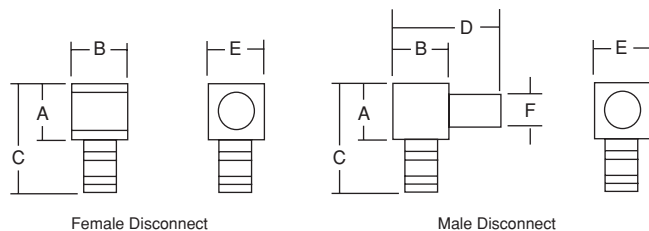
- Quick connections—Eliminates nuts, bolts and washers.
- Reliable insulation—No more “miles” of insulating tape. Simply slide on the reusable boot, keeping the total assembly small enough to fit into tight motor housings.
- Labor savings—Fast snap-together assembly.
- Quick disconnect—No knife-cutting of melted tape, therefore no risk of cutting wire insulation, less motor downtime, and installer exposure in hostile environments is minimized.

### Motor Pigtail Connector – One Line to One Load (2 Wire)

Cat. No.		Wire Size	Body Size	Color Code	Boot Insulation	Dimensions (in.)						Strip Length (in.)
Female Disconnect	Male Disconnect					A	B	C	D	E	F	
MD1614F-0	MD1614M-0	16-14 AWG	0	Blue	MDBOOT-0	.25	.25	.63	.52	.25	.125	3/8"
MD1614F-1	MD1614M-1	16-14 AWG	1	Blue	MDBOOT-1	.38	.38	.78	.75	.38	.250	3/8"
MD1210F-1	MD1210M-1	12-10 AWG	1	Yellow	MDBOOT-1	.38	.38	.78	.75	.38	.250	3/8"
MD1210F-2	MD1210M-2	12-10 AWG	2	Yellow	MDBOOT-2	.50	.50	.90	1.00	.50	.370	3/8"
MD8F-1	MD8M-1	8 AWG	1	Red	MDBOOT-1	.38	.38	.82	.75	.38	.250	7/16"
MD8F-2	MD8M-2	8 AWG	2	Red	MDBOOT-2	.50	.50	.95	1.00	.50	.370	7/16"
MD6F-1	MD6M-1	6 AWG	1	Blue	MDBOOT-1	.38	.38	.88	.75	.38	.250	1/2"
MD6F-2	MD6M-2	6 AWG	2	Blue	MDBOOT-2	.50	.50	1.02	1.00	.50	.370	1/2"
MD4F-2	MD4M-2	4 AWG	2	Gray	MDBOOT-2	.50	.50	1.06	1.00	.50	.370	1/2"
MD2F-2	MD2M-2	2 AWG	2	Brown	MDBOOT-2	.50	.50	1.09	1.00	.50	.370	17/32"
MD2F-3	MD2M-3	2 AWG	3	Brown	MDBOOT-3	.88	.88	1.46	1.75	.88	.500	17/32"
MD1F-2	MD1M-2	1 AWG	2	Green	MDBOOT-2	.50	.50	1.23	1.00	.50	.370	9/16"
MD1F-3	MD1M-3	1 AWG	3	Green	MDBOOT-3	.88	.88	1.56	1.75	.88	.500	9/16"
MD10F-3	MD10M-3	1/0 AWG	3	Pink	MDBOOT-3	.88	.88	1.56	1.75	.88	.500	9/16"
MD20F-3	MD20M-3	2/0 AWG	3	Black	MDBOOT-3	.88	.88	1.59	1.75	.88	.500	5/8"
MD30F-3	MD30M-3	3/0 AWG	3	Orange	MDBOOT-3	.88	.88	1.71	1.75	.88	.500	11/16"
MD40F-3	MD40M-3	4/0 AWG	3	Purple	MDBOOT-3	.88	.88	1.81	1.75	.88	.500	3/4"

Tooling: Pg. 79-100

Die Selector Chart: Pg. 105-109



Female Disconnect

Male Disconnect

# Color-Keyed®

## Motor Pigtail Connectors

Material: High Conductivity Copper

Plating: Tin

Insulator: Thermoplastic Elastomer



### Motor Pigtail Connector – One Line to One Load (2 Wire) – (continued)

Cat. No.		WT112M WT111M WT2000 ERG2002	TBM25S TBM20S	Installing Tools				Hydraulic Tools & TBM50S Hand Tool	
Female Disconnect	Male Disconnect			TBM6, TBM6S, TBM60RS Upper Die      Lower Die		TBM5 TBM5S Die Set	TBM8 TBM8S Die Set	Die Code	Color
MD1614F-0	MD1614M-0	X							
MD1614F-1	MD1614M-1	X							
MD1210F-1	MD1210M-1	X							
MD1210F-2	MD1210M-2	X							
MD8F-1	MD8M-1		X	13475	13477	13454	13461	21	Red
MD8F-2	MD8M-2		X	13475	13477	13454	13461	21	Red
MD6F-1	MD6M-1		X	13475	13477	13454	13461	24	Blue
MD6F-2	MD6M-2		X	13475	13477	13454	13461	24	Blue
MD4F-2	MD4M-2		X	13472	13476	13454	13461	29	Gray
MD2F-2	MD2M-2		X	13474	13477	13454	13461	33	Brown
MD2F-3	MD2M-3		X	13474	13477	13454	13461	33	Brown
MD1F-2	MD1M-2			13474	13477	13455	13462	37	Green
MD1F-3	MD1M-3			13474	13477	13455	13462	37	Green
MD10F-3	MD10M-3			13475	13477	13455	13462	42	Pink
MD20F-3	MD20M-3			13474	13477	13455	13462	45	Black
MD30F-3	MD30M-3			13474	13477	13455	13462	50	Orange
MD40F-3	MD40M-3			13475	13477	13456	13463	54	Purple

**Specifications:**

Wire range: No. 16 to 4/0 AWG

Rating: 600V, 90°C

Material: High conductivity copper

Plating: Tin

Insulator: Thermoplastic Elastomer

Quick, Easy Installation

1. Choose appropriate Color-Keyed® disconnect for conductor size to be terminated. Note color of bands on disconnect barrel.
2. Select proper installing die by matching die color to disconnect barrel color bands.
3. Install die in T&B tool, insert stripped wire into barrel of disconnect and compress between color bands. Repeat for mating half.
4. Snap the two halves together and slip on insulator over mated connection. Secure insulator with TY-RAP® cable ties provided with the insulators.



600 Volt Version



5KV Volt Version

Tooling: Pg. 79-100

Die Selector Chart: Pg. 105-109

