

Motor Pigtail Connectors

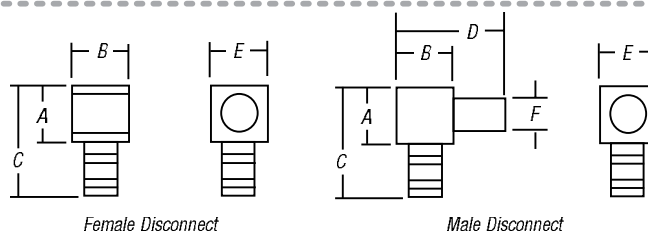
Quick, reliable change-out of electric motors with no bolting, taping or loose connections.

Motor Lead Disconnects

- Complete line of motor lead disconnects for 600V and 5kV applications, covering wire range from #16 AWG through 500 kcmil
- Fast, snap-together assembly offers maximum labor savings
- No need for nuts, bolts and washers or insulating tape — simply slide on reusable boot
- Total assembly fits into tight motor housings
- Quick disconnect — no knife cutting of melted tape, eliminating the risk of accidental cutting of wire insulation, resulting motor downtime and installer exposure
- Meet or exceed electrical and mechanical performance of bolted connections
- Constructed of high-conductivity copper with tin plating
- Female disconnects equipped with beryllium copper interface band for dependable connections



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	3/64
MD1614F-1	MD1614M-1	#16-#14 AWG	1		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		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		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		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		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	3/4
MD1F-3	MD1M-3	#1 AWG	3		MDBOOT-3	.88	.88	1.56	1.75	.88	.500	3/4
MD10F-3	MD10M-3	1/0 AWG	3	PINK	MDBOOT-3	.88	.88	1.56	1.75	.88	.500	3/4
MD20F-3	MD20M-3	2/0 AWG	3	BLACK	MDBOOT-3	.88	.88	1.59	1.75	.88	.500	3/4
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
MD40F-4	MD40M-4	4/0 AWG	4		MDBOOT-4	1.25	1.25	2.89	2.69	1.25	.813	—
MD250F-4	MD250M-4	250 kcmil	4	YELLOW	MDBOOT-4	1.25	1.25	2.89	2.69	1.25	.813	—
MD350F-4	MD350M-4	350 kcmil	4	RED	MDBOOT-4	1.25	1.25	2.89	2.69	1.25	.813	—
MD500F-4	MD500M-4	500 kcmil	4	BROWN	MDBOOT-4	1.25	1.25	2.89	2.69	1.25	.813	—

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

Motor Pigtail Connectors

Quick, easy installation!

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

- 1 Choose appropriate Blackburn® 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.

Material: High-Conductivity Copper

Plating: Tin

Insulator: Thermoplastic Elastomer



600V Version



5kV Version



INSTALLING TOOLS

CAT. NO.		WT112M WT111M WT2000 ERG4002	TBM6, TBM6S						TBM5 TBM5S		TBM8 TBM8S		HYDRAULIC TOOLS	
FEMALE DISCONNECT	MALE DISCONNECT		TBM45S	UPPER DIE	LOWER DIE	DIE SET	DIE SET	DIE CODE	COLOR					
MD1614F-0	MD1614M-0	BLUE	—	—	—	—	—	—	—					
MD1614F-1	MD1614M-1		—	—	—	—	—	—	—					
MD1210F-1	MD1210M-1	YELLOW	—	—	—	—	—	—	—					
MD1210F-2	MD1210M-2		—	—	—	—	—	—	—					
MD8F-1	MD8M-1	—	X	13475	13477	13454	13461	21	RED					
MD8F-2	MD8M-2	—	X	13475	13477	13454	13461	21						
MD6F-1	MD6M-1	—	X	13475	13477	13454	13461	24	BLUE					
MD6F-2	MD6M-2	—	X	13475	13477	13454	13461	24						
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						
MD1F-2	MD1M-2	—	—	13474	13477	13455	13462	37	GREEN					
MD1F-3	MD1M-3	—	—	13474	13477	13455	13462	37						
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					
MD40F-4	MD40M-4	—	—	13475	13477	13456	13463	54						
MD250F-4	MD250M-4	—	—	13473	13476	13456	13463	62	YELLOW					
MD350F-4	MD350M-4	—	—	13472	13476	13458	13466	71H	RED					
MD500F-4	MD500M-4	—	—	13478	13478	13458	13468	87H	BROWN					

Specifications: Wire Range: #16 to 4/0 AWG

Rating: 600V, 90° C

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

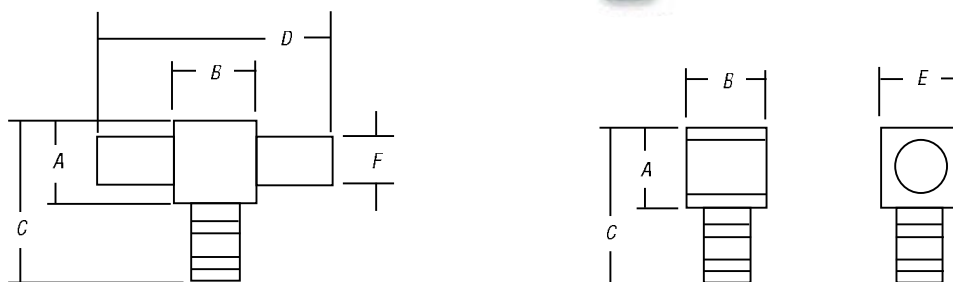
Motor Pigtail Connectors

Motor Pigtail Connector — One Line to Two Load (3 Wire)

- KON-TOUR™ louvered contact bands
- Color coded to match installing dies

Material: High-Conductivity Wrought Copper

Finish: Electro-Tin Plate



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	M2D1614M-0	#16-#14 AWG	0	BLUE	MDBOOT-1	.250	.250	.63	.77	.25	.12	3/8
MD1210F-1	M2D1210M-1	#12-#10 AWG	1	YELLOW	M2DBOOT-1	.380	.380	.780	.750	.380	.25	3/8
MD1210F-2	M2D1210M-2	#12-#10 AWG	2	YELLOW	M2DBOOT-2	.500	.500	.900	1.500	.500	.37	3/8
MD8F-1	M2D8M-1	#8 AWG	1	RED	M2DBOOT-1	.380	.380	.820	1.125	.380	.25	1/16
MD8F-2	M2D8M-2	#8 AWG	2	RED	M2DBOOT-2	.500	.500	.950	1.500	.500	.37	1/16
MD6F-1	M2D6M-1	#6 AWG	1	BLUE	M2DBOOT-1	.380	.380	.875	1.125	.380	.25	1/2
MD6F-2	M2D6M-2	#6 AWG	2	BLUE	M2DBOOT-2	.500	.500	1.020	1.500	.500	.37	1/2
MD4F-2	M2D4M-2	#4 AWG	2	GRAY	M2DBOOT-2	.500	.500	1.060	1.500	.500	.37	1/2
MD2F-2	M2D2M-2	#2 AWG	2	GRAY	M2DBOOT-2	.500	.500	1.090	1.500	.500	.37	1/32
MD2F-3	M2D2M-3	#2 AWG	3	BROWN	M2DBOOT-3	.875	.875	1.460	2.630	.875	.50	1/32
MD1F-2	M2D1M-2	#1 AWG	2	GREEN	M2DBOOT-2	.50	.50	1.230	1.500	.500	.37	3/16
MD1F-3	M2D1M-3	#1 AWG	3	GREEN	M2DBOOT-3	.875	.875	1.560	2.630	.875	.50	3/16
MD10F-3	M2D10M-3	1/0 AWG	3	PINK	M2DBOOT-3	.875	.875	1.560	2.630	.875	.50	3/16
MD20F-3	M2D20M-3	2/0 AWG	3	BLACK	M2DBOOT-3	.875	.875	1.590	2.630	.875	.50	5/8
MD30F-3	M2D30M-3	3/0 AWG	3	ORANGE	M2DBOOT-3	.875	.875	1.710	2.630	.875	.50	1 1/16
MD40F-3	M2D40M-3	4/0 AWG	3	PURPLE	M2DBOOT-3	.875	.875	1.810	2.630	.875	.50	3/4

Operating Range: 600V max., 1000V max. in signs and fixtures.

Listing: UL® Listed and CSA Certified for #12-#8 AWG solid copper conductors and stranded copper conductors in the sizes shown.

Selection: Always use the same body size when selecting male and female disconnects. For example, to connect a #2 AWG male to a #8 AWG female, select Catalog Numbers M2D2M-2 and MD8F-2. Both have body size 2.

Insulation: Use insulating boots matching the disconnect body size as indicated in the chart. To protect the connection from moisture and dirt, use sealing compound (Catalog Number MDBOOT-SEAL).

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104

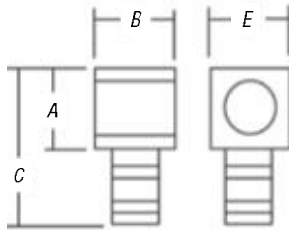
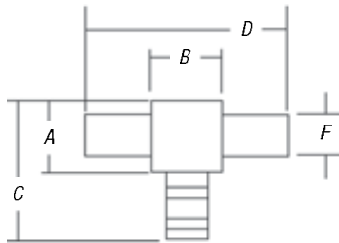
Motor Pigtail Connectors

Motor Pigtail Connector — One Line to Two Load (3 Wire) (continued)

- KON-TOUR™ louvered contact bands
- Color coded to match installing dies

Material: High-Conductivity Wrought Copper

Finish: Electro-Tin Plate



CAT.NO.		INSTALLING TOOLS							
FEMALE DISCONNECT	MALE DISCONNECT	WT112M WT111M ERG4002 WT2000	TBM6 TBM6S		TBM5 TBM5S	TBM8 TBM8S	HYDRAULIC TOOLS		COLOR
			TBM25S	UPPER DIE	LOWER DIE	DIE SET	DIE SET	DIE CODE	
MD1614F-0	M2D1614M-0	BLUE	—	—	—	—	—	—	—
MD1210F-1	M2D1210M-1		—	—	—	—	—	—	—
MD1210F-2	M2D1210M-2		—	—	—	—	—	—	—
MD8F-1	M2D8M-1	YELLOW	X	13475	13477	13454	13461	21	RED
MD8F-2	M2D8M-2		X	13475	13477	13454	13461	21	RED
MD6F-1	M2D6M-1		X	13475	13477	13454	13461	24	BLUE
MD6F-2	M2D6M-2	—	X	13475	13477	13454	13461	24	BLUE
MD4F-2	M2D4M-2	—	X	13472	13476	13454	13461	29	GRAY
MD2F-2	M2D2M-2	—	X	13474	13477	13454	13461	33	BROWN
MD2F-3	M2D2M-3	—	X	13474	13477	13454	13461	33	BROWN
MD1F-2	M2D1M-2	—	—	13474	13477	13455	13462	37	GREEN
MD1F-3	M2D1M-3	—	—	13474	13477	13455	13462	37	GREEN
MD10F-3	M2D10M-3	—	—	13475	13477	13455	13462	42	PINK
MD20F-3	M2D20M-3	—	—	13474	13477	13455	13462	45	PINK
MD30F-3	M2D30M-3	—	—	13474	13477	13455	13462	50	ORANGE
MD40F-3	M2D40M-3	—	—	13475	13477	13456	13463	54	PURPLE

Tooling: pp. F-80–F-100

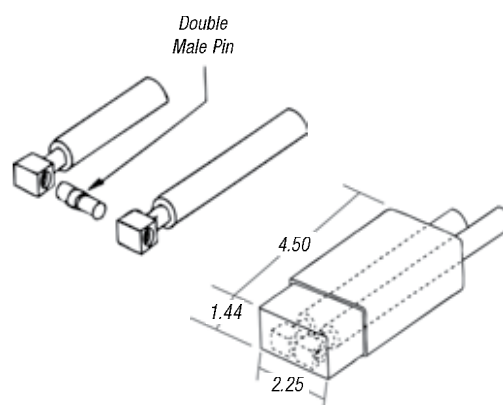
Die Selector Chart: pp. F-101–F-104

Motor Pigtail Connectors

5kV Motor Pigtail Connector Supplied with Boot, Pin, Silicon Gel (Two Female Connectors Required)



CAT. NO.	WIRE RANGE AWG	FEMALE DISCONNECT CAT. NO.	COLOR CODE	DIMENSIONS			BODY SIZE
				L	W	H	
5KVBOOT-2L	#8	MD8F-2	RED	4.50	2.25	1.44	2
5KVBOOT-2L	#6	MD6F-2	BLUE	4.50	2.25	1.44	2
5KVBOOT-2L	#4	MD4F-2	GRAY	4.50	2.25	1.44	2
5KVBOOT-2L	#2	MD2F-2	BROWN	4.50	2.25	1.44	2
5KVBOOT-2L	#1	MD1F-2	GREEN	4.50	2.25	1.44	2
5KVBOOT-3L	#2	MD2F-3	BROWN	4.50	2.25	1.44	3
5KVBOOT-3L	#1	MD1F-3	GREEN	4.50	2.25	1.44	3
5KVBOOT-3L	1/0	MD10F-3	PINK	4.50	2.25	1.44	3
5KVBOOT-3L	2/0	MD20F-3	BLACK	4.50	2.25	1.44	3
5KVBOOT-3L	3/0	MD30F-3	ORANGE	4.50	2.25	1.44	3
5KVBOOT-3L	4/0	MD40F-3	PURPLE	4.50	2.25	1.44	3



For easy, reliable sealing of motor disconnect boots.

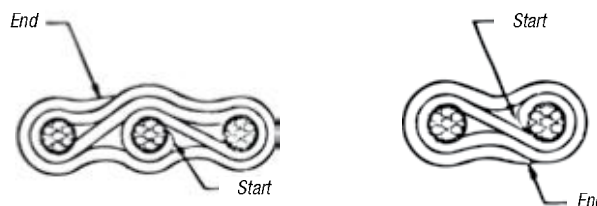
Sealant

Sealant should be used with T&B Motor Disconnect Boots:
MDBOOT-0, MDBOOT-1, MDBOOT-2 and MDBOOT-3.

The cable should be clean and free of grease and other foreign substances.

Apply two layers around each cable at the same distance from the connector.

Slide the assembly into boot, apply Ty-Rap® cable ties and work sealant
around wires at end of boot to eliminate voids.



Specifications

- Description: Polybutene Compound
- Application Temperature: 40° F to 100° F
- Service Temperature: -40° F to 180° F
- Dimensions: Width 1", Thickness 3/8", Length (Std. Roll) 10', wrapped on release liner
- Environmental Resistance: Resists normal aging process
- Chemical Resistance: Resists acids, bases and alcohols
- Dielectric Strength: 200V/mil minimum
- Volume Resistivity: 1013 ohms/cm
- Flame Retardancy: Pass VO Vertical Flame Test

CAT. NO.	DESCRIPTION
MDBOOT-SEAL	Sealant

For watertight applications, contact technical services.

Tooling: pp. F-80-F-100

Die Selector Chart: pp. F-101-F-104