

# General Information

Marathon Special Products, a Regal Beloit Company, has served the electrical/electronic component industry for over 70 years. Our facility in Bowling Green, Ohio contains all manufacturing and warehousing operations including an extensive electrical test lab.

We offer a broad range of fuse holders and terminal blocks, including Kulka® terminal blocks. In addition, we have the expertise to design and manufacture non-standard products for specific customer applications.

On February 1, 1994, Marathon Special Products was registered to ISO standards. We are currently registered to ISO 9001:2008 quality standards.

Marathon Special Products also offers a line of DIN sectional terminal blocks.

## Agency Approvals:

The majority of products manufactured by Marathon Special Products are Underwriters Laboratories and Canadian Standards Association approved.

The approval status of products can be found throughout the catalog. Below are the different approval forms and brief descriptions.



Listed products by Underwriters Laboratories have been evaluated to U.S. safety requirements. These products are qualified for use in equipment without end-use agency approval when applied within the product's rated performance.



Listed products by Underwriters Laboratories have been evaluated to both U.S. and Canadian safety requirements. These products are qualified for use in equipment without end-use agency approval when applied within the product's rated performance.



Recognized products by Underwriters Laboratories have been evaluated to U.S. safety requirements. These products are components of a larger product or system and have guidelines addressing the suitability when used in an end product.



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Certified by Canadian Standards Association, suitable for use in other equipment where Canadian Standards Association determines the suitability of the combination.



Compliance with European Union Low Voltage Directive.

## Environmental Compliance:

All products offered by Marathon Special Products are RoHS compliant and do not require REACH notification.

## Tightening Torque:

Recommended tightening torque is listed for all products, either on the carton label or the product label. All torque recommendations are based on UL 486. In some cases, because of various connector designs, our recommended torque is different from the torque tables shown in UL 486. However, these products passed the heating cycling and static heating tests as specified in UL 486.

## Wire Ampacity:














The ampacity of a wire is its current carrying capacity with reference to the cross sectional area of the conductor(s), the temperature rating of the insulation and ambient temperature.

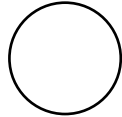
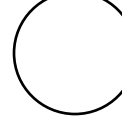
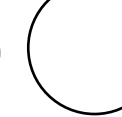
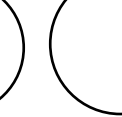

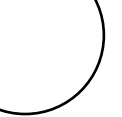
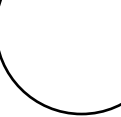
Marathon specified wire ranges are based on UL approved tests using 75°C wire. Wires with temperature ratings other than 75°C are approved while observing NEC Article 310 wire tables for allowable ampacities of insulated conductors. Marathon voltage and amperage ratings remain constant and are independent of the temperature rating of the wire used in application. Wire gauges and type must remain within the Marathon specified ranges to be UL approved. However, UL approval for higher currents may be obtained in some end-use applications.

# General Information

## Wire Chart:

Wire diameter is based on UL Class B and C stranded wire (also known as code wire, building wire, or rigid stranded wire).

													
SIZE	#14	#12	#10	#8	#6	#4	#3	#2	#1	1/0	2/0	3/0	4/0
DIAMETER	.073	.092	.115	.146	.184	.235	.281	.295	.335	.380	.420	.475	.530
AMPS	15	20	30	50	65	85	100	115	130	150	175	200	230

							
SIZE	250kcmil	300kcmil	350kcmil	400kcmil	500kcmil	600kcmil	750kcmil
DIAMETER	.580	.635	.690	.730	.820	.893	.998
AMPS	255	285	310	335	380	420	475

## Tolerances for Catalog Dimensions:

Length Dimensions	Tolerance	All Other Dimensions	Tolerance
1.0" - 5.0"	± .030	X.X"	± .030
5.1" - 10.0"	± .050	X.XX"	± .020
10.1" - 15.0"	± .060	X.XXX"	± .010

Note: Catalog Dimensions are for guidance only and are not to be construed as inspection standards.

This catalog is intended to present product data that will help the end user with design application. Since changes to products occur, it is recommended that the end user request samples for evaluation. Marathon Special Products reserves the right to change or update without notice. Please visit [www.marathonsp.com](http://www.marathonsp.com) for the most up-to-date product information.

## Torque Conversions:

Lb-in	N-m	Lb-in	N-m	Lb-in	N-m
2	0.2	25	2.8	100	11.3
5	0.6	30	3.4	120	13.6
6	0.7	35	4.0	150	16.9
8	0.9	40	4.5	192	21.7
10	1.1	45	5.1	275	31.1
15	1.7	50	5.6	375	42.4
18	2.0	61	6.9	422	47.7
20	2.3	80	9.0	500	56.5