

# Wire - Type MTW

## Applications

Type MTW conductors are primarily used in control cabinets, in machine tool applications, and in appliance wiring applications. For use in accordance with the National Electrical Code (NEC) and NFPA Standard 79. Voltage rating for all applications is 600 volts.

MTW wire is sold in 500 foot spools; certain sizes and colors are also available in 2500 foot reels.

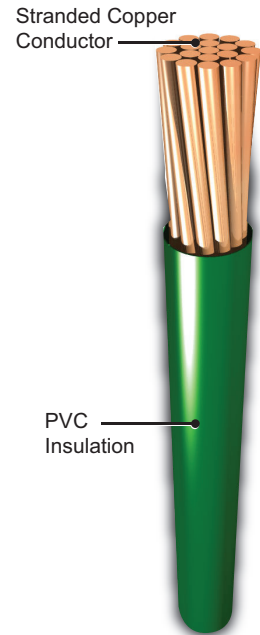


## Features

- Gauges from 20AWG to 10AWG
- Bare copper conductor
- Color-coded Polyvinyl Chloride (PVC) outer jacket
- Striped version available for some colors and gauges
- Multiple ratings and approvals
- 500' spools or 2500' reels available for most sizes & colors
- Made in the USA



## Type MTW Wire



Type MTW Wire Specifications											
Size (AWG or kcmil)	Number of Strands	Insulation Thickness (inches)	Overall Outside Diameter		Allowable Ampacities*			Agency Approvals	Temperature Rating per UL1015	Approximate Weight (lbs) 500'/2500'	Standard Packaging spool/reel
			(inches)	(mm)	60°C	75°C	90°C				
20	10	0.030	0.099	2.51	5	5	5	UL1011 UL1015 UL1230 UL1335 UL1032 CSA TEW or AWM I A/B 2011/65/EU (RoHS 2) UL File No. E51583	105°C	3.7	500'
18	16	0.030	0.110	2.79	6	6	UL1015 UL758 UL1063 CSA TEW or AWM I A/B ARRA 2009; Section 1605 "Buy American" Compliant UL File No. E156879	4.6 / 26.8		500' or 2500'. Some colors not offered in 2500' reel.	
16	26	0.030	0.123	3.12	8	8		8			6.5 / 34.4
14	19	0.030	0.132	3.35	15	15		15			9 / 46.8
12	19	0.030	0.151	3.84	20	20		20			13.2 / 71
10	19	0.030	0.205	5.21	30	30		30		20.9	500'

*\*Note: Allowable ampacity shown above is per the National Electric Code. The above data is approximate and subject to normal manufacturing tolerances. To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page at [www.automationdirect.com](http://www.automationdirect.com)*

*Please Note: Our prices on wire are closely tied to the market price for copper. This allows us to offer the best savings possible if conditions are favorable; however, it also means that our prices may increase if market conditions warrant.*

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Part Number	Insulation Color	Gauge	Description	Spool/Reel Length	Approx. Weight	Price
<b>MTW20BK</b>	Black	20AWG	Type MTW wire, bare copper, 10 strands, 600 Volts	500'	3.7 lbs	\$25.00
<b>MTW20WH</b>	White					\$25.00
<b>MTW20RD</b>	Red					\$25.00
<b>MTW20BL</b>	Blue					\$25.00
<b>MTW20GN</b>	Green					\$25.00
<b>MTW20YL</b>	Yellow					\$25.00
<b>MTW20OR</b>	Orange					\$25.00
<b>MTW20BN</b>	Brown					\$25.00
<b>MTW20PL</b>	Purple					\$25.00
<b>MTW20GY</b>	Gray					\$25.00
<b>MTW20BW</b>	Blue with White spiral stripe					\$30.00
<b>MTW20WB</b>	White with Blue spiral stripe					\$30.00
<b>MTW20WO</b>	White with Orange spiral stripe					\$30.00
<b>MTW20GYL</b>	Green with Yellow spiral stripe					\$30.00
<b>MTW18BK</b>	Black	18AWG	Type MTW wire, bare copper, 16 strands, 600 Volts	500'	4.6 lbs	\$35.00
<b>MTW18WH</b>	White					\$35.00
<b>MTW18RD</b>	Red					\$35.00
<b>MTW18BL</b>	Blue					\$35.00
<b>MTW18GN</b>	Green					\$35.00
<b>MTW18YL</b>	Yellow					\$35.00
<b>MTW18OR</b>	Orange					\$35.00
<b>MTW18BN</b>	Brown					\$35.00
<b>MTW18PL</b>	Purple					\$35.00
<b>MTW18GY</b>	Gray					\$35.00
<b>MTW18BW</b>	Blue with White spiral stripe					\$40.00
<b>MTW18WB</b>	White with Blue spiral stripe					\$40.00
<b>MTW18WO</b>	White with Orange spiral stripe					\$40.00
<b>MTW18GYL</b>	Green with Yellow spiral stripe					\$40.00
<b>MTW16BK</b>	Black	16AWG	Type MTW wire, bare copper, 26 strands, 600 Volts	500'	6.5 lbs	\$48.00
<b>MTW16WH</b>	White					\$48.00
<b>MTW16RD</b>	Red					\$48.00
<b>MTW16BL</b>	Blue					\$48.00
<b>MTW16GN</b>	Green					\$48.00
<b>MTW16YL</b>	Yellow					\$48.00
<b>MTW16OR</b>	Orange					\$48.00
<b>MTW16BN</b>	Brown					\$48.00
<b>MTW16PL</b>	Purple					\$48.00
<b>MTW16GY</b>	Gray					\$48.00
<b>MTW16BW</b>	Blue with White spiral stripe					\$53.00
<b>MTW16WB</b>	White with Blue spiral stripe					\$53.00
<b>MTW16WO</b>	White with Orange spiral stripe					\$53.00
<b>MTW16GYL</b>	Green with Yellow spiral stripe					\$53.00
<b>MTW14BK</b>	Black	14AWG	Type MTW wire, bare copper, 19 strands, 600 Volts	500'	9.0 lbs	\$72.00
<b>MTW14WH</b>	White					\$72.00
<b>MTW14RD</b>	Red					\$72.00
<b>MTW14BL</b>	Blue					\$72.00
<b>MTW14GN</b>	Green					\$72.00
<b>MTW14YL</b>	Yellow					\$72.00
<b>MTW14OR</b>	Orange					\$72.00
<b>MTW14BN</b>	Brown					\$72.00
<b>MTW14PL</b>	Purple					\$72.00
<b>MTW14GY</b>	Gray					\$72.00
<b>MTW14BW</b>	Blue with White spiral stripe					\$77.00
<b>MTW14WB</b>	White with Blue spiral stripe					\$77.00
<b>MTW14WO</b>	White with Orange spiral stripe					\$77.00
<b>MTW14GYL</b>	Green with Yellow spiral stripe					\$77.00

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Part Number	Insulation Color	Gauge	Description	Spool/Reel Length	Approx. Weight	Price
<b>MTW12BK</b>	Black	12AWG	Type MTW wire, bare copper, 19 strands, 600 Volts	500'	13.2 lbs	\$99.00
<b>MTW12WH</b>	White					\$99.00
<b>MTW12RD</b>	Red					\$99.00
<b>MTW12BL</b>	Blue					\$99.00
<b>MTW12GN</b>	Green					\$99.00
<b>MTW12YL</b>	Yellow					\$99.00
<b>MTW12OR</b>	Orange					\$99.00
<b>MTW12BN</b>	Brown					\$99.00
<b>MTW12GY</b>	Gray					\$99.00
<b>MTW10BK</b>	Black					10AWG
<b>MTW10WH</b>	White	\$154.00				
<b>MTW10GN</b>	Green	\$154.00				
<b>MTW10YL</b>	Yellow	\$154.00				
<b>MTW10OR</b>	Orange	\$154.00				
<b>MTW10BN</b>	Brown	\$154.00				
<b>MTW18BK25</b>	Black	18AWG	Type MTW wire, bare copper, 16 strands, 600 Volts		26.8 lbs	\$173.00
<b>MTW18WH25</b>	White					\$173.00
<b>MTW18RD25</b>	Red					\$173.00
<b>MTW18BL25</b>	Blue					\$173.00
<b>MTW18GN25</b>	Green					\$173.00
<b>MTW18YL25</b>	Yellow					\$173.00
<b>MTW18OR25</b>	Orange					\$173.00
<b>MTW18BN25</b>	Brown					\$173.00
<b>MTW18PL25</b>	Purple					\$173.00
<b>MTW18GY25</b>	Gray					\$173.00
<b>MTW18BW25</b>	Blue with White spiral stripe					\$198.00
<b>MTW16BK25</b>	Black	16AWG	Type MTW wire, bare copper, 26 strands, 600 Volts	2500'	34.4 lbs	\$235.00
<b>MTW16WH25</b>	White					\$235.00
<b>MTW16RD25</b>	Red					\$235.00
<b>MTW16BL25</b>	Blue					\$235.00
<b>MTW16GN25</b>	Green					\$235.00
<b>MTW16YL25</b>	Yellow					\$235.00
<b>MTW16OR25</b>	Orange					\$235.00
<b>MTW16BN25</b>	Brown					\$235.00
<b>MTW16PL25</b>	Purple					\$235.00
<b>MTW16GY25</b>	Gray					\$235.00
<b>MTW16BW25</b>	Blue with White spiral stripe					\$260.00
<b>MTW14BK25</b>	Black	14AWG	Type MTW wire, bare copper, 19 strands, 600 Volts		46.8 lbs	\$352.00
<b>MTW14WH25</b>	White					\$352.00
<b>MTW14RD25</b>	Red					\$352.00
<b>MTW14BL25</b>	Blue					\$352.00
<b>MTW14GN25</b>	Green					\$352.00
<b>MTW14YL25</b>	Yellow					\$352.00
<b>MTW14OR25</b>	Orange					\$352.00
<b>MTW14BN25</b>	Brown					\$352.00
<b>MTW14PL25</b>	Purple					\$352.00
<b>MTW14GY25</b>	Gray					\$352.00
<b>MTW14BW25</b>	Blue with White spiral stripe					\$377.00
<b>MTW12BK25</b>	Black	12AWG	Type MTW wire, bare copper, 19 strands, 600 Volts		71.0 lbs	\$480.00

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## Gauge Conversion Table

<b>American Wire Gauge Conversion Chart*</b>			
This cross reference shows equivalent nominal values. Actual cross sections may vary.			
<b>AWG</b>	<b>mm<sup>2</sup></b>	<b>AWG</b>	<b>mm<sup>2</sup></b>
30	0.05	6	16
28	0.08	4	25
26	0.14	2	35
24	0.25	1	50
22	0.34	1/0	55
21	0.38	2/0	70
20	0.50	3/0	95
18	0.75	4/0	120
17	1.00	300MCM	150
16	1.50	350MCM	185
14	2.50	500MCM	240
12	4	600MCM	300
10	6	750MCM	400
8	10	1000MCM	500

**\*Note: Table shows commercially used equivalent values.**