

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.

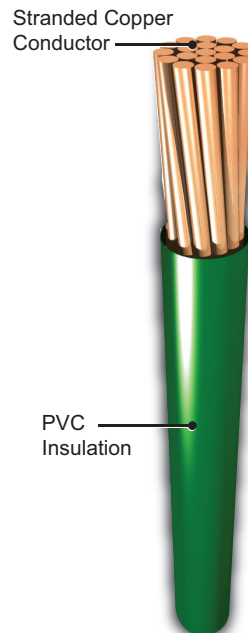


Features

- 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	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*

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
MTW20BK	Black	20AWG	Type MTW wire, bare copper, 10 strands, 600 Volts	500'	3.7 lbs	\$25.50
MTW20WH	White					\$25.50
MTW20RD	Red					\$25.50
MTW20BL	Blue					\$25.50
MTW20GN	Green					\$25.50
MTW20YL	Yellow					\$25.50
MTW20OR	Orange					\$25.50
MTW20BN	Brown					\$25.50
MTW20PL	Purple					\$25.50
MTW20GY	Gray					\$25.50
MTW20BW	Blue with White spiral stripe					\$30.50
MTW20WB	White with Blue spiral stripe					\$30.50
MTW20WO	White with Orange spiral stripe					\$30.50
MTW20GYL	Green with Yellow spiral stripe					\$30.50
MTW18BK	Black	18AWG	Type MTW wire, bare copper, 16 strands, 600 Volts	500'	4.6 lbs	\$36.00
MTW18WH	White					\$36.00
MTW18RD	Red					\$36.00
MTW18BL	Blue					\$36.00
MTW18GN	Green					\$36.00
MTW18YL	Yellow					\$36.00
MTW18OR	Orange					\$36.00
MTW18BN	Brown					\$36.00
MTW18PL	Purple					\$36.00
MTW18GY	Gray					\$36.00
MTW18BW	Blue with White spiral stripe					\$41.00
MTW18WB	White with Blue spiral stripe					\$41.00
MTW18WO	White with Orange spiral stripe					\$41.00
MTW18GYL	Green with Yellow spiral stripe					\$41.00
MTW16BK	Black	16AWG	Type MTW wire, bare copper, 26 strands, 600 Volts	500'	6.5 lbs	\$49.00
MTW16WH	White					\$49.00
MTW16RD	Red					\$49.00
MTW16BL	Blue					\$49.00
MTW16GN	Green					\$49.00
MTW16YL	Yellow					\$49.00
MTW16OR	Orange					\$49.00
MTW16BN	Brown					\$49.00
MTW16PL	Purple					\$49.00
MTW16GY	Gray					\$49.00
MTW16BW	Blue with White spiral stripe					\$54.00
MTW16WB	White with Blue spiral stripe					\$54.00
MTW16WO	White with Orange spiral stripe					\$54.00
MTW16GYL	Green with Yellow spiral stripe					\$54.00
MTW14BK	Black	14AWG	Type MTW wire, bare copper, 19 strands, 600 Volts	500'	9.0 lbs	\$74.00
MTW14WH	White					\$74.00
MTW14RD	Red					\$74.00
MTW14BL	Blue					\$74.00
MTW14GN	Green					\$74.00
MTW14YL	Yellow					\$74.00
MTW14OR	Orange					\$74.00
MTW14BN	Brown					\$74.00
MTW14PL	Purple					\$74.00
MTW14GY	Gray					\$74.00
MTW14BW	Blue with White spiral stripe					\$79.00
MTW14WB	White with Blue spiral stripe					\$79.00
MTW14WO	White with Orange spiral stripe					\$79.00
MTW14GYL	Green with Yellow spiral stripe					\$79.00

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Part Number	Insulation Color	Gauge	Description	Spool/Reel Length	Approx. Weight	Price
MTW12BK	Black	12AWG	Type MTW wire, bare copper, 19 strands, 600 Volts	500'	13.2 lbs	\$101.00
MTW12WH	White					\$101.00
MTW12RD	Red					\$101.00
MTW12BL	Blue					\$101.00
MTW12GN	Green					\$101.00
MTW12YL	Yellow					\$101.00
MTW12OR	Orange					\$101.00
MTW12BN	Brown					\$101.00
MTW12GY	Gray					\$101.00
MTW10BK	Black	10AWG	Type MTW wire, bare copper, 19 strands, 600 Volts		20.9 lbs	\$158.00
MTW10WH	White					\$158.00
MTW10GN	Green					\$158.00
MTW10YL	Yellow					\$158.00
MTW10OR	Orange					\$158.00
MTW10BN	Brown					\$158.00
MTW18BK25	Black	18AWG	Type MTW wire, bare copper, 16 strands, 600 Volts		26.8 lbs	\$177.00
MTW18WH25	White					\$177.00
MTW18RD25	Red					\$177.00
MTW18BL25	Blue					\$177.00
MTW18GN25	Green					\$177.00
MTW18YL25	Yellow					\$177.00
MTW18OR25	Orange					\$177.00
MTW18BN25	Brown					\$177.00
MTW18PL25	Purple					\$177.00
MTW18GY25	Gray					\$177.00
MTW18BW25	Blue with White spiral stripe	\$203.00				
MTW16BK25	Black	16AWG	Type MTW wire, bare copper, 26 strands, 600 Volts	2500'	34.4 lbs	\$241.00
MTW16WH25	White					\$241.00
MTW16RD25	Red					\$241.00
MTW16BL25	Blue					\$241.00
MTW16GN25	Green					\$241.00
MTW16YL25	Yellow					\$241.00
MTW16OR25	Orange					\$241.00
MTW16BN25	Brown					\$241.00
MTW16PL25	Purple					\$241.00
MTW16GY25	Gray					\$241.00
MTW16BW25	Blue with White spiral stripe	\$267.00				
MTW14BK25	Black	14AWG	Type MTW wire, bare copper, 19 strands, 600 Volts		46.8 lbs	\$361.00
MTW14WH25	White					\$361.00
MTW14RD25	Red					\$361.00
MTW14BL25	Blue					\$361.00
MTW14GN25	Green					\$361.00
MTW14YL25	Yellow					\$361.00
MTW14OR25	Orange					\$361.00
MTW14BN25	Brown					\$361.00
MTW14PL25	Purple					\$361.00
MTW14GY25	Gray					\$361.00
MTW14BW25	Blue with White spiral stripe	\$386.00				
MTW12BK25	Black	12AWG	Type MTW wire, bare copper, 19 strands, 600 Volts		71.0 lbs	\$492.00

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Gauge Conversion Table

American Wire Gauge Conversion Chart*			
This cross reference shows equivalent nominal values. Actual cross sections may vary.			
AWG	mm²	AWG	mm²
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.**