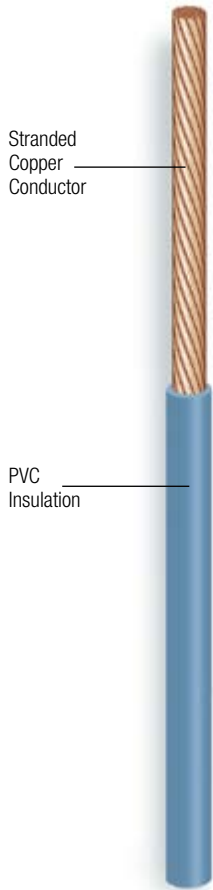


# TYPE MTW / AWM / TEW MACHINE TOOL & APPLIANCE WIRE



## ENGINEERING SPECIFICATIONS:

### Standards:

UL Standard 1063, UL Standard 758, UL Style 1015  
 Appliance Wire CSA Standard as TEW  
 ARRA 2009; Section 1605 "Buy American" Compliant



Listed E-156878 (16 AWG; 18 AWG)  
 Listed E-156879



## CONSTRUCTION:

### Conductors:

Bare, annealed copper per ASTM-B3, B174, and B787

### Insulation:

Color-coded Polyvinyl Chloride (PVC), heat and moisture-resistant, flame-retardant compound per UL-1063

### Applications:

Type MTW or TEW conductors are primarily used in control cabinets, in machine tool applications, and in appliance wiring applications at temperatures -25°C to 105°C. For use in accordance with the National Electrical Code (NEC) and NFPA Standard 79. Voltage rating for all applications is 600 volts.

Type MTW/AWM/TEW Machine Tool & Appliance Wire

Size (AWG)	Number of Strands	PVC Insulation Thickness (Conductor)		Outside Diameter		Approximate Net Weight		Allowable Ampacity (Amps)*			Standard Packaging (ft)
		(mm)	(in)	(mm)	(in)	(kg/km)	(lbs/1000 ft)	60°C	75°C	90°C	
18	16	0.762	0.030	2.79	0.110	12	8	6	6	6	2000' carton (4x500), 2500' reels
16	26	0.762	0.030	3.12	0.123	16	11	8	8	8	2000' carton (4x500), 2500' reels
14	19	0.762	0.030	3.35	0.132	27	18	15	15	15	2000' carton (4x500), 2500' reels
12	19	0.762	0.030	3.84	0.151	37	25	20	20	20	1000' carton (2x500), 2500' reels
10	19	0.762	0.030	5.21	0.170	60	40	30	30	30	500' spools, 2500' reels
8	19	1.143	0.045	5.94	0.234	100	67	40	50	55	500' 1000' 2500' 5000' reels
6	19	1.524	0.060	7.62	0.300	149	100	55	65	75	500' 1000' 2500' 5000' reels
4	19	1.524	0.060	8.84	0.348	223	150	70	85	95	500' 1000' 2500' 5000' reels
3	19	1.524	0.060	9.50	0.374	315	212	85	100	110	500' 1000' 2500' 5000' reels
2	19	1.524	0.060	10.26	0.404	342	230	95	115	130	500' 1000' 2500' 5000' reels

\*Allowable ampacity shown above is per the National Electrical Code. The above data is approximate and subject to normal manufacturing tolerances.

PRINT LEGEND: CONDUCTOR SIZES 16 AWG THROUGH 2 AWG: ENCORE WIRE CORPORATION (SIZE) AWG TYPE MTW 600 VOLTS GR I VW-1 (UL) OR AWM OR C(RU) TYPE TEW FT1