



Hook-up & equipment wires

UL AWM 1015

Equipment and Machine Tool Wire

Triple-rated UL AWM 1015 / UL 1063 MTW / CSA TEW 600 V 105 °C panel & machine tool wire



UL 1015 · MTW · CSA TEW

600 V · 105 °C · VW-1 / FT1

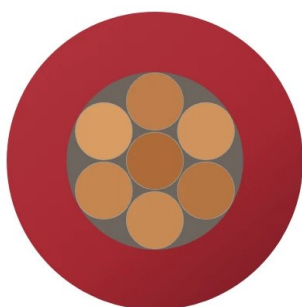
26-10 AWG Panel Wire

Application

Heavy-duty 600 V industrial control panel and equipment lead wire triple-rated to UL AWM Style 1015 (105 °C), UL 1063 Machine Tool Wire (MTW, 90 °C dry / 60 °C oil) and CSA TEW (105 °C), built with a 0.79 mm (30 mil) VW-1 / FT1 PVC wall over 26-10 AWG copper.

Typical uses: UL 508A industrial control panels & PLC racks, NFPA 79 CNC machine tools & automation lines, Dry-type transformers, UPS & power supplies, Commercial HVAC, chiller & pump starter panels, Switchgear, MCCs & export machinery harnesses

Construction



Cross-section, not to scale

1	Stranded tinned or bare copper	ASTM B33 · UL 758 · UL 1063
2	0.79 mm (30 mil) 105 °C PVC dielectric	UL 758 Style 1015 · UL 1063 MTW
3	VW-1 / FT1 oil-resistant PVC finish	UL 1581 VW-1 · CSA C22.2 No. 127 TEW

Technical data

Typical values

Rated voltage	600 V RMS	Dielectric withstand voltage	2000 V AC for 1 min · 6000 V AC spark test
Max. DC conductor resistance (20 °C)	22 AWG: ≤ 53.2 Ω/km · 18 AWG: ≤ 21.0 Ω/km · 16 AWG: ≤ 13.2 Ω/km · 14 AWG: ≤ 8.28 Ω/km · 12 AWG: ≤ 5.21 Ω/km · 10 AWG: ≤ 3.28 Ω/km	Temperature rating	−40 °C to +105 °C (UL 1015 & CSA TEW dry) · +90 °C dry / +60 °C wet & oil (UL 1063 MTW)
Short-circuit / solder heat	+150 °C to +250 °C (5 s)	Nominal insulation wall	0.79 mm (0.031 in / 30 mil) minimum average, 0.71 mm (28 mil) minimum at any point
Min. bending radius	4 × overall diameter (fixed panel routing)	Flame retardance	UL 1581 VW-1 & CSA FT1 vertical flame tests
Oil & coolant resistance	UL 1063 MTW & CSA TEW 60 °C oil immersion and cutting-fluid splash resistant	Standards	UL 758 AWM Style 1015 & UL 1063 Machine Tool Wire (MTW, 16–10 AWG)
Standard packing	Heat-treated ISPM-15 timber drums or spools with sealed ends		

Sizes

9 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × mm ² / AWG	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
600 V 105 °C Equipment & Machine Tool Wire (UL 1015 / MTW / CSA TEW, 26–10 AWG) 9 sizes							
☐ UL 1015 26 AWG (7/34)	26 AWG (0.13 mm ²)	26	1.9	2.1	1	6	8
☐ UL 1015 24 AWG (7/32)	24 AWG (0.20 mm ²)	24	2.1	2.2	2	7	9
☐ UL 1015 22 AWG (7/30)	22 AWG (0.33 mm ²)	22	2.2	2.4	3	9	10
☐ UL 1015 20 AWG (10/30)	20 AWG (0.52 mm ²)	20	2.4	2.6	5	11	10
☐ UL 1015 / MTW 18 AWG (16/30)	18 AWG (0.82 mm ²)	18	2.6	2.9	7	14	11
☐ UL 1015 / MTW 16 AWG (26/30)	16 AWG (1.31 mm ²)	16	2.9	3.1	12	20	13
☐ UL 1015 / MTW 14 AWG (41/30)	14 AWG (2.08 mm ²)	14	3.3	3.5	20	28	14
☐ UL 1015 / MTW 12 AWG (65/30)	12 AWG (3.31 mm ²)	12	3.7	4.0	31	42	16
☐ UL 1015 / MTW 10 AWG (105/30)	10 AWG (5.26 mm ²)	10	4.3	4.7	50	64	19

– Dimensions and weights are typical values per UL 758 Style 1015 · UL 1063 MTW · CSA C22.2 No. 127 TEW. Minimum fixed bending radius shown is 4 × OD.

Electrical & current ratings

9 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	Single wire in air 30 °C, A	Multi-core bundle 30 °C, A
0.13	26	155	2.5	2.0
0.2	24	95.5	3.5	2.8
0.33	22	57.8	6.0	4.5
0.52	20	34.6	10	7
0.82	18	24	14	11
1.31	16	15.1	20	15
2.08	14	9.8	27	21
3.31	12	6.2	36	27
5.26	10	3.88	50	36

– Current ratings at 30 °C ambient in free air. Apply temperature and bundle grouping factors per applicable equipment standard.

Standards and approvals

✓ UL 758 Style 1015 · UL 1063 MTW · CSA C22.2 No. 127 TEW

✓ CE · RoHS 2 (2011/65/EU) · REACH

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/ul-awm-1015-equipment-and-machine-tool-wire



Typical values for this cable type, based on UL 758 Style 1015 · UL 1063 MTW · CSA C22.2 No. 127 TEW. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.