

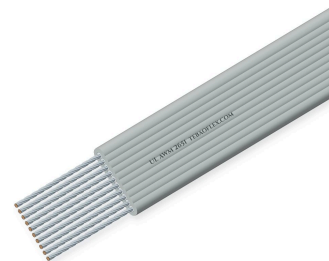


Hook-up & equipment wires

UL AWM 2651

Flat Ribbon Cable

UL AWM 2651 300 V 105 °C 1.27 mm (.050") pitch 28 AWG IDC mass-termination ribbon cable



UL 2651 · CSA AWM I A FT1

1.27 mm (.050") IDC Pitch

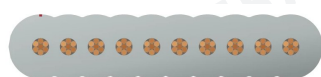
28 AWG (7/36) · 6-64 Ways

Application

Precision-extruded 1.27 mm (0.050") pitch flat ribbon cable certified to UL AWM Style 2651 (105 °C, 300 V, VW-1) and CSA FT1, aligning 6 to 64 parallel 28 AWG (7×36 tinned copper) conductors in a zip-separable grey PVC web with a red Pin-1 polarity stripe.

Typical uses: PCB-to-PCB 2.54 mm (.100") IDC box headers, Industrial PLC, HMI & display module jumpers, JTAG, AVR/ARM debuggers & test fixtures, Power-supply sense & control board links, Telecom, server & instrumentation sub-racks

Construction



Cross-section, not to scale

1 28 AWG (7/36) tinned copper

ASTM B33 · UL 758

2 1.27 mm (.050") pitch PVC web

UL 758 Style 2651

3 Grey PVC surface + red Pin-1 stripe

UL 1581 VW-1 · CSA FT1

Technical data

Typical values

Rated voltage	300 V RMS	Dielectric withstand voltage	2000 V AC for 1 min · 2500 V AC spark test
Characteristic impedance (G-S-G)	105 Ω ± 10 % (at 1 MHz, Ground-Signal-Ground)	Capacitance & propagation delay	≈ 45 pF/m (G-S-G at 1 MHz) · ≈ 4.6 ns/m · inductance ≈ 0.50 µH/m
Max. DC conductor resistance (20 °C)	28 AWG (7/36): ≤ 216 Ω/km	Temperature rating	−20 °C to +105 °C continuous
Short-circuit / solder heat	+150 °C to +250 °C (5 s)	Conductor pitch (centre-to-centre)	1.27 ± 0.05 mm (0.050 ± 0.002 in)
Cable thickness	0.89 ± 0.08 mm (0.035 ± 0.003 in) · insulation wall 0.25 mm (10 mil) nominal	Folding & breakout	Folds flat for 90° chassis turns and zips apart cleanly between webs for discrete termination
Flame retardance	UL 1581 VW-1 vertical wire flame test & CSA C22.2 FT1	Chemical & moisture resistance	Resistant to oils, weak acids, alkalis and moisture
Standards	UL 758 Appliance Wiring Material Style 2651 (105 °C, 300 V, VW-1)	Standard packing	Heat-treated ISPM-15 timber drums or spools with sealed ends

Sizes

10 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
300 V 105 °C 1.27 mm (.050") Pitch 28 AWG Flat Ribbon (UL 2651, 10–64 Ways) 10 sizes							
☐ UL 2651 10-Way (12.7 mm wide)	10×28 AWG	28	11.7	12.7	8	19	38
☐ UL 2651 14-Way (17.8 mm wide)	14×28 AWG	28	16.4	17.8	11	27	53
☐ UL 2651 16-Way (20.3 mm wide)	16×28 AWG	28	18.7	20.3	12	30	61
☐ UL 2651 20-Way (25.4 mm wide)	20×28 AWG	28	23.4	25.4	16	38	76
☐ UL 2651 26-Way (33.0 mm wide)	26×28 AWG	28	30.4	33.0	20	49	99
☐ UL 2651 34-Way (43.2 mm wide)	34×28 AWG	28	39.7	43.2	27	65	130
☐ UL 2651 40-Way (50.8 mm wide)	40×28 AWG	28	46.7	50.8	32	76	152
☐ UL 2651 50-Way (63.5 mm wide)	50×28 AWG	28	58.4	63.5	40	95	190
☐ UL 2651 60-Way (76.2 mm wide)	60×28 AWG	28	70.1	76.2	48	114	229
☐ UL 2651 64-Way (81.3 mm wide)	64×28 AWG	28	74.8	81.3	51	122	244

– Dimensions and weights are typical values per UL 758 Style 2651 · CSA AWM I A (105 °C, 300 V, FT1). Minimum fixed bending radius shown is 3 × OD.

Electrical & current ratings

1 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
0.08	28	248	1.5	1.2

– 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 2651 · CSA AWM I A (105 °C, 300 V, FT1)

✓ 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

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/ul-awm-2651-flat-ribbon-cable



Typical values for this cable type, based on UL 758 Style 2651 · CSA AWM I A (105 °C, 300 V, FT1). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.