Automation, drag-chain & robot cables

77000W Series (77807W) 600V Continuous Flex

77000W Series (77807W) 600V Continuous-Flex Drag-Chain Control Cable

UL AWM Style 2587 / CSA AWM I/II A/B · 600 V · −40...+90 °C · Min. bend 7.5 × OD



UL AWM Style 2587 / CSA AWM I/II A/B | 600 V

Application

UL AWM Style 2587 / CSA FT1 (600 V, -40 to +90 °C, 14 million flex cycles) 7G18 AWG (105×40) ultra-fine bare copper unshielded continuous-flex drag-chain control cable.

Typical uses: Industrial automation & control cabinets, Inverter-fed motor drive systems, Process instrumentation & oil/gas skids, Machine tools & robotic cells, Data centers, stadiums & broadcast facilities

Construction





Cross-section, not to scale

1	**7 Conductors (18 AWG Ultra-Fine Bare Cu)**	105×40 AWG Extra-Fine Stranded Bare Copper
2	**Lubricated PVC/Nylon Drag-Chain Insulation**	6 Black White-Numbered Cores + 1 Green/Yellow Ground
3	**Low-Friction Non-Woven Slip Wrap**	14-Million-Cycle Continuous-Flex Separator Tape
4	**Matte Black Oil-Resistant PVC Jacket**	UL AWM Style 2587 High-Flex Outer Sheath (10.16 mm OD)

Technical data

Typical values

Nominal / reference voltage	600 V	Conductor & core insulation	105×40 AWG Extra-Fine Stranded Bare Copper · 6 Black White-Numbered Cores + 1 Green/Yellow Ground
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	−40…+90 °C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	UL AWM Style 2587 / CSA AWM I/II A/B
Minimum bending radius	7.5 × OD	Screening / armour architecture	Unshielded multi-core construction · mechanical protection via outer jacket
Outer sheath material & colour	UL AWM Style 2587 High-Flex Outer Sheath (10.16 mm OD)	Standards	UL AWM Style 2587 / CSA C22.2 No. 210 AWM I/II A/B FT1 / UL Oil Res I & II / NFPA 79

Sizes

3 standard constructions

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

Part designation	Configuration	Conductor & shield	Insulation / wall	Outer sheath	Outer diameter mm	Min. bend radius mm	Max. conductor resistance @ 20 °C Ω/km	Copper weight kg/km	Cable weight kg/km	Key electrical / optical r
77000W Series (77807W) 600V Continuous Flex 3 sizes										
☐ 77807W 7G18 AWG (6C + G/Y) 14M-Cycle	7G18 AWG (7 × 0.82 mm² · 105×40 AWG)	105×40 AWG Bare Cu + Lubricated PVC/Nylon	6 Black White-Numbered Cores + 1 Green/Yellow Ground	Industrial PVC	10.2	76	21.40	55.1	148	600 V · 14M Flex Cycles (
☐ 77805W 5G18 AWG (4C + G/Y) 14M-Cycle	5G18 AWG (5 × 0.82 mm² · 105×40 AWG)	105×40 AWG Bare Cu + Lubricated PVC/Nylon	6 Black White-Numbered Cores + 1 Green/Yellow Ground	Industrial PVC	8.9	67	21.40	39.4	110	600 V · 14M Flex Cycles (
☐ 77812W 12G18 AWG (11C + G/Y) 14M-Cycle	12G18 AWG (12 × 0.82 mm² · 105×40 AWG)	105×40 AWG Bare Cu + Lubricated PVC/Nylon	6 Black White-Numbered Cores + 1 Green/Yellow Ground	Industrial PVC	12.9	97	21.40	94.5	238	600 V · 14M Flex Cycles (

– Dimensions and weights are nominal manufacturing targets subject to standard production tolerances.

Standards and approvals

- ✓ UL AWM Style 2587 / CSA AWM I/II A/B Compliant
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ 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/77000w-series-77807w-600v-ul-awm-2587-continuous-flex-drag-chain-control-cable**

Typical values for this cable type, based on Reference specification per UL AWM Style 2587 / CSA AWM I/II A/B (77000W Series (77807W) 600V Continuous Flex). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.