WCW® WAHCHANGWEI

DS-TGS-2026-01
Rev. 2026-10
Flame rating: UL VW-1

High-Temperature Special Fiberglass Sleeving

Grade TGS-1W-600C · Continuous Duty to +600 °C

Technical datasheet · WCW (Shenzhen Wahchangwei Industrial Co., Ltd.)

Construction: high-temperature fiberglass braid finished with a specialized heat-resistant treatment. Stays flexible and smooth at sustained temperatures where conventional coated sleeving turns brittle, and resists shedding and flaking in hot-air flow. Not intended as a primary electrical insulator — use as mechanical and thermal protection over pre-insulated leads. All sizes share one rating: −60 °C to +600 °C, 300–700 V, UL VW-1. Custom colors and constructions on request.

1 · Ratings & Specifications

INNER DIAMETER	WALL THICKNESS	DIELECTRIC WITHSTAND	HEAT RESISTANCE	FLAME
0.5 – 3.0 mm	0.18 ± 0.05 mm	300 – 700 V	−60 °C to +600 °C	UL VW-1
4.0 – 6.0 mm	0.30 ± 0.05 mm	300 – 700 V	−60 °C to +600 °C	UL VW-1
7.0 – 12.0 mm	0.35 ± 0.05 mm	300 – 700 V	−60 °C to +600 °C	UL VW-1
14.0 – 30.0 mm	0.43 ± 0.05 mm	300 – 700 V	−60 °C to +600 °C	UL VW-1

Ratings apply across the full size range. Wall thickness is nominal ± tolerance as shown.

2 · Typical Applications

Hot-runner systems and manifold zones in plastics processing, smelting and casting equipment, automotive engine bays and exhaust-adjacent harnesses, ovens, air-fryer and heating appliances, continuously hot machinery — anywhere lead protection must survive sustained +600 °C service while the wire inside keeps its own insulation. The smooth braid also slides easily over bundles during assembly.

3 · Compliance & Documents

Flame rating	UL VW-1

UL recognition	Not UL-filed — TGS is specified for thermal protection duty beyond UL temperature class scope; ask us for third-party test reports where required
Quality system	ISO 9001:2015 · IATF 16949:2016 · ISO 14001:2015 · ISO 45001:2018
On request	RoHS, REACH SVHC, halogen-free statements; certificate copies for supplier qualification and PPAP

WCW · Shenzhen Wahchangwei Industrial Co., Ltd. — source manufacturer since 2002. UL / CUL certified since 2003, IATF 16949:2016, exporting to 60+ countries.
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Data believed accurate as of the revision date; confirm critical values against your own qualification testing.