WCW® WAHCHANGWEI

DS-PET-2026-01
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Flame retardant

PET Expandable Braided Sleeving

PET Series · Expandable wire and harness bundling sleeve

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

Construction: braided from high-strength eco-friendly PET monofilament. Highly expandable — the sleeve stretches out to slip over connectors, plugs and assembled bundles, then closes back down for a snug fit. Flame retardant, abrasion resistant and heat dissipating; resists aging, UV and mild acid / alkali / salt exposure. This is a mechanical protection and bundling sleeve — the wires inside keep their own electrical insulation. All sizes share one rating: −60 °C to +155 °C. Standard color black; other colors, cut lengths and custom constructions on request.

1 · How to Specify — Model Code

Each model is selected from four parameters, encoded in the ordering code:

PARAMETER	MEANING
A	Number of filaments per braiding segment
B	Single-filament (monofilament) diameter
C	Number of braided strands
D	Flattened width of the sleeve

In the ordering code the leading digits encode the construction parameters A, B and C — four standard constructions per size (120 / 125 / 320 / 325 series) — and the trailing three digits give the size class D. Example: **125024** = 125-series construction, size class 24# (nominal diameter 3–6 mm).

2 · Sizes & Models

SIZE CLASS	120 SERIES	125 SERIES	320 SERIES	325 SERIES
24#	120024 · 3–6 mm	125024 · 3–6 mm	320024 · 4–8 mm	325024 · 4–8 mm
32#	120032 · 4–8 mm	125032 · 4–8 mm	320032 · 5–10 mm	325032 · 5–10 mm
36#	120036 · 5–10 mm	125036 · 5–10 mm	320036 · 6–12 mm	325036 · 6–12 mm

40#	120040 · 6–12 mm	125040 · 6–12 mm	320040 · 7–14 mm	325040 · 7–14 mm
48#	120048 · 7–14 mm	125048 · 7–14 mm	320048 · 8–16 mm	325048 · 8–16 mm
56#	120056 · 8–16 mm	125056 · 8–16 mm	320056 · 10–20 mm	325056 · 10–20 mm
64#	120064 · 9–18 mm	125064 · 9–18 mm	320064 · 12–24 mm	325064 · 12–24 mm
72#	120072 · 10–20 mm	125072 · 10–20 mm	320072 · 15–30 mm	325072 · 15–30 mm
96#	120096 · 12–24 mm	125096 · 12–24 mm	320096 · 20–40 mm	325096 · 25–50 mm
120#	120120 · 15–30 mm	125120 · 15–30 mm	320120 · 30–70 mm	325120 · 35–100 mm

Diameter ranges are nominal (minimum–maximum accommodated bundle diameter). Because the braid is expandable, one size covers a range of bundle diameters and stretches over in-line connectors during assembly.

3 · Ratings & Properties

Material	High-strength eco-friendly PET monofilament braid
Operating temperature	−60 °C to +155 °C (all sizes)
Flammability	Flame retardant, self-extinguishing
Durability	Aging resistant, UV resistant, abrasion resistant, acid / alkali / salt resistant
Function	Mechanical protection and bundling — not an electrical insulator; use over pre-insulated wires and cables
Colors	Standard black; other colors on request

4 · Typical Applications

Wire and cable bundling inside electronic and electrical equipment: automotive harnesses, PC cases, speakers, headlamps, home appliances and control cabinets. The expandable braid installs quickly over assembled harnesses — no need to thread wires through one by one — and keeps bundles tidy while letting heat escape and simplifying later rework. Also used as a covering layer combined with WCW fiberglass and silicone sleeving where a harness passes through hot or abrasive zones.

5 · Compliance & Documents

UL recognition	Not UL-filed — the PET series is specified for mechanical bundling and protection duty; 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.