



THIN WALL PRIMARY WIRE

SAE J1128

8 orderable sizes

STANDARD SAE J1128	VOLTAGE CLASS 60 V DC vehicle circuits	TEMPERATURE CLASS -40 °C to +105 °C typical class
CONDUCTOR Bare or tinned copper conductor	INSULATION / JACKET Thin wall thermoplastic insulation	CROSS-SECTION RANGE 0.35 mm ² to 8.0 mm ²

Construction

- 1 ■ **Conductor** – Bare or tinned copper conductor · 24 × Ø0.2 mm
- 2 ■ **Insulation** – PVC · Wall 0.30 mm

Size selection — all available cross-sections

Cable reference	AWG size	Approx. cross-section	No. and dia. of wires	Conductor dia. max. (mm)	Max DC resistance at 20 °C (Ω/km)	Insulation min. wall (mm)	Overall diameter approx. (mm)	Approx. cable weight (kg/km)
TWP 22 AWG	22 AWG	0.35 mm ²	12/0.20	0.77	52.0	0.25	1.27	4.4
TWP 20 AWG	20 AWG	0.5 mm ²	16/0.20	0.92	37.1	0.25	1.42	5.9
TWP 18 AWG	18 AWG	0.8 mm ²	24/0.20	1.16	23.1	0.30	1.76	9.4
TWP 16 AWG	16 AWG	1.0 mm ²	32/0.20	1.30	18.5	0.30	1.90	11.5
TWP 14 AWG	14 AWG	2.0 mm ²	37/0.26	1.84	9.25	0.35	2.54	22.1
TWP 12 AWG	12 AWG	3.0 mm ²	60/0.25	2.25	6.17	0.50	3.25	34.1
TWP 10 AWG	10 AWG	5.0 mm ²	84/0.30	2.90	3.7	0.50	3.90	54.2
TWP 8 AWG	8 AWG	8.0 mm ²	112/0.30	3.67	2.31	0.50	4.67	83.9