



HEAVY DUTY PRIMARY WIRE

SAE J1128

8 orderable sizes

STANDARD SAE J1128	VOLTAGE CLASS 60 V DC vehicle circuits	TEMPERATURE CLASS -40 °C to +80 °C typical class
CONDUCTOR Bare or tinned copper conductor	INSULATION / JACKET Heavy duty 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 0.8 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)
HDT 22 AWG	22 AWG	0.35 mm ²	12/0.20	0.77	52.0	0.8	2.37	8.8
HDT 20 AWG	20 AWG	0.5 mm ²	16/0.20	0.92	37.1	0.8	2.52	10.7
HDT 18 AWG	18 AWG	0.8 mm ²	24/0.20	1.16	23.1	0.8	2.76	14.4
HDT 16 AWG	16 AWG	1.0 mm ²	32/0.20	1.30	18.5	0.8	2.90	16.7
HDT 14 AWG	14 AWG	2.0 mm ²	37/0.26	1.84	9.25	0.8	3.44	28.0
HDT 12 AWG	12 AWG	3.0 mm ²	60/0.25	2.25	6.17	0.8	3.85	38.8
HDT 10 AWG	10 AWG	5.0 mm ²	84/0.30	2.90	3.7	0.8	4.50	59.8
HDT 8 AWG	8 AWG	8.0 mm ²	112/0.30	3.67	2.31	0.8	5.27	90.4