Flexible cords & appliance cables

HDT SAE J1128 Heavy-Duty Primary Wire

SAE J1128 / ASTM B3 Heavy-Duty Type HDT · 60 V DC · -40°C to +85°C · Min. bend 6 × OD

SAE J1128 / ASTM B3 Heavy-Duty Type HDT | 60 V DC

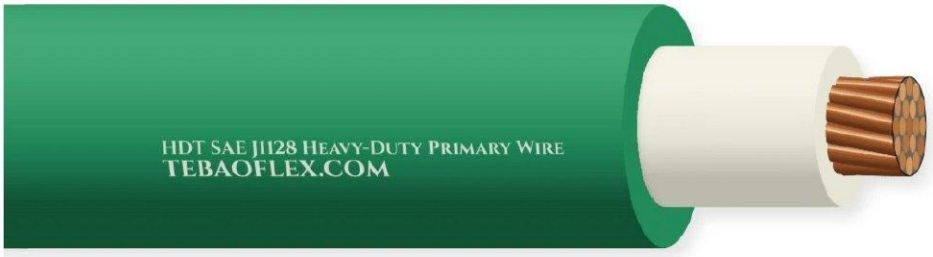


Application

HDT SAE J1128 Heavy-Duty Primary Wire manufactured to SAE J1128 / ASTM B3 Heavy-Duty Type HDT, rated 60 V DC and -40°C to +85°C with a 6 × OD minimum bending radius for industrial automation & manufacturing installations.

Typical uses: Power distribution & utility networks, Railways, tunnels & public infrastructure, Process instrumentation & oil/gas skids, Industrial automation & control cabinets, Renewable energy, marine & heavy industry

Construction





Cross-section, not to scale

1	Conductor	1×14 AWG (19/0.36 mm Soft-Annealed Bare Copper)
2	Insulation & Core Identification	SAE J1128 heavy-duty primary PVC inner dielectric
3	Screen / Bedding / Armour Layer	1.14 mm heavy-duty extruded wall concentric mechanical barrier (SAE J1128 Type HDT)
4	Outer Protective Sheath	Green heavy-duty thick-wall SAE J1128 HDT PVC insulation jacket (OD 4.10 mm)

Technical data

Typical values

Nominal / reference voltage	60 V DC	Conductor & core insulation	1×14 AWG (19/0.36 mm Soft-Annealed Bare Copper) · SAE J1128 heavy-duty primary PVC inner dielectric
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-40°C to +85°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	SAE J1128 / ASTM B3 Heavy-Duty Type HDT
Minimum bending radius	6 × OD	Screening / armour architecture	1.14 mm heavy-duty extruded wall concentric mechanical barrier (SAE J1128 Type HDT)
Outer sheath material & colour	Green heavy-duty thick-wall SAE J1128 HDT PVC insulation jacket (OD 4.10 mm)	Standards	SAE J1128 / ASTM B3 Heavy-Duty Type HDT

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 rating
HDT SAE J1128 Heavy-Duty Primary 3 sizes										
☐ HDT SAE J1128 Heavy-Duty Primary (1×14 AWG)	1×14 AWG	Class 2 Stranded Plain Copper	SAE J1128 heavy-duty primary PVC inner dielectric	Industrial PVC	4.1	25	8.70	20.8	40	15 A
☐ HDT SAE J1128 Heavy-Duty Primary (1×12 AWG)	1×12 AWG	Class 2 Stranded Plain Copper	SAE J1128 heavy-duty primary PVC inner dielectric	Industrial PVC	4.8	29	5.47	28.6	55	20 A
☐ HDT SAE J1128 Heavy-Duty Primary (1×10 AWG)	1×10 AWG	Class 2 Stranded Plain Copper	SAE J1128 heavy-duty primary PVC inner dielectric	Industrial PVC	5.7	34	3.44	39.0	75	30 A

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

Standards and approvals

- ✓ SAE J1128 / ASTM B3 Heavy-Duty Type HDT Compliant
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ CE, UKCA, 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/hdt-sae-j1128-heavy-duty-primary-wire**

Typical values for this cable type, based on Reference specification per SAE J1128 / ASTM B3 Heavy-Duty Type HDT (HDT SAE J1128 Heavy-Duty Primary). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.