

PRODUCT FAMILY DATASHEET

TINNED STEEL BANDING STRAPS

Tin-Plated Carbon Steel · MIL-T-10727C Type II, Both Sides



MADE IN THE USA

DFARS COMPLIANT

RoHS 3 / REACH

WOSB CERTIFIED

TINNED STEEL BANDING STRAPS

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1 Product Description

CoreTight™ tinned steel banding straps are precision metal strapping used to mechanically retain magnetic-component assemblies — C-core and cut-core transformers, inductors, reactors, and stacked magnetic or electronic assemblies. Applied with a pneumatic tensioning tool and secured with a matching formed seal, the strap holds controlled circumferential compression on the core stack.

Tinned (tin-coated) steel is the cost-effective, solderable choice for electronics and general C-core assembly. The hot-dip tin finish provides solderability and corrosion resistance over a low-carbon steel base.

2 Material & Metallurgy

Base metal	Cold-rolled steel 1010, low-carbon, full-hard, per ASTM A109
Coating	100% pure hot-dip tin, MIL-T-10727C Type II, both sides (tin per ASTM B339)
Solderability	MIL-STD-202 Method 208
Shelf life	36 months from date of manufacture (tin coating)

Typical properties (representative; actual results on the material certification supplied with each lot):

Property	Typical value
Tensile strength	70,000 psi min (483 MPa)
Yield strength	30,000 psi min (207 MPa)
Coating thickness	100–300 µin nominal
Electrical conductivity	Good
Service temperature	< 200°C
Density	0.284 lb/in³ (7.86 g/cm³)

3 Coating & Finish

100% pure hot-dip tin, applied to both sides per MIL-T-10727C Type II; tin per ASTM B339 (pig tin); solderable per MIL-STD-202 Method 208. Because the tin coating governs shelf life, tinned products carry a 36-month shelf life from date of manufacture. Recommended storage: 5–40°C, below 80% relative humidity, in original packaging with desiccant.

4 Dimensions & Available Sizes

Part Number	Legacy	Thickness	Width	Roll Length	Note
TC-006-187	1A	0.006"	0.187"	300 ft	—
TC-012-187	4A	0.012"	0.187"	300 ft	—
TC-006-375	2A	0.006"	0.375"	300 ft	—
TC-012-375	5A	0.012"	0.375"	300 ft	Primary
TC-012-500	6A	0.012"	0.500"	200 ft	—

Tolerances: width ±0.005" · thickness ±0.001". Custom sizes available on request.

5 Compliance & Traceability

Country of origin	Made in the USA — Hubbard, OH
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Regulatory	RoHS 3 compliant · REACH screened (253 SVHC) · WEEE · Conflict Minerals addressed
Defense / trade	DFARS 252.225-7014 specialty-metals exempt (commercial item) · ECCN EAR99
Federal identifiers	CAGE 8GNP1 · DLA NSN 5935-01-451-1377 · JCP / DD-2345 · CMMC Level 1
Quality system	QM001 Rev E (ISO 9001-based)
Business status	WOSB · WBENC certified
Traceability	Certificate of Conformance and mill / heat certifications available with shipment; lot-controlled to aerospace and defense requirements.

6 Packaging

Supplied as coils in self-dispensing cartons, each labeled with part number, dimensions, material, and lot identification.

7 Ordering Information & Notes

- Part numbers follow [Material]–[Thickness]–[Width]; tinned steel straps carry the TC prefix.
- Full engineering drawings available upon request.
- Custom sizes, seals, and pneumatic / manual tooling available.

The customer is responsible for determining the suitability of the product for its application and assumes all risk resulting from its use. Properties stated are typical for the alloy and condition and are provided for reference only; refer to the material certification supplied with each lot for actual values. All documents substantiating origin, materials, and processes are maintained on file.