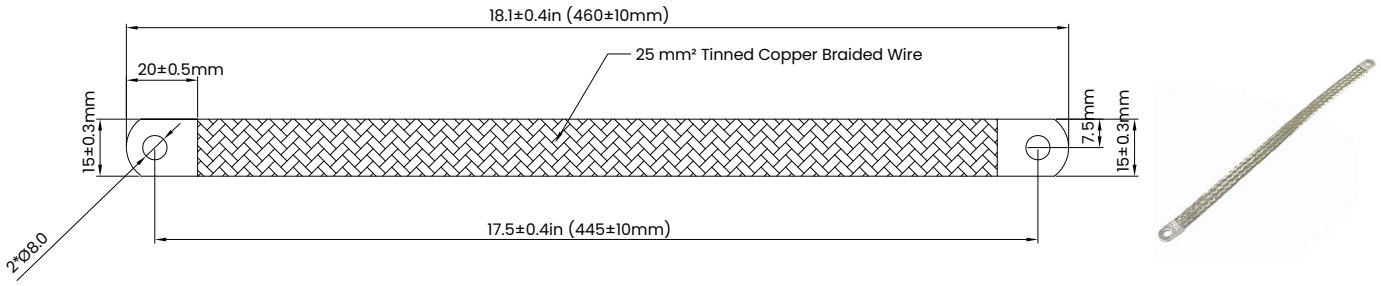
CYCLONE

CYG-NCA-BOND-STRAP-18IN
Datasheet

4AWG GROUNDING STRAP

Product Overview and Diagram



The CYG-NCA-BOND-STRAP-18IN is a premium flat braided bonding strap built to deliver dependable grounding performance in demanding environments. Constructed from 4 AWG tinned copper, it provides a flexible, low-impedance path to ground that protects equipment from static buildup, electrical faults, and lightning strikes. Its flat woven design offers greater surface area than traditional round wire, making it an excellent choice for high-frequency and AC applications while standing up to vibration, movement, and structural expansion.

Key Features

Corrosion Resistance: Electro-tin plating protects against moisture, salt spray, and outdoor exposure; prevents copper oxidation and galvanic corrosion at contacts

High-Frequency Performance: Flat braid design maximizes surface area for low RF impedance; ideal for EMI/RFI shielding and lightning protection

Vibration & Motion Tolerance: High fatigue resistance for dynamic applications (hinges, moving parts, machinery) where solid conductors fail

Pre-Terminated: Crimped heavy-duty lugs for secure, permanent connections with maximum current flow and minimal voltage drop

Technical Specifications

Wire Gauge (Equivalent)	4 AWG (American Wire Gauge)
Overall Length	18.0 inches (~457.2mm)
Braid Width	0.6 inches (~15.0mm)
Materal Composition	High-purity Tinned Copper (Cu-ETP / Electrolytic Tough Pitch)
Finish / Color	Electro-Tinned / Bright Silver Finish
Terminal Hardware	Heavy-Duty Seamless Compression Lugs (Both Ends)
Lug Stud Size / Hole Diameter	5/16 inch (~7.94 mm / M8 compatible)
Flexibility Category	High-Flexibility Woven Structure