

アメリカンスーパーコンダクター社製 Amperium wire

American Superconductor 2G HTS wire

American Superconductor 社製 Amperium Wire は、コストパフォーマンスのみならず、優れた特性を有する第二世代 HTS 線材です。

American Superconductor's Amperium wire is a 2G HTS wires with excellent properties and a high cost performance.

- HTS線材の安定性と強度向上のため線材両面に硬化銅をラミネート。
- エッジ部の半田フレットは気密性を保ち、腐食を防ぎ、電気的安定性を向上させます。
- Wire laminated on both sides with hardened copper for stabilization and strength
- Solder fillets at edges provide hermeticity, environmental protection, and enhanced electrical stability



MECHANICAL PROPERTIES	Type 8501 (4.8 mm)	Type 8502 (12 mm)
Average thickness:	0.17 mm ~ 0.21 mm	0.18 mm ~ 0.22 mm
Minimum width:	4.70 mm	11.9 mm
Maximum width:	4.95 mm	12.3 mm
Minimum double bend diameter (RT):	30 mm ⁱ	30 mm ⁱ
Minimum double bend diameter for spliced wire (RT):	100 mm ⁱ	100 mm ⁱ
Maximum rated tensile stress (RT):	150 MPa ⁱ	150 MPa ⁱ
Maximum rated wire tension (RT):	12 kg ⁱ	30 kg ⁱ
Maximum rated tensile strain (77K):	0.25 % ⁱ	0.3 % ⁱ
Maximum rated C-Axis stress:	20 MPa ⁱ	20 MPa ⁱ

ELECTRICAL PROPERTIES	Type 8501 (4.8 mm)	Type 8502 (12 mm)
Minimum amperage (Ic) ⁱⁱ	Average Engineering current density-Je (A/cm ²) ⁱⁱⁱ	Average Engineering current density-Je (A/cm ²) ⁱⁱⁱ
80 A	8,700 A/cm ²	-
90 A	9,800 A/cm ²	-
100 A	10,900 A/cm ²	-
250 A	-	10,300 A/cm ²
275 A	-	11,330 A/cm ²
300 A	-	12,360 A/cm ²
Spliced wire available in long lengths		
Insulation options: Contact factory		
Certificate of Conformance provided.		
Certificate of Analysis optionally available. Contact factory.		
Leaders and trailers optionally available. Contact factory.		

ⁱ Greater than 95% Ic retention

ⁱⁱ 77K, self-field, 1 μV/cm

ⁱⁱⁱ Je is based on average thickness and width

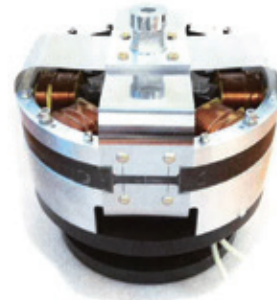
RIX社製品 スターリング式冷凍機 RIX products Stirling refrigerator



STIRLING CRYOCOOLER
Model : 2S102K
7 W@77 K



Pressure Wave Generator
Model : 2S102W



Acoustic Driver
Model : 1S241D