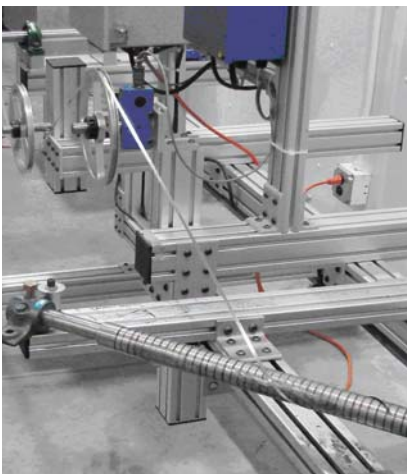


344 Superconductors

Type 344B: Brass-stabilized YBCO second generation HTS wire for high-current cable applications

- Designed for use in superconductor transmission and distribution cables, with brass providing mechanical, electrical and thermal cycling reliability
- Lengths made to order
- High strength, robust and reliable
- Thick for ease of stranding and handling
- Pre-tinned for ease of field joints



Type 344B HTS wire designed for cable manufacturing.

344 superconductors are American Superconductor's new YBCO second generation HTS wires.



Mechanical Properties:

Average thickness:	0.36 - 0.44 mm
Minimum width:	4.24 mm
Maximum width:	4.55 mm
Minimum double bend diameter (RT):	35 mm ⁱ
Maximum rated tensile stress (RT):	200 MPa ⁱ
Maximum rated wire tension (RT):	20 kg ⁱ
Maximum rated tensile strain(77K):	0.3% ⁱ

Cabling Reliability:

Designed for cabling on a wide range of formers with tight pitch and large back tension. Durable in pressure cycled liquid nitrogen, including splices and joints

Electrical Properties:

Minimum amperage (Ic)ⁱⁱ

70 A
80 A
90 A
≥100 A (Contact factory)

Spliced wire available in long lengths

Insulation options: Contact factory

Certificate of Conformance provided.

Certificate of Analysis optionally available. Contact factory.

Leaders and tailers optionally available. Contact factory.

ⁱ Greater than 95% Ic retention

ⁱⁱ 77K, self-field, 1μV/cm



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