

Cryosaver™ II Current Leads

Applications

- ▶ MRI magnets
- ▶ NMR magnets
- ▶ Beamline magnets
- ▶ Non-persistent superconducting magnets

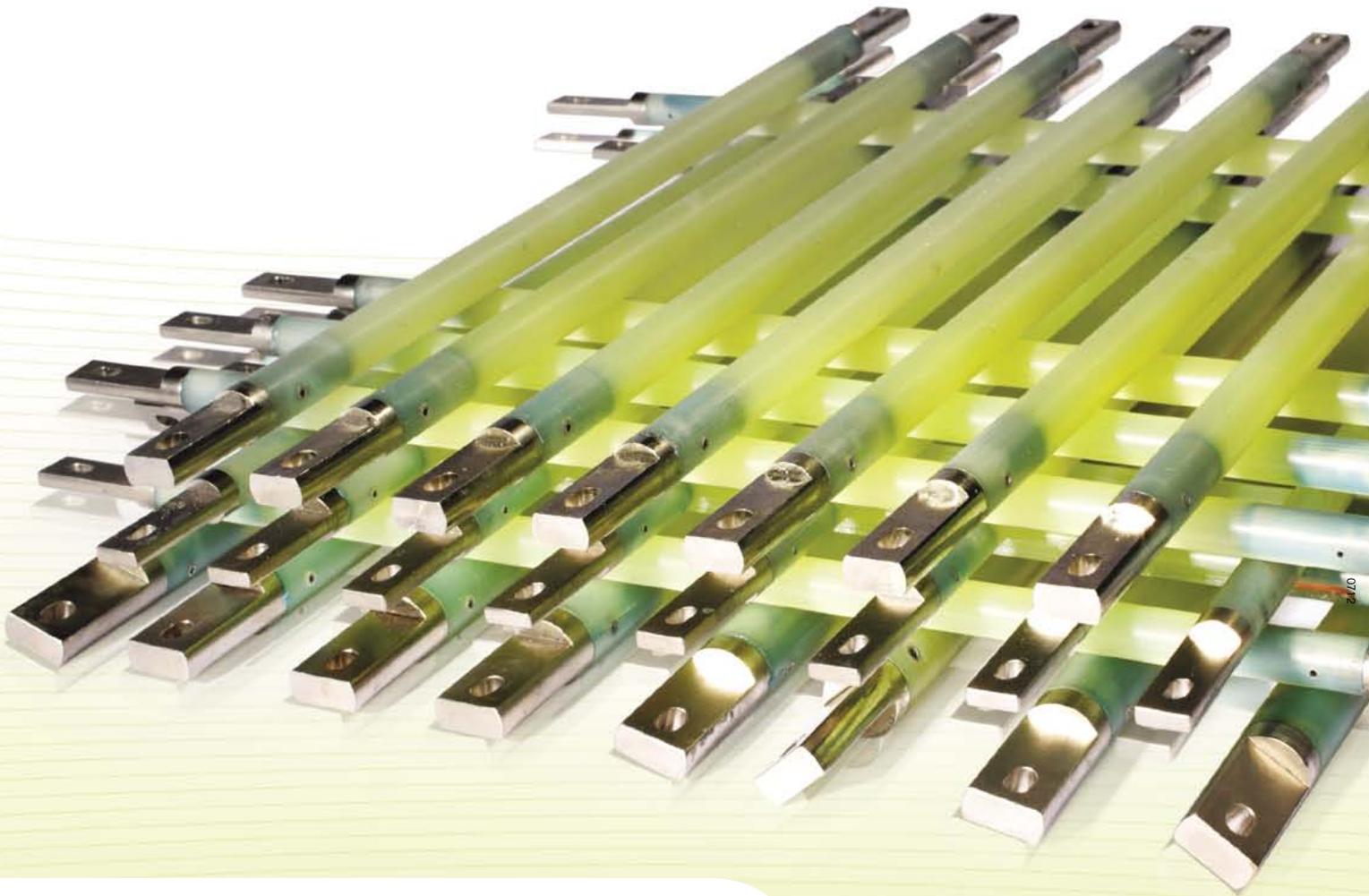
Performance and versatility

With more than a thousand units in the field, CryoSaver™ HTS current leads have demonstrated outstanding reliability for more than a decade

Cryosaver™ leads outperform competing solutions with unsurpassed build quality, mechanical strength and performance

- ▶ Improved performance and lower heat-leak*
- ▶ Field proven
- ▶ Mechanically robust
- ▶ Customisable
- ▶ 150A–2000A+

*Compared to first generation CryoSaver™ Leads



HTS-110 Magnetic Solutions

Standard and short leads

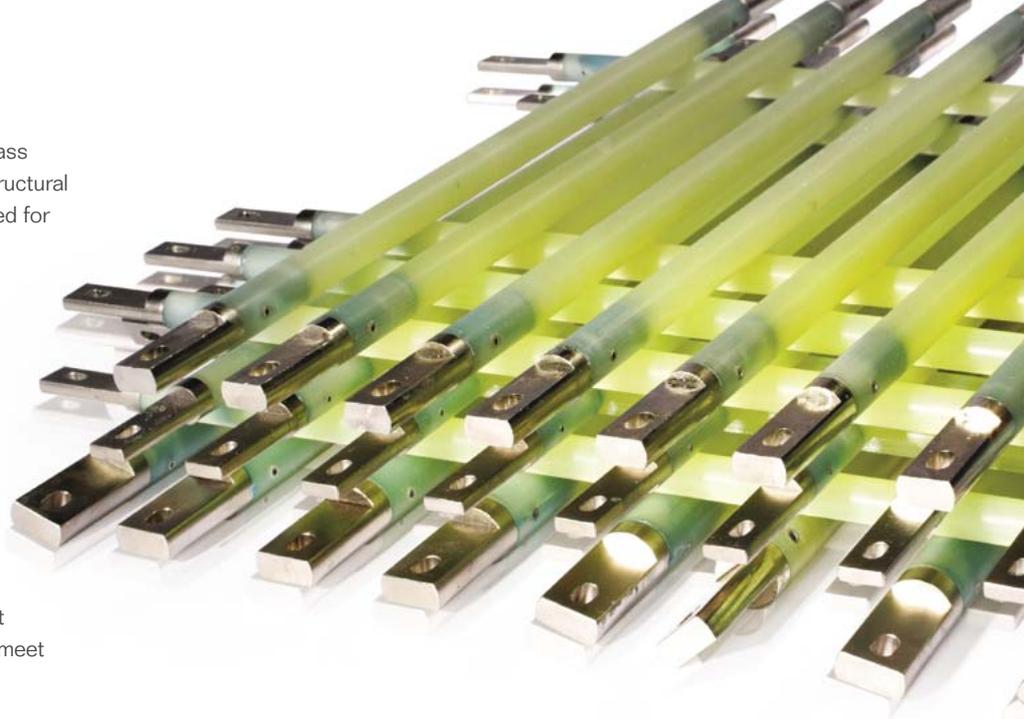
- ▶ The Standard CryoSaver™ leads use a fiberglass composite body to encase the HTS wire for structural integrity. Nickel plated copper endcaps are used for warm and cold end connections.

Hermetic leads

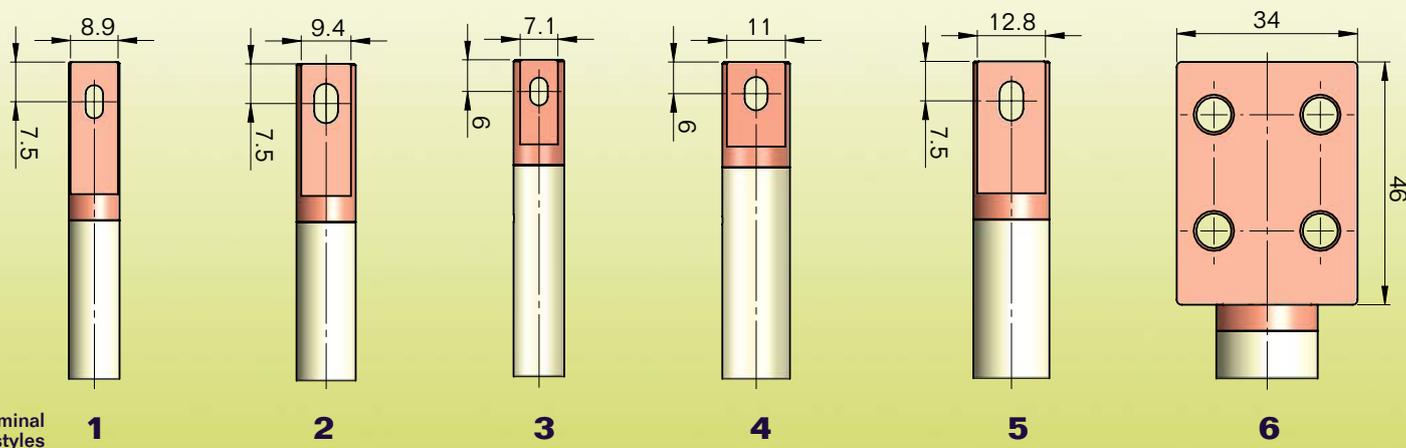
- ▶ Designed for service in cryogenic liquid or vapour, CryoSaver™ Hermetic leads utilize a thin-walled stainless steel outer body and lid to form a hermetic seal against absorption of helium into the HTS wire.

Customisation

- ▶ Current leads with custom terminals, specific dimensions, complex geometry and high current (>10kA) can be designed and manufactured to meet customer requirements.



Operating Current (at 64K)	Type	Body dia. (mm)	Overall length (mm)	Terminal			Calculated heat leak 64K-4.2K (pair)	Calculated mechanical limits		
				Style (below)	Thickness (mm)	Hole/slot Size (mm)		Comp. (N)	Tension (N)	Torsion (Nm)
150A	Standard	9.53	305	1	3.3	R1.6x3	32mW	200	1500	7
	Short	9.53	170	3	6.35	R1.6x2	56mW	—	—	—
	Hermetic	10.5	305	1	3.3	R1.6x3	50mW	—	—	—
250A	Standard	11.1	305	2	6.35	R2.2x3	57mW	400	2000	11
	Short	12.7	170	4	6.35	R2.2x2	104mW	—	—	—
	Hermetic	12.2	305	2	6.35	R2.2x3	73mW	1600	1100	3
500A	Standard	14.3	305	5	6.35	R2.2x3	130mW	1100	2500	18
	Hermetic	14.7	305	5	6.35	R2.2x3	140mW	—	—	—
1000A	Standard	19.05	347	6	9.5	R3.3	212mW	3400	4000	38
	Hermetic	TBC	347	6	9.5	R3.3	TBC	—	—	—
2000A	Standard	25.4	347	6	12.5	R3.3	338mW	8400	5000	60



Terminal styles

HTS-110 Limited

69 Gracefield Road, PO Box 31-310
 Lower Hutt, New Zealand
 T +64 4 931 3000 F +64 4 931 3344
 E info@hts-110.com
 www.hts-110.com

