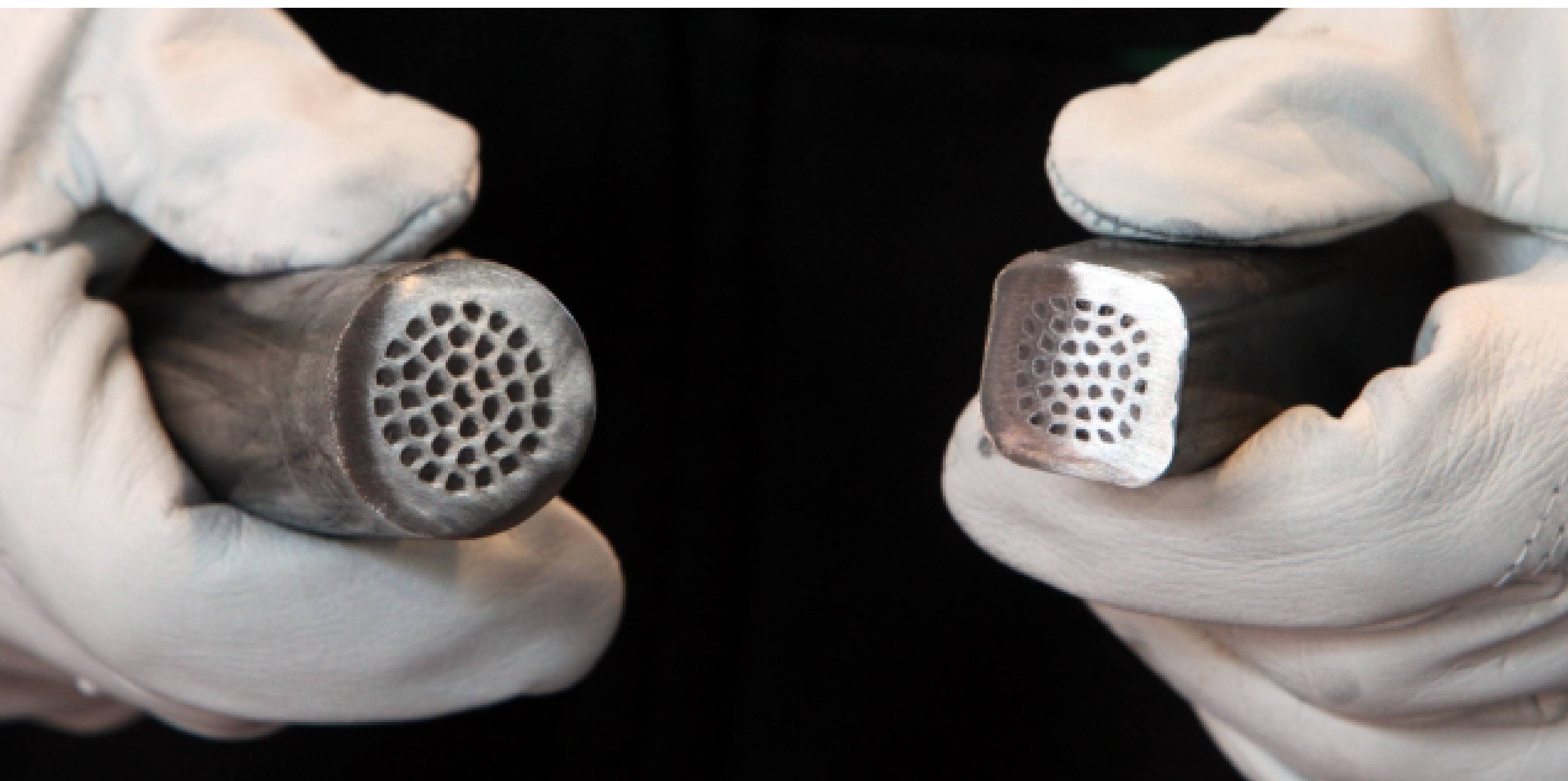


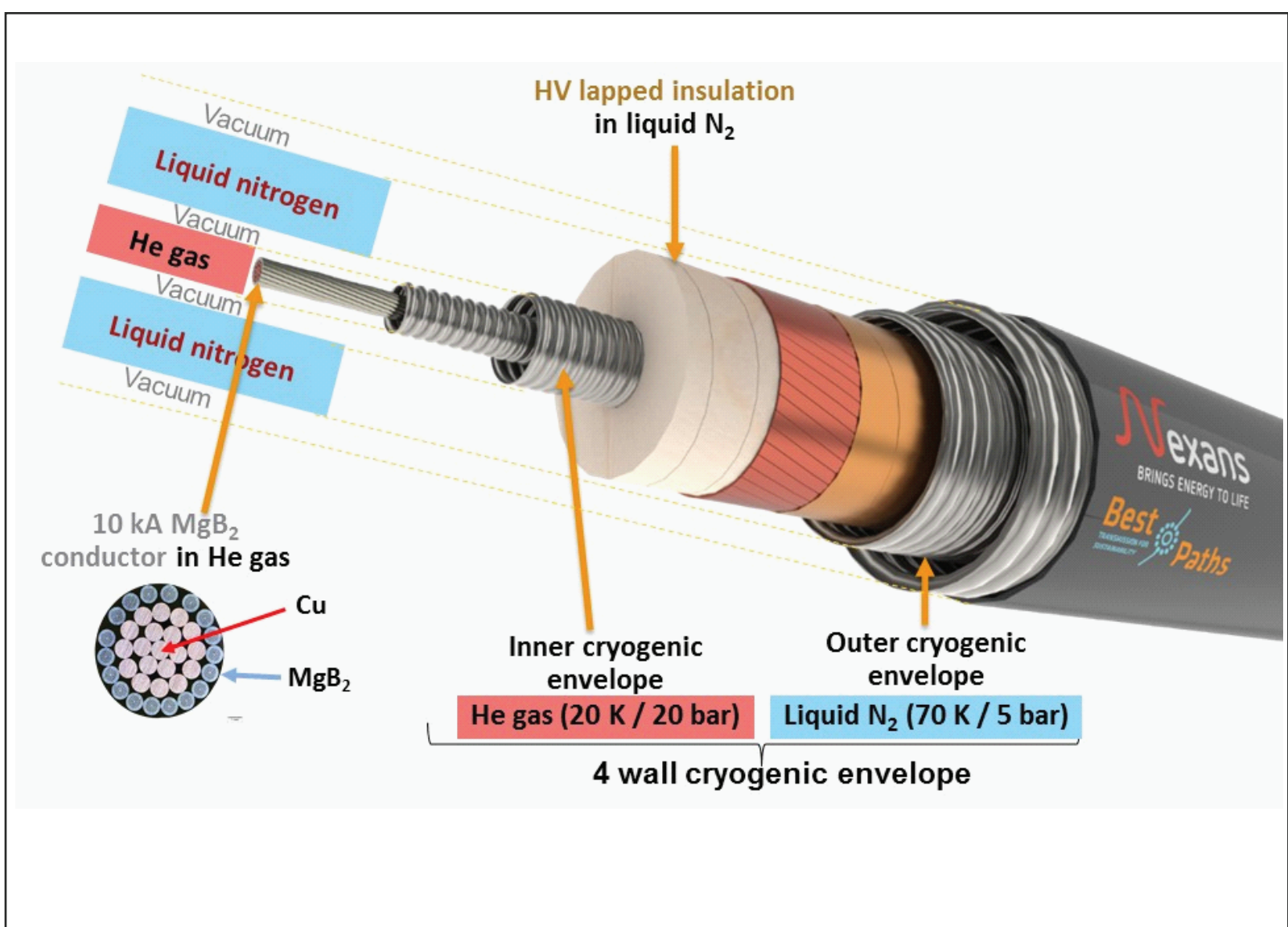
Magnesium diboride superconducting wires in multi-kilometer piece lengths for cable and magnet applications.

MgB₂ wire for cables

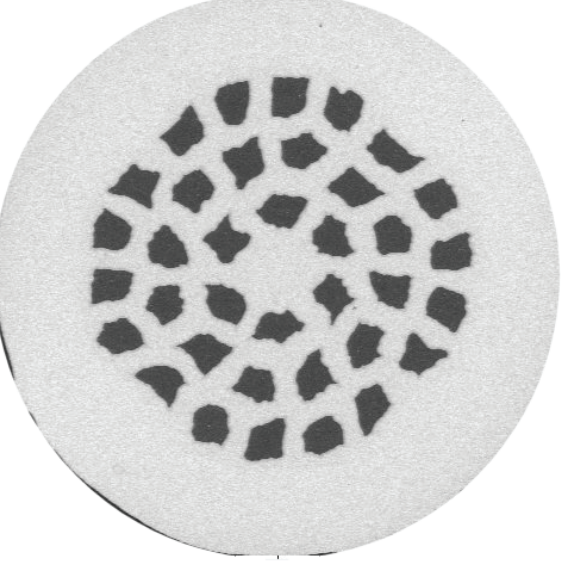
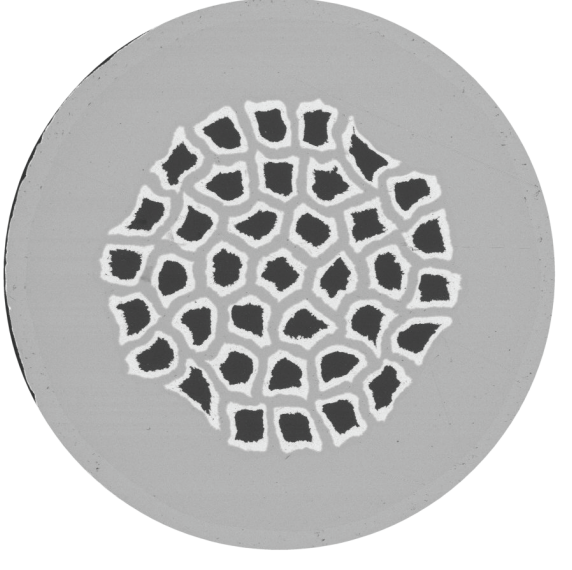
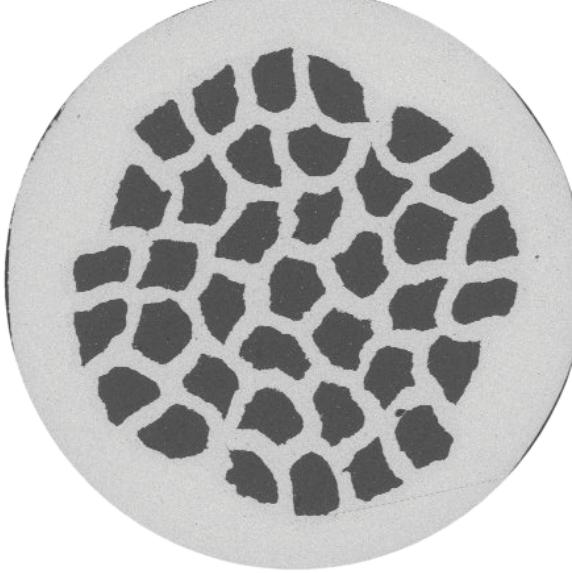
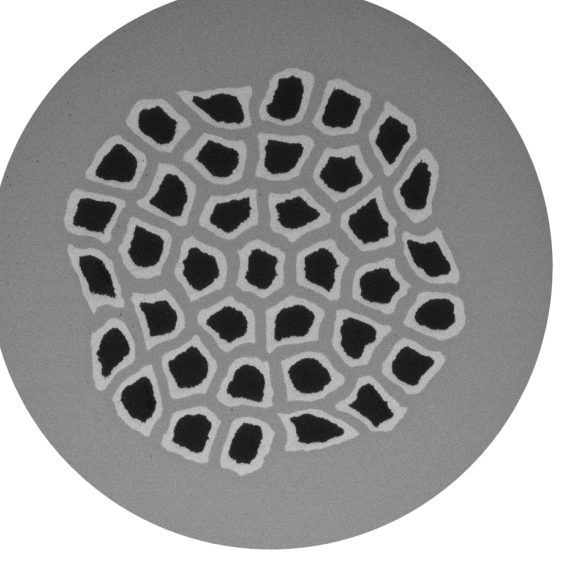
CABLING THE FUTURE OF ENERGY

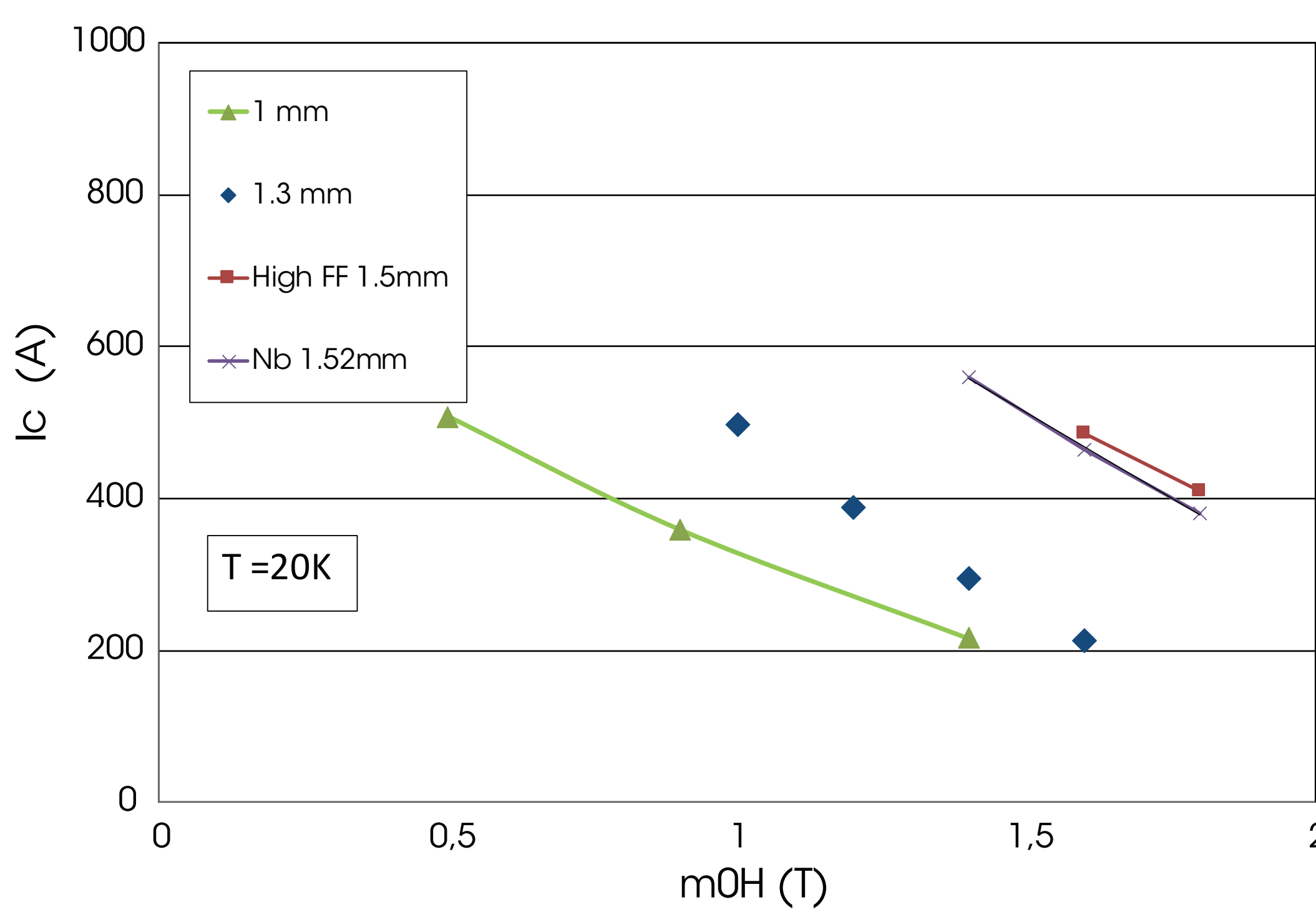


WIRES FOR HIGH CURRENT LINKS
Advanced superconducting wire for high current links



WIRES FOR HVDC TRANSMISSION LINES
Advanced superconducting wires for very high power transmission

WIRE 1	WIRE 2	PROPERTIES			
		Diameter (mm)	1.3	1	1.5
		Materials	Monel Nickel	Monel Nickel Nb	Monel Nickel Nb
		MgB2 fraction	17%	12%	30%
		Critical current at 20K, 1T	500A	300A	>650A
		Critical current at 4.2K, 3T	280	400	>700
		Critical bending radius	125	100	200
WIRE 3	WIRE 4				
					



MgB₂ wire for magnets

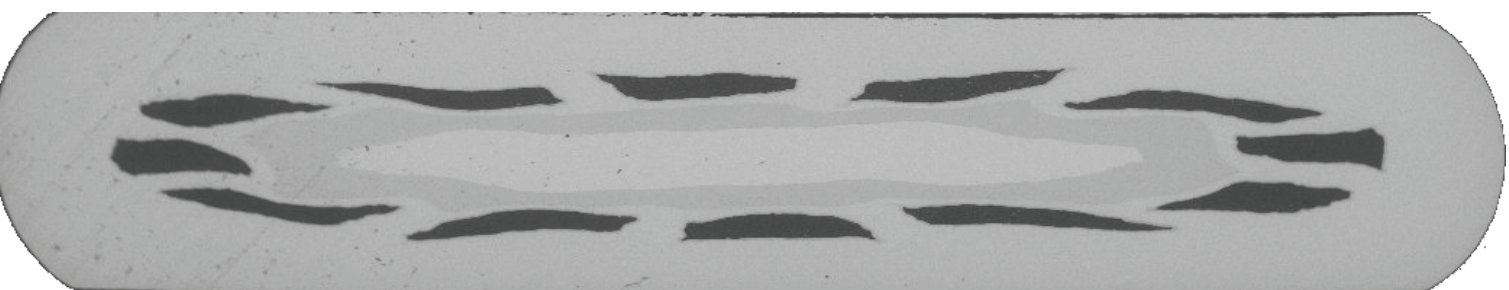
THE SHORTCUT FOR HE-FREE MAGNETS



MRO WIRE FOR CRYO-FREE MAGNETS
Multifilamentary superconducting tape for cryogen free magnets



MRO PLUS WIRE FOR CRYO-FREE MAGNETS
Improved multifilamentary superconducting tape for higher field magnets



CHEMICAL COMPOSITION	%
MgB2	12
Nickel 200 inner sheath	63
Copper inner core	15
Iron barrier	10

WIRE SPECS	
Critical current at 20K, 1T	Typically 400A (MRO) Typically 600A (MRO PLUS)
Wire dimensions before Insulation	3.65 x 0.65 mm
Filament count	12
Filament twist pitch	Typically 300 mm
Critical bending radius at zero degradation	60 mm
Critical tensile strenght at zero degradation	120 MPa
n-value	Typically >20
Unit piece length	up to 4 Km single piece

