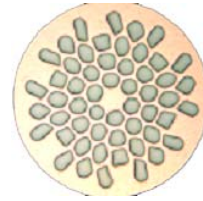


Cu Matrix NbTi Superconductor



Our 54 filament, 1.3:1 ratio NbTi conductor is the workhorse of the industry, used where high current density at modest fields and precise dimensional control is required. OST also manufactures other standard wires with Cu:SC ratio up to 7:1. Please inquire for higher ratio products.

Standard 54 Filament Strand

Matrix	Copper
Copper : s/c	1.3 : 1
RRR of Cu	>70
Twist pitch	42 ± 10 mm
Insulation	Formvar
Final size tolerance	± 6 microns

Standard 54 Filament Sizes and Ratings

	Round							Rectangular	
Dimensions (mm)									
bare	.33	.40	.50	.60	.70	.75	.85	1.0 x .6	1.2 x .75
insulated	.36	.43	.53	.63	.74	.79	.90	1.08 x .68	1.28 x .83

Ic at 4.2K (A)	Round							Rectangular	
3 Tesla	137	194						443	
4 Tesla	112	167	252					328	510
5 Tesla	94	140	213	328				232	362
6 Tesla	74	113	173	258	349	395	395	150	230
7 Tesla	55	86	134	191	260	292	310		75
8 Tesla	38		94	126	176	191	230		
9 Tesla				66	94	98	140		
10 Tesla							52		

Critical currents shown are guaranteed minima. All superconductors manufactured by OST undergo rigorous in process inspections and final performance tests. The company is certified to ISO9001-2000.



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