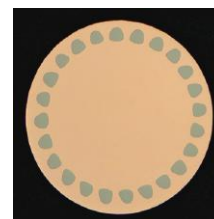


NbTi wire data sheet

● F24 round wire

Technical Details

Number of filaments	24
Cu/Sc ratio	6.5 ± 10%
Nominal dimension (bare)	from 0.60 mm to 2.30 mm
Nominal dimension after insulation and shaping	from 0.642 mm to 2.39 mm



Critical currents

Code	I_c @ 4,2 K and 0.1 $\mu\text{V}/\text{cm}$							
	2 T	3 T	4 T	5 T	6 T	7 T	8 T	9 T
F24-6.5	0.60	190	152	127				
	0.70	278	218	177				
	1.00	522	420	347	290			
	1.10	635	505	420	345			
	1.20	757	599	493	407			
	1.25	807	647	522	440	355		
	1.40	964	777	644	532	433		
	1.50	1132	900	742	612	492		
	1.72			895	745	610	470	328
	2.00			1115	915	735	565	395
	2.30			1320	1100	880	690	475

The I_c -values are examples taken from long run measurements of our standard wires.

Diameters and tolerances

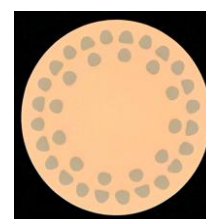
Code	Nominal diameter		Tolerance on single length (mm)	RRR	Twist Pitch (mm)	
	bare (mm)	Insulated and overdrawn (mm)				
F24-6.5	0.60	0.642 ± 0.004	± 0.002	> 100	25 ±20%	
	0.70	0.749 ± 0.004	± 0.002	> 100	25 ±20%	
	1.00	1.060 ± 0.005	± 0.002	> 100	50 ±20%	
	1.10	1.170 ± 0.005	± 0.002	> 100	50 ±20%	
	1.20	1.270 ± 0.005	± 0.002	> 100	50 ±20%	
	1.25	1.320 ± 0.006	± 0.002	> 100	50 ±20%	
	1.40	1.470 ± 0.006	± 0.002	> 100	50 ±20%	
	1.50	1.580 ± 0.006	± 0.002	> 100	50 ±20%	
	1.72	1.800 ± 0,006	± 0.002	> 100	75 ±20%	
	2.00	2.090 ± 0,007	± 0.002	> 100	75 ±20%	
	2.30	3.00	2.390 ± 0,007	± 0.002	> 100	75 ±20%

NbTi wire data sheet

● F36 round wire

Technical Details

Number of filaments	36
Cu/Sc ratio	4.0 ± 10%
Nominal dimension (bare)	from 0.60 mm to 2.00 mm
Nominal dimension after insulation and shaping	from 0.642 mm to 2.09 mm



Critical currents

Code	I_c @ 4.2 K and 0.1 μ V/cm								
	2 T	3 T	4 T	5 T	6 T	7 T	8 T	9 T	
F36-4.0	0.60		210	175	145	115			
	0.70		280	230	190	150			
	0.80		335	280	230	180			
	0.85		380	330	265	210			
	1.00	785	630	520	435				
	1.10	955	760	630	520				
	1.20	1135	900	740	610				
	1.25		970	785	660	535			
	1.40		1165	965	800	650			
	1.50		1320	1080	875	690			
	1.69				1105	875	660	450	
	2.00				1360	1090	795	540	

The I_c -values are examples taken from long run measurements of our standard wires.

Diameters and tolerances

Code	Nominal diameter		Tolerance on single length (mm)	RRR	Twist Pitch (mm)
	bare (mm)	insulated (mm)			
F36-4.0	0.60	0.642 ± 0.004	± 0.002	> 100	25 ± 20%
	0.70	0.749 ± 0.004	± 0.002	> 100	25 ± 20%
	0.80	0.850 ± 0.004	± 0.002	> 100	50 ± 20%
	0.85	0.900 ± 0.004	± 0.002	> 100	50 ± 20%
	1.00	1.060 ± 0.005	± 0.002	> 100	50 ± 20%
	1.10	1.170 ± 0.005	± 0.002	> 100	50 ± 20%
	1.20	1.270 ± 0.005	± 0.002	> 100	50 ± 20%
	1.25	1.320 ± 0.006	± 0.002	> 100	50 ± 20%
	1.40	1.470 ± 0.006	± 0.002	> 100	50 ± 20%
	1.50	1.580 ± 0.006	± 0.002	> 100	50 ± 20%
	1.69	1.780 ± 0.006	± 0.002	> 100	75 ± 20%
	2.00	2.090 ± 0.007	± 0.002	> 100	75 ± 20%

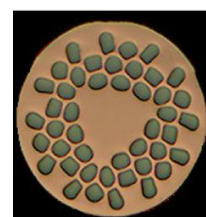
Bruker EAS GmbH
info@bruker-eas.com
www.bruker-est.com

NbTi wire data sheet

● F45 round wire

Technical Details

Number of filaments	45
Cu/Sc ratio	1.80 ± 10%
Nominal dimension (bare)	from 0.40 mm to 1.00 mm
Nominal dimension after insulation and shaping	from 0.438 mm to 1.06 mm



Critical currents

Code		I_c @ 4,2 K and 0.1 μ V/cm							
		3 T	4 T	5 T	6 T	7 T	8 T	9 T	9.5 T
F45-1.80	0.40	165	138	116	94	77	55		
	0.50	248	209	176	143	110	83		
	0.60	352	292	242	198	154	116		
	0.70	462	385	325	264	204	149		
	0.85		610	510	410	315	220		
	1.00		810	675	505	420	290		

The I_c -values are examples taken from long run measurements of our standard wires.

Diameters and tolerances

Code	Nominal diameter		Tolerance on single length (mm)	RRR	Twist Pitch (mm)
	bare (mm)	insulated (mm)			
F45-1.80	0.40	0.438 ± 0.004	± 0.002	> 100	25 ±20%
	0.50	0.542 ± 0.004	± 0.002	> 100	25 ±20%
	0.60	0.642 ± 0.004	± 0.002	> 100	25 ±20%
	0.70	0.749 ± 0.004	± 0.002	> 100	25 ±20%
	0.85	0.900 ± 0.005	± 0.002	> 100	50 ±20%
	1.00	1.060 ± 0.005	± 0.002	> 100	50 ±20%

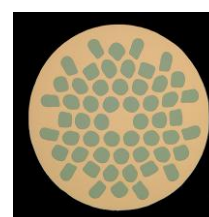
Bruker EAS GmbH
info@bruker-eas.com
www.bruker-est.com

NbTi wire data sheet

● F54 round wire

Technical Details

Number of filaments	54
Cu/Sc ratio	1.35 ± 10%
Nominal dimension (bare)	from 0.40 mm to 1.00 mm
Nominal dimension after insulation and shaping	from 0.438 mm to 1.06 mm



Critical currents

Code		I_c @ 4,2 K and 0.1 μ V/cm							
		3 T	4 T	5 T	6 T	7 T	8 T	9 T	9.5 T
F54-1.35	0.40	193	165	142	118	92	65		
	0.50	306	267	228	189	147	103		
	0.60		402	335	276	214	144		
	0.70		516	445	369	286	198	108	
	0.85			679	552	419	288	160	
	1.00			902	728	555	386	219	139

The I_c -values are examples taken from long run measurements of our standard wires.

Diameters and tolerances

Code	Nominal diameter		Tolerance on single length (mm)	RRR	Twist Pitch (mm)
	bare (mm)	insulated (mm)			
F54-1.35	0.40	0.438 ± 0.004	± 0.002	> 100	25 ±20%
	0.50	0.542 ± 0.004	± 0.002	> 100	25 ±20%
	0.60	0.642 ± 0.004	± 0.002	> 100	25 ±20%
	0.70	0.749 ± 0.004	± 0.002	> 100	25 ±20%
	0.85	0.900 ± 0.005	± 0.002	> 100	50 ±20%
	1.00	1.060 ± 0.005	± 0.002	> 100	50 ±20%