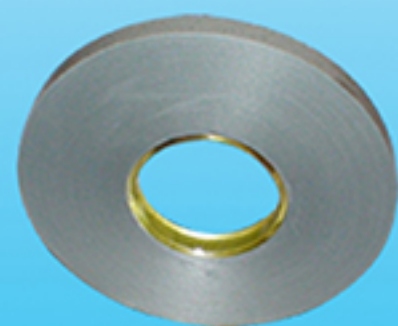


## Mika İzoleli Bakır ve Alüminyum Tel

İzolasyon Tipi	İletken Çeşidi (Bakır&Alüminyum)	İletken Kesit Alanı (mm <sup>2</sup> )		İzolasyon Sarım Şekli				Mika Sarım Bindirmesi %0.0 - %50
				1 Kat Mika	2 Kat Mika	3 Kat Mika	4 Kat Mika	
Mika		Min.	Max.	0.36 Micron	0.72 Micron	1.08 Micron	1.44 Micron	0.9 Micron
	Yuvarlak	7.00mm <sup>2</sup>	78mm <sup>2</sup>	4000 - Volt	6000 - Volt	8000 - Volt	10000 - Volt	
	Yassı	5.6mm <sup>2</sup>	100mm <sup>2</sup>	155 C	155 C	155 C	155 C	

## Mica Insulated Round & Flat Copper & Aluminum Wire

Insulated Type	Conductor Class (Cop.&Al.)	Conductor Cross Section (mm <sup>2</sup> )		Winding Insulated Of				Mica Thickness %0.0.-%50 Overlapped
				1 Layer Mika	2 Layer Mika	3 Layer Mika	4 Layer Mika	
Mika		Min.	Max.	0.36 Micron	0.72 Micron	1.08 Micron	1.44 Micron	0.9 Micron
	Round	7.00mm <sup>2</sup>	78mm <sup>2</sup>	4000 - Volt	6000 - Volt	8000 - Volt	10000 - Volt	
	Flat	5.6mm <sup>2</sup>	100mm <sup>2</sup>	155 C	155 C	155 C	155 C	



### Kullanıldığı yerler

Yüksek voltajlı motor / Jenaratör  
DC Motor / Jenaratör  
Hava geçirmez motor  
Özel tip trafolar

### Typical Applications

High Voltage Motor / Genarators  
DC Motor / Genarators  
Hermetic motors  
Special Transformes



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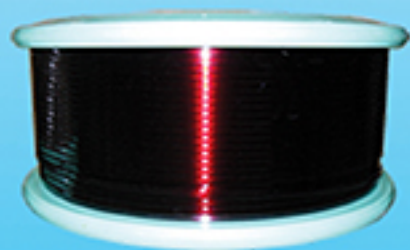
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## Emaye Üzeri Cam Elyaflı Bakır İletken Tel

İzolasyon Tipi	İletken Çeşidi (Bakır&Alüminyum)	İletken Kesit Alanı (mm <sup>2</sup> )		İzolasyon Çeşidi			İzolasyon Kalınlığı		Isı Derecesi	Voltaj Gerilimi (V)		
		Min.	Max.	Emaye Kalınlık	Cam Elyaf Kalınlık	Folyo Kalınlık	Min.	Max.		Min.	Max.	
Emaye Üzeri Cam Elyaf	Yuvarlak	0.78mm <sup>2</sup>	78mm <sup>2</sup>	0.10	0.20	0.60	—	0.30	0.70	180 C	5000V	8000V
	Yassı	5.6mm <sup>2</sup>	100mm <sup>2</sup>	0.16	0.20	0.60	—	0.30	0.70	180 C	5000V	8000V

## Enamelled over Fibre Glass Copper Conductor

Insulated Type	Conductor Class (Cop.&Al.)	Conductor Cross Section (mm <sup>2</sup> )		Insulated Class			Insulation Thickness		Heat	Voltage (V)		
		Min.	Max.	Enamelled Thickness	Fibre Glass Thickness	Polyester Thickness	Min.	Max.		Min.	Max.	
Enamelled over Fibre Glass	Wire	0.78mm <sup>2</sup>	78mm <sup>2</sup>	0.10	0.20	0.60	—	0.30	0.70	180 C	5000V	8000V
	Flat	5.6mm <sup>2</sup>	100mm <sup>2</sup>	0.16	0.20	0.60	—	0.30	0.70	180 C	5000V	8000V



### Kullanıldığı yerler

Yüksek voltajlı motor / Jenaratör  
DC Motor / Jenaratör  
Hava geçirmez motor  
Özel tip trafolar

### Typical Applications

High Voltage Motor / Genarators  
DC Motor / Genarators  
Hermetic motors  
Special Transformes



## Çift Kat Cam Elyafı Vernikli Bakır Tel

İzolasyon Tipi	İletken Çeşidi (Bakır&Alüminyum)	İletken Kesit Alanı (mm <sup>2</sup> )		İzolasyon Çeşidi			İzolasyon Kalınlığı		Isı Derecesi	Voltaj Gerilimi (V)		
				Emaye Kalınlık	Cam Elyaf Kalınlık	Folyo Kalınlık						
Çift Kat Cam Elyafı Vernikli Bakır Tel	Yuvarlak	Min.	Max.	-	Min.	Max.	—	Min.	Max.	180 C	Min.	Max.
		0.78mm <sup>2</sup>	78mm <sup>2</sup>		0.20	0.60		0.25	0.60		1500V	2000V
		5.6mm <sup>2</sup>	100mm <sup>2</sup>		0.20	0.60		0.25	0.60		1500V	2000V
Çift Kat Cam Elyafı Vernikli Bakır Tel	Yassı	Min.	Max.	-	Min.	Max.	—	Min.	Max.	180 C	Min.	Max.
		0.78mm <sup>2</sup>	78mm <sup>2</sup>		0.20	0.60		0.25	0.60		1500V	2000V
		5.6mm <sup>2</sup>	100mm <sup>2</sup>		0.20	0.60		0.25	0.60		1500V	2000V

## Double Fibre Glass Varnished Copper Conductor

Insulated Type	Conductor Class (Cop.&Al.)	Conductor Cross Section (mm <sup>2</sup> )		Insulated Class			Insulation Thickness		Heat	Voltage (V)		
				Enamelled Thickness	Fibre Glass Thickness	Polyester Thickness						
Double Fibre Glass Varnished Copper Conductor	Wire	Min.	Max.	-	Min.	Max.	—	Min.	Max.	180 C	Min.	Max.
		0.78mm <sup>2</sup>	78mm <sup>2</sup>		0.20	0.60		0.25	0.60		1500V	2000V
		5.6mm <sup>2</sup>	100mm <sup>2</sup>		0.20	0.60		0.25	0.60		1500V	2000V
Double Fibre Glass Varnished Copper Conductor	Flat	Min.	Max.	-	Min.	Max.	—	Min.	Max.	180 C	Min.	Max.
		0.78mm <sup>2</sup>	78mm <sup>2</sup>		0.20	0.60		0.25	0.60		1500V	2000V
		5.6mm <sup>2</sup>	100mm <sup>2</sup>		0.20	0.60		0.25	0.60		1500V	2000V

### Kullanıldığı yerler

Yüksek voltajlı motor / Jenaratör  
DC Motor / Jenaratör  
Hava geçirmez motor  
Özel tip trafolar

### Typical Applications

High Voltage Motor / Genarators  
DC Motor / Genarators  
Hermetic motors  
Special Transformes



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## Folyo Üzeri Çift Kat Cam Elyaf Kaplı Vernikli Tel

İzolasyon Tipi	İletken Çeşidi (Bakır&Alüminyum)	İletken Kesit Alanı (mm <sup>2</sup> )		İzolasyon Çeşidi			İzolasyon Kalınlığı		Isı Derecesi	Voltaj Gerilimi (V)		
				Emaye Kalınlık	Cam Elyaf Kalınlık	Folyo Kalınlık						
Folyo Üzeri Çift Kat Cam Elyaf Kaplı Vernikli Tel		Min.	Max.		Min.	Max.	%50 Bindirmeli	Min.	Max.		Min.	Max.
	Yuvarlak	0.78mm <sup>2</sup>	78mm <sup>2</sup>	-	0.20	0.60	0.5	0.25	0.65	180 C	2000V	5000V
	Yassı	5.6mm <sup>2</sup>	100mm <sup>2</sup>	-	0.20	0.60	0.5	0.25	0.65	180 C	2000V	5000V

## Polyester Over Double Fibre Glass Varnished Copper Conductor

Insulated Type	Conductor Class (Cop.&Al.)	Conductor Cross Section (mm <sup>2</sup> )		Insulated Class			Insulation Thickness		Heat	Voltage (V)		
				Enamelled Thickness	Fibre Glass Thickness	Polyester Thickness						
Polyester Over Double Fibre Glass Varnished Copper Conductor		Min.	Max.		Min.	Max.	%50 Overlapped	Min.	Max.		Min.	Max.
	Wire	0.78mm <sup>2</sup>	78mm <sup>2</sup>	-	0.20	0.60	0.5	0.25	0.65	180 C	2000V	5000V
	Flat	5.6mm <sup>2</sup>	100mm <sup>2</sup>	-	0.20	0.60	0.5	0.25	0.65	180 C	2000V	5000V



### Kullanıldığı yerler

Yüksek voltajlı motor / Jenaratör  
DC Motor / Jenaratör  
Hava geçirmez motor  
Özel tip trafolar

### Typical Applications

High Voltage Motor / Genarators  
DC Motor / Genarators  
Hermetic motors  
Special Transformes



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## Polyemid + Cam izoleli Bakır ve Alüminyum Tel

İzolasyon Tipi	İletken Çeşidi (Bakır&Alüminyum)	İletken Kesit Alanı (mm <sup>2</sup> )		İzolasyon Sarım Şekli				Polyemid Sarım Bindirmesi %0.0.-%50
				1 Kat Polyemid 2 Kat Cam	2 Kat Polyemid 2 Kat Cam	3 Kat Polyemid 2 Kat Cam	4 Kat Polyemid 2 Kat Cam	
Polyemid + Cam		Min.	Max.	0.15 Micron Polyemid 0.25 Micron Cam	0.30 Micron Polyemid 0.25 Micron Cam	0.45 Micron Polyemid 0.25 Micron Cam	0.60 Micron Polyemid 0.25 Micron Cam	0.05 Micron
	Yuvarlak	7.00mm <sup>2</sup>	78mm <sup>2</sup>	6000 - Volt	11000 - Volt	16000 - Volt	20000 - Volt	
	Yassı	5.6mm <sup>2</sup>	100mm <sup>2</sup>	280 C°	280 C°	280 C°	280 C°	

## Polyemide + Glass Fibre Insulated Round & Flat Copper & Aluminum Wire

Insulated Type	Conductor Class (Cop.&Al.)	Conductor Cross Section (mm <sup>2</sup> )		Winding Insulated Of				Polyemide Thickness %0.0-%50 Overlapped
				1 Layer Polyemide 2 Layer Glass	2 Layer Polyemide 2 Layer Glass	3 Layer Polyemide 2 Layer Glass	4 Layer Polyemide 2 Layer Glass	
Polyemide + Glass		Min.	Max.	0.15 Micron Polyemide 0.25 Micron Glass	0.30 Micron Polyemide 0.25 Micron Glass	0.45 Micron Polyemide 0.25 Micron Glass	0.60 Micron Polyemide 0.25 Micron Glass	0.05 Micron
	Round	7.00mm <sup>2</sup>	78mm <sup>2</sup>	6000 - Volt	11000 - Volt	16000 - Volt	20000 - Volt	
	Flat	5.6mm <sup>2</sup>	100mm <sup>2</sup>	280 C°	280 C°	280 C°	280 C°	



### Kullanıldığı yerler

Yüksek voltajlı motor / Jenaratör  
DC Motor / Jenaratör  
Hava geçirmez motor  
Özel tip trafolar

### Typical Applications

High Voltage Motor / Genarators  
DC Motor / Genarators  
Hermetic motors  
Special Transformes



## Polyemid İzoleli Bakır ve Alüminyum Tel

İzolasyon Tipi	İletken Çeşidi (Bakır&Alüminyum)	İletken Kesit Alanı (mm <sup>2</sup> )		İzolasyon Çeşidi				Polyemid Sarım Bindirmesi %00 - %50
				1 Kat Polyemid	2 Kat Polyemid	3 Kat Polyemid	4 Kat Polyemid	
Polyemid		Min.	Max.	0.15 Micron	0.30 Micron	0.45 Micron	0.60 Micron	0.5 Micron
	Yuvarlak	0.78mm <sup>2</sup>	78mm <sup>2</sup>	5000 - Volt	10000 - Volt	15000 - Volt	20000 - Volt	
	Yassı	5.6mm <sup>2</sup>	100mm <sup>2</sup>	220 C	220 C	220 C	220 C	

## Polyemide Insulated Copper & Aluminum Conductor Wire

Insulated Type	Conductor Class (Cop.&Al.)	Conductor Cross Section (mm <sup>2</sup> )		Winding Insulated Of				Polyemide Overlapped %0.0-%50
				1 Layer Polyemide	2 Layer Polyemide	3 Layer Polyemide	4 Layer Polyemide	
Polyemide		Min.	Max.	0.15 Micron	0.30 Micron	0.45 Micron	0.60 Micron	0.5 Micron
	Round	0.78mm <sup>2</sup>	78mm <sup>2</sup>	5000 - Volt	10000 - Volt	15000 - Volt	20000 - Volt	
	Flat	5.6mm <sup>2</sup>	100mm <sup>2</sup>	220 C	220 C	220 C	220 C	

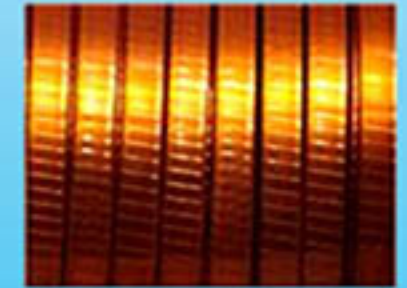


### Kullanıldığı yerler

Yüksek voltajlı motor / Jenaratör  
DC Motor / Jenaratör  
Hava geçirmez motor  
Özel tip trafolar

### Typical Applications

High Voltage Motor / Genarators  
DC Motor/ Genarators  
Hermetic motors  
Special Transformes



# Alüminyum - Al Lama

BAKIR LAMA  
YERİNE  
ALÜMİNYUM  
KULLANILIRSA

Genişlik		Kalınlık	Kesit Alanı	Ağırlık(1 metresinin kilogramı)	Uzunluk (1 kg.ının metresi)	Kesit Alanı
mm		mm	mm <sup>2</sup>	kg / m	m / kg	mm <sup>2</sup>
12	x	2	24	0,06456	15,489467	14,81
15	x	2	30	0,0807	12,391574	18,52
15	x	3	45	0,12105	8,2610492	27,78
20	x	2	40	0,1076	9,2936803	24,69
20	x	3	60	0,1614	6,1957869	37,04
20	x	5	100	0,269	3,7174721	61,73
25	x	3	75	0,20175	4,9566295	46,30
25	x	5	125	0,33625	2,9739777	77,16
30	x	3	90	0,2421	4,1305246	55,56
30	x	5	150	0,4035	2,4783147	92,59
40	x	3	120	0,3228	3,0978934	74,07
40	x	5	200	0,538	1,8587361	123,46
40	x	10	400	1,076	0,9299368	246,91
50	x	5	250	0,6725	1,4869888	154,32
50	x	10	500	1,345	0,7434944	308,64
60	x	5	300	0,807	1,2391574	185,19
60	x	10	600	1,614	0,6195787	370,37
80	x	5	400	1,076	0,929368	246,91
80	x	10	800	2,152	0,464684	493,83
100	x	5	500	1,345	0,7434944	308,64
100	x	10	1000	2,69	0,3717472	617,28
100	x	15	1500	4,035	0,2478315	925,93
120	x	10	1200	3,228	0,3097893	740,74
120	x	15	1800	4,842	0,2065262	1111,11
160	x	10	1600	4,304	0,232342	987,65
160	x	15	2400	6,456	0,1548947	1481,48

# Alüminyum - Al Tel

ALÜMİNYUM İLETKEN YERİNE KARŞILIK  
OLARAK KULLANILACAK BAKIR

Kesit Çapı		Ağırlık (1 Metresinin gramı)	Uzunluk (1 kg.ının metresi)	Direnç (1 km.sinin Ohm'u)	Uzunluk (1 Ohm'un metresi)	Direnç (1 kg.mın Ohm'u)	Kesit Çapı	Kesit Alanı
mm	mm <sup>2</sup>	gr / m	m / kg	Ω / km	m / Ω	Ω / kg	mm	mm <sup>2</sup>
0,1	0,0079	0,0211	47.313,3	4.072,7	0,2455	192,694	0,079	0,0049
0,2	0,0314	0,0845	11.828,3	1.018,2	0,9821	12,043	0,157	0,0194
0,3	0,0707	0,1902	5.257,0	452,53	2,2098	2,379	0,236	0,0437
0,4	0,1257	0,3382	2.957,1	254,55	3,9286	752,7	0,314	0,0776
0,5	0,1964	0,5284	1.892,5	162,91	6,1384	308,3	0,393	0,1213
0,6	0,2829	0,7609	1.314,3	113,13	8,8393	148,7	0,471	0,1746
0,7	0,3850	1,0357	965,58	83,117	12,031	80,26	0,550	0,2377
0,8	0,5029	1,3527	739,27	63,636	15,714	47,04	0,626	0,3104
0,9	0,6364	1,7120	584,14	50,281	19,888	29,37	0,707	0,3929
1,0	0,7857	2,1136	473,13	40,727	24,554	19,27	0,786	0,4850
1,1	0,9507	2,5574	391,02	33,659	29,710	13,16	0,864	0,5869
1,2	1,1314	3,0435	328,56	28,283	35,357	9,29	0,943	0,6984
1,3	1,3279	3,5719	279,96	24,099	41,496	6,75	1,02	0,8197
1,4	1,5400	4,1426	241,39	20,779	48,125	5,02	1,10	0,9505
1,5	1,7679	4,7555	210,28	18,101	55,246	3,81	1,18	1,0913
1,6	2,0114	5,411	184,82	15,909	62,857	2,94	1,26	1,2416
1,7	2,2707	6,108	163,71	14,092	70,960	2,31	1,34	1,4017
1,8	2,5457	6,848	146,03	12,570	79,554	1,84	1,41	1,5714
1,9	2,8364	7,630	131,06	11,282	88,638	1,48	1,49	1,7509
2,0	3,1429	8,454	118,28	10,182	98,214	1,20	1,57	1,9400
2,1	3,4650	9,321	107,29	9,2352	108,28	0,901	1,65	2,1389
2,2	3,8029	10,230	97,755	8,4147	118,84	0,823	1,73	2,3474
2,3	4,1564	11,181	89,439	7,6989	129,89	0,689	1,81	2,5657
2,4	4,5257	12,174	82,141	7,0707	141,43	0,581	1,89	2,7937
2,5	4,9107	13,210	75,701	6,5164	153,46	0,493	1,96	3,0313
2,6	5,3114	14,288	69,990	6,0247	165,98	0,422	2,04	3,2787
2,7	5,7279	15,408	64,902	5,5867	179,00	0,363	2,12	3,5357
2,8	6,1600	16,570	60,349	5,1948	192,50	0,313	2,20	3,8025
2,9	6,6079	17,775	56,258	4,8427	206,50	0,272	2,28	4,0789
3,0	7,0714	19,022	52,570	4,5253	220,98	0,238	2,36	4,3651
3,1	7,5507	20,311	49,233	4,2380	235,96	0,209	2,44	4,6609
3,2	8,0457	21,643	46,204	3,9773	251,43	0,1838	2,51	4,9665
3,3	8,5564	23,017	43,447	3,7399	267,39	0,1625	2,59	5,2817
3,4	9,0829	24,433	40,928	3,5231	283,84	0,1442	2,67	5,6067
3,5	9,6250	25,891	38,623	3,3247	300,78	0,1284	2,75	5,9414
3,6	10,183	27,392	36,507	3,1425	318,21	0,1147	2,83	6,2857
3,7	10,756	28,935	34,560	2,9750	339,14	0,1028	2,91	6,6398
3,8	11,346	30,520	32,765	2,8204	357,55	0,0924	2,99	7,0035
3,9	11,951	32,147	31,107	2,6777	373,46	0,0833	3,06	7,3770
4,0	12,571	33,817	29,571	2,5455	392,86	0,0753	3,14	7,7601
4,5	15,911	42,800	23,265	2,0112	497,21	0,04699	3,54	9,8214
5,0	19,643	52,839	18,925	1,6291	613,84	0,03083	3,93	12,125
5,5	23,768	63,936	15,641	1,3464	742,75	0,02106	4,32	14,672
6,0	28,286	76,089	13,143	1,1313	883,93	0,014487	4,71	17,460
6,5	33,196	89,298	11,198	0,9640	1.037,4	0,01079	5,11	20,492
7,0	38,500	103,57	9,6558	0,8312	1.203,1	0,00803	5,50	23,765
7,5	44,196	118,89	8,4113	0,7240	1.381,1	0,006090	5,89	27,282
8,0	50,286	135,27	7,3927	0,6364	1.571,4	0,004704	6,29	31,041
8,5	56,768	152,71	6,5486	0,5637	1.774,0	0,003691	6,68	35,042
9,0	63,643	171,20	5,8411	0,5028	1.998,8	0,002937	7,07	39,286
9,5	70,911	190,75	5,2425	0,4513	2.216,0	0,002366	7,46	43,772
10,0	78,571	211,36	4,7313	0,4373	2.455,4	0,001927	7,86	48,501

# Bakır - Cu Lama

BAKIR LAMA  
YERİNE  
ALÜMİNYUM  
KULLANILIRSA

Genişlik		Kalınlık	Kesit Alanı	Ağırlık(1 metresinin kilogramı)	Uzunluk (1 kg.ının metresi)	Kesit Alanı
mm		mm	mm <sup>2</sup>	kg / m	m / kg	mm <sup>2</sup>
12	x	2	24	0,21432	4,6659201	38,88
15	x	2	30	0,2679	3,7327361	48,6
15	x	3	45	0,40185	2,4884907	72,9
20	x	2	40	0,3572	2,7995521	64,8
20	x	3	60	0,5358	1,866368	97,2
20	x	5	100	0,893	1,1198208	162
25	x	3	75	0,66975	1,4930944	121,5
25	x	5	125	1,11625	0,8958567	202,5
30	x	3	90	0,8037	1,2442454	145,8
30	x	5	150	1,3395	0,7465472	243
40	x	3	120	1,0716	0,933184	194,4
40	x	5	200	1,786	0,5599104	324
40	x	10	400	3,572	0,2799552	648
50	x	5	250	2,2325	0,4479283	405
50	x	10	500	4,465	0,2239642	810
60	x	5	300	2,679	0,3732736	486
60	x	10	600	5,358	0,1866368	972
80	x	5	400	3,572	0,2799552	648
80	x	10	800	7,144	0,1399776	1296
100	x	5	500	4,465	0,2239642	810
100	x	10	1000	8,93	0,1119821	1620
100	x	15	1500	13,395	0,0746547	2430
120	x	10	1200	10,716	0,0933184	1944
120	x	15	1800	16,074	0,0622123	2916
160	x	10	1600	14,288	0,0699888	2592
160	x	15	2400	21,432	0,0466592	3888

# Bakır - Cu Tel

BAKIR İLETKEN YERİNE KARŞILIK  
OLARAK KULLANILACAK ALÜMİNYUM

Kesit Çapı	Kesit Alanı	Ağırlık (1 Metresinin gramı)	Uzunluk (1 kg.ının metresi)	Direnç (1 km.sinin Ohm'u)	Uzunluk (1 Ohm'un metresi)	Direnç (1 kg.mın Ohm'u)	Kesit Çapı	Kesit Alanı
mm	mm <sup>2</sup>	gr / m	m / kg	Ω / km	m / Ω	Ω / kg	mm	mm <sup>2</sup>
0,1	0,0079	0,0702	14.252,3	2.163,6	0,4622	30.837	0,127	0,0127
0,2	0,0314	0,2807	3.563,1	540,91	1,8487	1.927	0,255	0,0509
0,3	0,0707	0,6315	1.583,6	240,40	4,1597	380,7	0,382	0,1146
0,4	0,1257	1,1226	890,77	135,23	7,3950	120,5	0,509	0,2037
0,5	0,1964	1,7541	570,09	86,545	11,555	49,34	0,636	0,3182
0,6	0,2829	2,5259	395,90	60,101	16,639	23,79	0,764	0,4582
0,7	0,3850	3,4381	290,86	44,156	22,647	12,84	0,891	0,6237
0,8	0,5029	4,4905	222,69	33,807	29,580	7,53	1,02	0,8146
0,9	0,6364	5,683	175,95	26,712	37,437	4,70	1,15	1,0310
1,0	0,7857	7,016	142,52	21,636	46,218	3,08	1,27	1,2729
1,1	0,9507	8,490	117,79	17,881	55,924	2,11	1,40	1,5402
1,2	1,1314	10,104	98,974	15,025	66,555	1,49	1,53	1,8329
1,3	1,3279	11,858	84,333	12,803	78,109	1,08	1,65	2,1511
1,4	1,5400	13,752	72,716	11,039	90,588	0,803	1,78	2,4948
1,5	1,7679	15,787	63,343	9,6162	103,99	0,609	1,91	2,8639
1,6	2,0114	17,962	55,673	8,4517	118,32	0,471	2,04	3,2585
1,7	2,2707	20,277	49,316	7,4866	133,57	0,369	2,16	3,6786
1,8	2,5457	22,733	43,988	6,6779	149,75	0,294	2,29	4,1241
1,9	2,8364	25,329	39,480	5,9935	166,85	0,237	2,42	4,5950
2,0	3,1429	28,066	35,631	5,4091	184,87	0,1927	2,55	5,0914
2,1	3,4650	30,942	32,318	4,9062	203,82	0,1586	2,67	5,6133
2,2	3,8029	33,960	29,447	4,4703	223,70	0,1316	2,80	6,1606
2,3	4,1564	37,117	26,942	4,0900	244,50	0,1102	2,93	6,7334
2,4	4,5257	40,415	24,744	3,7563	266,22	0,0929	3,05	7,3317
2,5	4,9107	43,853	22,804	3,4618	288,87	0,0789	3,18	7,9554
2,6	5,3114	47,431	21,083	3,2006	312,44	0,0675	3,31	8,6045
2,7	5,7279	51,150	19,550	2,9680	336,93	0,0580	3,44	9,2791
2,8	6,1600	55,009	18,179	2,7597	262,35	0,0502	3,56	9,9792
2,9	6,6079	59,008	16,947	2,5727	388,70	0,0436	3,69	10,705
3,0	7,0714	63,148	15,836	2,4040	415,97	0,0381	3,82	11,456
3,1	7,5507	67,428	14,831	2,2514	444,16	0,0334	3,95	12,232
3,2	8,0457	71,848	13,918	2,1129	473,28	0,0294	4,07	13,034
3,3	8,5564	76,409	13,087	1,9868	503,32	0,0260	4,20	13,861
3,4	9,0829	81,110	12,329	1,8717	534,29	0,0231	4,33	14,714
3,5	9,6250	85,951	11,635	1,7662	566,18	0,0205	4,45	15,593
3,6	10,183	90,933	10,997	1,6695	598,99	0,0184	4,58	16,496
3,7	10,756	96,055	10,411	1,5805	632,73	0,0165	4,71	17,425
3,8	11,346	101,32	9,870	1,4984	667,39	0,0148	4,84	18,380
3,9	11,951	106,72	9,370	1,4225	702,98	0,0133	4,96	19,360
4,0	12,571	112,26	8,908	1,3523	739,50	0,0120	5,09	20,366
4,5	15,911	142,08	7,038	1,0685	935,92	0,00752	5,73	25,775
5,0	19,643	175,41	5,701	0,8655	1.155,5	0,00493	6,36	31,821
5,5	23,768	212,25	4,711	0,7153	1.398,1	0,00337	7,00	38,504
6,0	28,286	252,59	3,959	0,6010	1.663,9	0,00238	7,64	45,823
6,5	33,196	296,44	3,373	0,5121	1.952,7	0,00173	8,27	53,778
7,0	38,500	343,81	2,909	0,4416	2.264,7	0,00128	8,91	62,370
7,5	44,196	394,67	2,534	0,3846	2.599,8	0,000975	9,55	71,598
8,0	50,286	449,05	2,227	0,3381	2.958,0	0,000753	10,2	81,463
8,5	56,768	506,94	1,973	0,2995	3.339,3	0,000591	10,8	91,964
9,0	63,643	568,33	1,760	0,2671	3.743,7	0,000470	11,5	103,101
9,5	70,911	633,23	1,579	0,2397	4.171,2	0,000379	12,1	114,875
10,0	78,571	701,64	1,425	0,2164	4.321,8	0,000308	12,7	127,286