

APPENDIX "A"

Appendix "A"

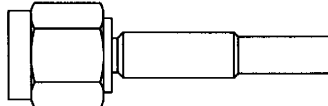
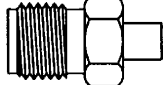

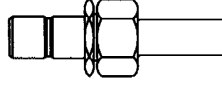
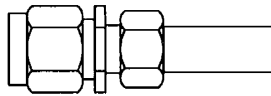
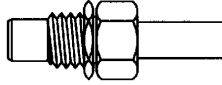
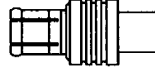
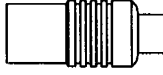
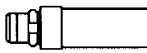
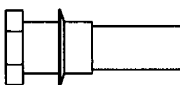
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GENDER SPECIFICATION COAX CONTACTS

SERIES	SERIES PREFIX	CENTER CONTACT	OUTER BODY	VIEW
PDM 950 MHz SLIDE-ON	15 Series Plug	Female	Male	
	15 Series Receptacle	Male	Female	
PDM 75 OHM 1.5 GHz SLIDE-ON	16 Series Plug	Female	Male	
	16 Series Receptacle	Male	Female	
PDM 50 OHM 1.5 GHz SLIDE-ON	24 Series Plug	Female	Male	
	24 Series Receptacle	Male	Female	
PKZ® BLINDMATE 32 GHz SLIDE-ON	26 Series Plug	Female	Male	
	26 Series Receptacle	Male	Female	
DIN 10 GHz SLIDE-ON	28 Series Plug	Male	Female	
	28 Series Receptacle	Female	Male	



GENDER SPECIFICATION COAX CONNECTORS

SERIES	SERIES PREFIX	CENTER CONTACT	OUTER BODY	VIEW
SMA 12.4–18 GHz THREADED	20 Series Plug	Male	Female	
	20 Series Jack	Female	Male	
SERIES	SERIES PREFIX	CENTER CONTACT	OUTER BODY	VIEW
SMB 4 GHz SNAP-ON	09 Series Plug	Female	Female	
	09 Series Jack	Male	Male	
SERIES	SERIES PREFIX	CENTER CONTACT	OUTER BODY	VIEW
SMC 10 GHz THREADED	10 Series Plug	Female	Female	
	10 Series Jack	Male	Male	
SERIES	SERIES PREFIX	CENTER CONTACT	OUTER BODY	VIEW
PCX 6 GHz SNAP-ON	13 Series Plug	Male	Male	
	13 Series Jack	Female	Female	
SERIES	SERIES PREFIX	CENTER CONTACT	OUTER BODY	VIEW
PMMX 6 GHz SNAP-ON	33 Series Plug	Male	Male	
	33 Series Jack	Female	Female	



DIELECTRIC WITHSTANDING VOLTAGE

CONTACT TYPE	PDM 16 SERIES Center Conductor to Coaxial Shell		PDM 15 SERIES PDM 24 SERIES Center Conductor to Coaxial Shell		COAXIAL SHELL to nearest Standard Solder Pot Contact		HIGH POWER Contact and/or Coaxial Shell to Plug Shell		HIGH VOLTAGE Contact to nearest Contact Shell		
	Altitude – Sea Level	90°	Straight	90°	Straight	90°	Straight	90°	Straight	90°	Straight
Avg. Flashover	1000	1300	1200	1500	●	1500	1500	1500	1500	3800	3800
Test	600	800	800	1000	●	1000	1000	1000	1000	2800	2800
Altitude (Feet/M) – 20,000/6096	90°	Straight	90°	Straight	90°	Straight	90°	Straight	90°	Straight	Straight
Avg. Flashover	700	800	900	1000	●	1500	1000	1000	1000	2300	2300
Test	400	450	600	650	●	1000	650	650	650	1700	1700
Altitude (Feet/M) – 50,000/15240	90°	Straight	90°	Straight	90°	Straight	90°	Straight	90°	Straight	Straight
Avg. Flashover	400	500	600	700	●	900	500	500	500	900	900
Test	200	275	400	475	●	600	325	325	325	675	675
Altitude (Feet/M) – 70,000/21336	90°	Straight	90°	Straight	90°	Straight	90°	Straight	90°	Straight	Straight
Avg. Flashover	200	300	400	500	●	650	500	500	500	650	650
Test	75	125	275	325	●	425	325	325	325	475	475

CRIMP TOOL INFORMATION

TYPICAL CABLE	CRIMP TOOL MILITARY P/N	DANIELS DIE SET P/N	CRIMP WITH		CABLE RETENTION (LBS.)
			HEX A	HEX B	
RG178,196	M22520/5-03	Y-196		.105	12
RG178,196	M22520/5-03	Y-196	.128		15
RG174,179,188,316	M22520/5-03	Y-196	.128		20
M17/152 (RG316 D.S.)	M22520/5-37	Y-138		.151	25
RG180,195	M22520/5-05	Y-197		.178	30
RG58,141,303	M22520/5-05	Y-197	.213		40
RG55,142,223,400	M22520/5-05	Y-197	.213		45

Consult factory for specific crimping information on High Power and Double Crimp Contacts.



CABLE SELECTION GUIDE

PHOENIX NUMBER	1200002300	RG196	1200002400	1200000700	1200001700	1200002500	1200001500
RG/U NUMBER	RG-178B/U	RG-196A/U	RG-188A/U	RG-316/U	RG-179B/U	RG-174A/U	NA (RG316DS)
M17 NUMBER	M17/93-RG178	M17/93-00001	M17/138-00001	M17/113-RG316	M17/94-RG179	M17/119-RG174	M17/152-00001
DIMENSIONS (Inches)							
Center Conductor	0.012	0.012	0.0201	0.0201	0.012	0.0189	0.0201
Dielectric	0.033	0.033	0.060	0.060	0.063	0.060	0.060
Outer Conductor	0.054	0.054	0.081	0.081	0.084	0.088	0.096
Jacket	0.071	0.071	0.098	0.098	0.100	0.110	0.114
MATERIAL							
Center Conductor	Silver-Coated Annealed Copper-Covered Steel	Silver-Coated Annealed Copper-Covered Steel	Silver-Coated Annealed Copper-Covered Steel	Silver-Coated Annealed Copper-Covered Steel	Silver-Coated Copper-Covered Steel	Copper-Covered Steel Wire	Silver-Coated Annealed Copper-Covered Steel
Dielectric	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1	PE Type A-1	PTFE Type F-1
Outer Conductor	Silver-Coated Copper Wire	Silver-Coated Copper Wire	Silver-Coated Copper Wire	Silver-Coated Copper Wire	Silver-Coated Copper Wire	Tinned Copper Wire	Silver-Coated Copper Wire
Jacket	FEP Type IX	PFA Type XIII	PFA Type XIII	FEP Type IX	FEP Type IX	PVC Type IIA	FEP Type IX
CABLE CONSTRUCTION							
Center Conductor	7 Strands of 0.0040	7 Strands of 0.0040	7 Strands of 0.0067	7 Strands of 0.0067	7 Strands of 0.0004	7 Strands of 0.0063	7 Strands of 0.0067
Dielectric	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Outer Conductor	Single-Braid of AWG 38	Single-Braid of AWG 38	Single-Braid of AWG 38	Single-Braid of AWG 38	Single-Braid of AWG 38	Single-Braid of AWG 38	Double-Braid of AWG 38
WEIGHT (Max. lbs./100 ft.)							
	0.625	0.625	1.22	1.22	1.08	0.95	1.85
TEMPERATURE RATINGS (Min. to Max., C°)							
	-55 to +200	-55 to +230	-55 to +230	-55 to +200	-55 to +200	-40 to +85	-55 to +200
FREQUENCY (Max. GHz)							
	3.0	3.0	3.0	3.0	3.0	1.0	12.4
ATTENUATION (dB/100 ft)							
Frequency (MHz)	400	400	400	400	400	400	400
	27.5	27.5	21	20	21	17.5	NA
	1000	45	45	38	30	31	40
	3000	78	78	58	58	64.3	75
	5000	115	115	NA	79	97	108
	10000	172	172	NA	133	185	170
POWER HANDLING (Watts)							
Frequency (MHz)	400	400	400	400	400	400	400
	123	123	220	240	420	25	NA
	1000	78	78	130	160	260	130
	3000	41	41	78	80	125	75
	5000	28	28	NA	57	NA	NA
	10000	14	14	NA	30	NA	45
VSWR (Max.)							
Frequency (MHz)	500	500	500	500	500	500	500
	1.2	1.2	1.16	1.15	1.22	1.1	1.1
	1000	1.25	1.25	1.2	1.2	1.24	1.15
	3000	1.5	1.5	1.33	1.33	NA	1.22
	10000	NA	NA	NA	NA	NA	1.38
VOLTAGE RATING (Volts RMS)							
Continuous Working Voltage (Max.)	750	750	900	900	900	1100	900
Voltage Withstanding (+10% -0%)	2000	2000	2000	2000	2000	2000	2000
Corona Extinction Voltage (Min.)	1200	1200	1200	1200	1200	1500	1200
CHARACTERISTIC							
Impedance (Ohms)	50	50	50	50	75	50	50
MINIMUM INSIDE BEND (Radius, In.)							
VELOCITY OF PROPAGATION (Nom., %)							
	69.5	69.5	69.5	69.5	69.5	66	69.5
SHIELDING EFFICIENCY, dB/ft.							
	40	40	40	40	40	40	60



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CABLE SELECTION GUIDE

PHOENIX NUMBER	1200003900	1200001300	1200002200	1200001400	1200006200	1200006400	1200006100
RG/U NUMBER	RG58C/U	RG-142B/U	RG-400/U	RG-223/U	T-Flex405LF	T-Flex405HF	T-Flex402LF
M17 NUMBER	M17/28-RG58	M17/60-RG142	M17/128-RG400	M17/84-RG223	N/A	N/A	N/A
DIMENSIONS (Inches)							
Center Conductor	0.0355	0.037	0.0384	0.035	0.0201	0.0201	0.0359
Dielectric	0.116	0.116	0.116	0.116	0.064	0.064	0.118
Outer Conductor	0.150	0.171	0.171	0.176	0.085	0.085	0.141
Jacket	0.195	0.195	0.195	0.212	0.104	0.104	0.16
MATERIAL							
Center Conductor	Tinned Copper Wire	Silver-Coated Copper-Covered Steel Wire	Silver-Coated Copper Wire	Silver-Coated Copper Wire	Silver Coated Copper Covered Steel	Silver Coated Copper Covered Steel	Silver Covered Copper
Dielectric	PE Type A-1	PTFE Type F-1	PTFE Type F-1	PE Type A-1	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1
Outer Conductor	Tinned Copper Wire	Silver-Coated Copper Wire	Silver-Coated Wire	Silver-Coated Copper Wire	Silver Coated Copper	Silver Coated Copper	Silver Coated Copper
Jacket	PVC Type IIA	FEP Type IX	FEP Type IX	PVC Type IIA	FEP	FEP	FEP
CABLE CONSTRUCTION							
Center Conductor	19 Strands of 0.0077	Solid	19 Strands of 0.0077	Solid	Solid	Solid	Solid
Dielectric	Solid	Solid	Solid	Solid			
Outer Conductor	Single-Braid of AWG 36	Double-Braid of AWG 36	Double-Braid of AWG 36	Double-Braid of AWG 36	Helical Wrap/Braid	Helical Wrap/Braid	Helical Wrap/Braid
WEIGHT (Max. lbs./100 ft.)							
	2.6	4.3	5.0	4.1	1.5	1.5	3.5
TEMPERATURE RATINGS (Min. to Max., C°)							
	-40 to +85	-55 to +200	-55 to +200	-40 to +85	-65 to +125	-65 to +125	-65 to +125
FREQUENCY (Max. GHz)							
	1.0	12.4	12.4	12.4	2	40	2
ATTENUATION (dB/100 ft)							
Frequency (MHz) 400	11	8	8	8.8	13.7	13.7	7.2
1000	20	13	13	16.5	23	23	13
3000	41	26	26	36		39.3	
5000	NA	36	36	51		51.5	
10000	NA	62	62	85		76	
POWER HANDLING (Watts)							
Frequency (MHz) 400	75	1100	1100	90	310	310	720
1000	44	650	650	53	190	190	440
3000	22	350	350	28		110	
5000	15	245	245	20		80	
10000	NA	140	140	10		50	
VSWR (Max.)							
Frequency (MHz) 500	1.12	1.15	1.14	1.12	1.15	1.15	1.15
1000	1.14	1.17	1.17	1.15		1.15	
3000	NA	1.33	1.33	1.19		1.25	
10000	NA	NA	1.33	1.22		1.25	
VOLTAGE RATING (Volts RMS)							
Continuous Working Voltage (Max.)	1400	1400	1400	1400	1500	1500	1900
Voltage Withstanding (+10% -0%)	5000	5000	3000	5000			
Corona Extinction Voltage (Min.)	1900	1900	1900	1900			
CHARACTERISTIC							
Impedance (Ohms)	50	50	50	50	50	50	50
MINIMUM INSIDE BEND (Radius, In.)							
					0.5	0.5	0.8
VELOCITY OF PROPAGATION (Nom., %)							
	66	69.5	69.5	66	70	70	70
SHIELDING EFFICIENCY, dB/ft.							
	40	60	60	60	> 100	> 100	> 100



CABLE SELECTION GUIDE

PHOENIX NUMBER	1200007700	1300050300	1300050500	1300050600	1300053100	1300051700	1300051800
RG/U NUMBER	T-Flex402HF	NA (.047SR)	RG-405/U	.086 Tin Copper	.086 Al. Jacket	RG-402/U	.141 Tin Copper
M17 NUMBER	N/A	M17/151-00001	M17/133-RG405	M17/133-00001	M17/133-00013	M17/130-RG402	M17/130-00001
DIMENSIONS (Inches)							
Center Conductor	0.0359	0.0113	0.0201	0.0201	0.0201	0.0362	0.0362
Dielectric	0.118	0.037	0.066	0.066	0.066	0.1175	0.1175
Outer Conductor	0.141	0.047	0.0865	0.0865	0.0865	0.141	0.141
Jacket	0.160	None	None	None	None	None	None
MATERIAL							
Center Conductor	Silver Covered Copper	Silver-Coated Copper Clad Steel	Silver-Coated Copper Clad Steel	Silver-Coated Copper-Clad Steel	Silver-Coated Copper-Clad Steel	Silver-Coated Copper Clad Steel	Silver-Coated Copper-Clad Steel
Dielectric	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1	PTFE Type F-1
Outer Conductor	Silver Coated Copper	Copper-Tube	Copper-Tube	Copper Tubing Tin Plated	Tin Plated Aluminum Tube	Copper-Tube	Copper Tubing
Jacket	FEP	None	None	None	None	None	None
CABLE CONSTRUCTION							
Center Conductor	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Dielectric	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Outer Conductor	Helical Wrap/Braid	Solid	Solid	Solid	Solid	Solid	Solid
WEIGHT (Max. lbs./100 ft.)							
	3.5	0.45	1.53	1.58	0.8	3.44	
TEMPERATURE RATINGS (Min. to Max., C°)							
	-65 to +125	-40 to +100	-40 to +125	-40 to +125	-40 to +125	-40 to +125	-40 to +125
FREQUENCY (Max. GHz)							
	18	110	40	60	60	20.0	20
ATTENUATION (dB/100 ft)							
Frequency (MHz)	400	NA	13.5			7.1	
	1000	40	22	22		12	19
	3000	70	37	65		21	31
	5000	90	52	50		29	39
	10000	130	80	80		45	52
POWER HANDLING (Watts)							
Frequency (MHz)	400	NA	220			650	650
	1000	32	130	130	34	450	450
	3000	18	74			250	250
	5000	13	54	54	65	180	180
	10000	9	35	35	90	120	120
VSWR (Max.)							
Frequency (MHz)	500	1.08	1.08	1.08		1.07	
	1000	1.17	1.09	1.09		1.08	
	3000	1.19	1.13	1.12		1.12	
	10000	1.29	1.22	1.22		1.17	
VOLTAGE RATING (Volts RMS)							
Continuous Working Voltage (Max.)	1900	1000	1500	1500	1500	1900	1900
Voltage Withstanding (+10% -0%)		2000	5000	5000	5000	5000	5000
Corona Extinction Voltage (Min.)		1000	1500	1500	1500	1900	1900
CHARACTERISTIC							
Impedance (Ohms)	50	50	50	50	50	50	50
MINIMUM INSIDE BEND (Radius, In.)							
	0.8	.125"	0.125	0.125		0.25	
VELOCITY OF PROPAGATION (Nom., %)							
	70	69.5	69.5	69.5	69.5	69.5	69.5
SHIELDING EFFICIENCY,dB/ft.							
	> 100	> 100	> 100	> 100	> 100	> 100	> 100



CABLE SELECTION GUIDE

PHOENIX NUMBER	1300053200	1300054900	1300053700	1200006500	1200007600	1200007800	1200007300
RG/U NUMBER	.141 Al. jacket	.141 Al. low loss	.250 Al. jacket	LMR200	LMR240	LMR400	LMR600
M17 NUMBER	M17/130-00009	NA	NA	NA	NA	NA	NA
DIMENSIONS (Inches)							
Center Conductor	0.0382	0.0403	0.0641	0.044	0.056	0.109	0.176
Dielectric	0.1175	0.118	0.209	0.116	0.15	0.285	0.455
Outer Conductor	0.141	0.141	0.250	0.144	0.178	0.320	0.490
Jacket	None	None	None	0.195	0.24	0.405	0.590
MATERIAL							
Center Conductor	Silver-Coated Copper-Clad Steel	Silver-Coated Copper Wire	Silver-Coated Copper Wire	Bare Copper	Bare Copper	Copper Clad Aluminum	Copper Clad Aluminum
Dielectric	PTFE Type F-1	Extended PTFE	PTFE Type F-1	Foam Poly.	Foam Poly.	Foam Poly.	Foam Poly.
Outer Conductor	Tin Plated, Aluminum Tube	Tin Plated, Aluminum Tube	Tin Plated, Aluminum Tube	Bonded Tape w/Tin Copper Over-braid	Bonded Tape w/Tin Copper Over-braid	Bonded Tape w/Tin Copper Over-braid	Bonded Tape w/Tin Copper Over-braid
Jacket	None	None	None	UV Protected Poly	UV Protected Poly	UV Protected Poly	UV Protected Poly.
CABLE CONSTRUCTION							
Center Conductor	Solid	Solid	Solid	Solid	Solid	Solid	Solid
Dielectric	Solid	Extended PTFE	Solid	Closed Cell Foam	Closed Cell Foam	Closed Cell Foam	Closed Cell Foam
Outer Conductor	Solid	Solid	Solid	Tape Braid Composite	Tape Braid Composite	Tape Braid Composite	Tape Braid Composite
WEIGHT (Max. lbs./100 ft.)							
		1.98	5.2	3	4	9	1.3
TEMPERATURE RATINGS (Min. to Max., C°)							
	-40 to +125	-40 to +125	-40 to +200	-40 to +85	-40 to +85	-40 to +85	-40 to +85
FREQUENCY (Max. GHz)							
	20	36	20				
ATTENUATION (dB/100 ft)							
Frequency (MHz) 400				6.6	5	2.6	1.6
1000		10	8	10.5	7.7	4.2	2.7
3000							
5000							
10000		34	34				
POWER HANDLING (Watts)							
Frequency (MHz) 400				280	410	920	1400
1000		900	1400	170	250	570	920
3000							
5000							
10000		200	350				
VSWR (Max.)							
Frequency (MHz) 500							
1000							
3000							
10000							
VOLTAGE RATING (Volts RMS)							
Continuous Working Voltage (Max.)	1900			300	400	750	1200
Voltage Withstanding (+10% -0%)	5000	5000	4000				
Corona Extinction Voltage (Min.)	1900	1900	1400				
CHARACTERISTIC							
Impedance (Ohms)	50	50	50	50	50	50	50
MINIMUM INSIDE BEND (Radius, In.)							
		0.625	0.25	0.5	0.75	1	1.5
VELOCITY OF PROPAGATION (Nom., %)							
	69.5	76	69.5	83	84	85	87
SHIELDING EFFICIENCY, dB/ft.							
	> 100	> 100	> 100	90	90	90	90



CABLE SELECTION GUIDE

Definitions / Abbreviations

AWG	(American Wire Gage) - A standard system for designating wire diameter.
Continuous Working Voltage	The designated rms voltage that the cable can support continuously under specified conditions.
Corona	The ionization of surrounding air by high voltage sometimes appearing as a luminous color on the surface of a conductor.
FEP	Fluorinated ethylene propylene.
FEP (Type IX)	Extruded, fluorinated ethylene propylene (FEP) transparent enough to permit the reading of marking tape through the jacket.
Foam Poly.	Low loss, closed cell polyethylene foam
MIL-C-17	Cables, radio frequency, flexible and semi-rigid, general specification. A military specification approved for use by all departments and agencies of the Dept. of Defense.
NA	Not available.
PE	Polyethylene.
PE (Type A-1)	Solid polyethylene (PE) conforming to L-P-390, Type II, Class I, Grade 3, low-density type.
PFA	Perfluoroalkoxy.
PFA (Type XIII)	Perfluoroalkoxy (PFA) in accordance with ASTM D-3307, Type I, having a tensile strength of 3,000 lb/(in-in), and a minimum elongation of 275%.
Power Handling	Based on the center conductor temperatures when power is applied versus the temperature rating of the material.
PTFE	Polytetrafluoroethylene.
PTFE (Type F-1)	Solid, extruded polytetrafluoroethylene(PTFE), conforming to ASTM D1457.
PVC (Type IIA)	Non-contaminating type of medium-low-temperature, plasticized or compounded, Polyvinylchloride (PVC), or Polyvinylchloride-acetate in accordance with Mil-I-3930, Type JP, and colored black.
Silver-Coated Copper Clad Steel Wire	Conforming to ASTM B-501, Class 40HS or 40A, except the thickness of silver coating shall not be less than 0.000040 inches.
Silver-Coated Copper Wire	Conforming to ASTM B-298, except the thickness of the silver coating shall not be less than 0.000040 inches.
Tape Braid Composite	Aluminum Laminated Tape bonded to the Dielectric with a Tinned Copper Composite Overbraid.
UV Protected Poly.	Black, UV Protected Polyethylene.
VSWR	The ratio between the maximum and the minimum voltage along a transmission line. It is directly related to Return Loss. VSWR is a scalar quantity giving an indication of transmission line quality.

References

Haverhill Cable & Manufacturing Corp., Haverhill, MA

Times Microwave Systems, Wallingford, CT

***LMR and T-Flex Cables are registered Trademarks of Times Microwave Systems

MIL-C-17 Revision E, National Standards Association, Gaithersburg, MD



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555 Pond Drive ■ Wood Dale, IL 60191-1192 ■ Toll Free (800)323-9562

VSWR & TRANSMITTED POWER RELATIONSHIPS

VSWR	VSWR (dB)	Return Loss (dB)	Insertion Loss (dB)	Volt. Refl. Coeff.	Power Trans. (%)	Power Refl. (%)	VSWR	VSWR (dB)	Return Loss (dB)	Insertion Loss (dB)	Volt. Refl. Coeff.	Power Trans. (%)	Power Refl. (%)
1.00	.0		.000	.00	100.0	.0	1.64	4.3	12.3	.263	.24	94.1	5.9
1.01	.1	46.1	.000	.00	100.0	.0	1.66	4.4	12.1	.276	.25	93.8	6.2
1.02	.2	40.1	.000	.01	100.0	.0	1.68	4.5	11.9	.289	.25	93.6	6.4
1.03	.3	36.6	.001	.01	100.0	.0							
1.04	.3	34.2	.002	.02	100.0	.0	1.70	4.6	11.7	.302	.26	93.3	6.7
							1.72	4.7	11.5	.315	.26	93.0	7.0
1.05	.4	32.3	.003	.02	99.9	.1	1.74	4.8	11.4	.329	.27	92.7	7.3
1.06	.5	30.7	.004	.03	99.9	.1	1.76	4.9	11.2	.342	.28	92.4	7.6
1.07	.6	29.4	.005	.03	99.9	.1	1.78	5.0	11.0	.356	.28	92.1	7.9
1.08	.7	28.3	.006	.04	99.9	.1							
1.09	.7	27.3	.008	.04	99.8	.2	1.80	5.1	10.9	.370	.29	91.8	8.2
							1.82	5.2	10.7	.384	.29	91.5	8.5
1.10	.8	26.4	.010	.05	99.8	.2	1.84	5.3	10.6	.398	.30	91.3	8.7
1.11	.9	25.7	.012	.05	99.7	.3	1.86	5.4	10.4	.412	.30	91.0	9.0
1.12	1.0	24.9	.014	.06	99.7	.3	1.88	5.5	10.3	.426	.31	90.7	9.3
1.13	1.1	24.3	.016	.06	99.6	.4							
1.14	1.1	23.7	.019	.07	99.6	.4	1.90	5.6	10.2	.440	.31	90.4	9.6
							1.92	5.7	10.0	.454	.32	90.1	9.9
1.15	1.2	23.1	.021	.07	99.5	.5	1.94	5.8	9.9	.468	.32	89.8	10.2
1.16	1.3	22.6	.024	.07	99.5	.5	1.96	5.8	9.8	.483	.32	89.5	10.5
1.17	1.4	22.1	.027	.08	99.4	.6	1.98	5.9	9.7	.497	.33	89.2	10.8
1.18	1.4	21.7	.030	.08	99.3	.7							
1.19	1.5	21.2	.033	.09	99.2	.8	2.00	6.0	9.5	.512	.33	88.9	11.1
							2.50	8.0	7.4	.881	.43	81.6	18.4
1.20	1.6	20.8	.036	.09	99.2	.8	3.00	9.5	6.0	1.249	.50	75.0	25.0
1.21	1.7	20.4	.039	.10	99.1	.9	3.50	10.9	5.1	1.603	.56	69.1	30.9
1.22	1.7	20.1	.043	.10	99.0	1.0	4.00	12.0	4.4	1.938	.60	64.0	36.0
1.23	1.8	19.7	.046	.10	98.9	1.1							
1.24	1.9	19.4	.050	.11	98.9	1.1	4.50	13.1	3.9	2.255	.64	59.5	40.5
							5.00	14.0	3.5	2.553	.67	55.6	44.4
1.25	1.9	19.1	.054	.11	98.8	1.2	5.50	14.8	3.2	2.834	.69	52.1	47.9
1.26	2.0	18.8	.058	.12	98.7	1.3	6.00	15.6	2.9	3.100	.71	49.0	51.0
1.27	2.1	18.5	.062	.12	98.6	1.4	6.50	16.3	2.7	3.351	.73	46.2	53.8
1.28	2.1	18.2	.066	.12	98.5	1.5							
1.29	2.2	17.9	.070	.13	98.4	1.6	7.00	16.9	2.5	3.590	.75	43.7	56.2
							7.50	17.5	2.3	3.817	.76	41.5	58.2
1.30	2.3	17.7	.075	.13	98.3	1.7	8.00	18.1	2.2	4.033	.78	39.5	60.5
1.32	2.4	17.2	.083	.14	98.1	1.9	8.50	18.6	2.1	4.240	.79	37.7	62.3
1.34	2.5	16.8	.093	.15	97.9	2.1	9.00	19.1	1.9	4.437	.80	36.0	64.0
1.36	2.7	16.3	.102	.15	97.7	2.3							
1.38	2.8	15.9	.112	.16	97.5	2.5	9.50	19.6	1.8	4.626	.81	34.5	65.5
							10.00	20.0	1.7	4.807	.82	33.1	66.9
1.40	2.9	15.6	.122	.17	97.2	2.8	11.00	20.8	1.6	5.149	.83	30.6	69.4
1.42	3.0	15.2	.133	.17	97.0	3.0	12.00	21.6	1.5	5.466	.85	28.4	71.6
1.44	3.2	14.9	.144	.18	96.7	3.3	13.00	22.3	1.3	5.752	.86	26.5	73.5
1.46	3.3	14.6	.155	.19	96.5	3.5							
1.48	3.4	14.3	.166	.19	96.3	3.7	14.00	22.9	1.2	6.040	.87	24.9	75.1
							15.00	23.5	1.2	6.301	.88	23.4	76.6
1.50	3.5	14.0	.177	.20	96.0	4.0	16.00	24.1	1.1	6.547	.88	22.1	77.9
1.52	3.6	13.7	.189	.21	95.7	4.3	17.00	24.6	1.0	6.780	.89	21.0	79.0
1.54	3.8	13.4	.201	.21	95.5	4.5	18.00	25.1	1.0	7.002	.89	19.9	80.1
1.56	3.9	13.2	.213	.22	95.2	4.8							
1.58	4.0	13.0	.225	.22	94.9	5.1	19.00	25.6	.9	7.212	.90	19.0	81.0
							20.00	26.0	.9	7.413	.90	18.1	81.9
1.60	4.1	12.7	.238	.23	94.7	5.3	25.00	28.0	.7	8.299	.92	14.8	85.2
1.62	4.2	12.5	.250	.24	94.4	5.6	30.00	29.5	.6	9.035	.94	12.5	87.5



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