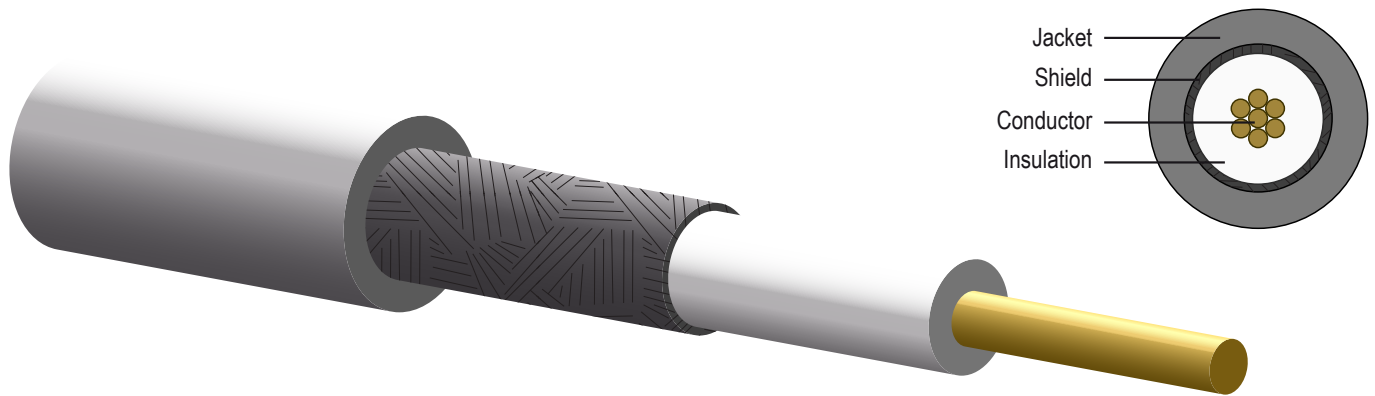


Coaxial Cable Product Specification



Cable Type		0.81mm	1.13mm	1.32mm	1.37mm	1.48mm	RG174(/U)	RG178B/U	RG316	RD316
Conductor	Material	Silver-Coated Copper	Silver-Coated Copper	Silver-Coated Copper	Silver-Coated Copper	Silver-Coated Copper, Clad Steel	Copper Strand	Silver-Coated Copper, Clad Steel	Silver-Coated Copper, Clad Steel	Silver-Coated Copper, Clad Steel
	Construction AWG (mm)	36 (7/0.05)	32 (7/0.08 ±0.003)	32 (7/0.085)	30 (7/0.107)	30 (7/0.102)	26 (7/0.16)	30 (7/0.102 ±0.003)	26 (7/0.175)	26 (7/0.175)
	Diameter (approx mm)	0.15	0.22	0.22	0.32	0.31	0.48	0.31	0.53	0.53
Insulation	Material	Perfluoroalkoxy (PFA)	FEP	FEP	FEP	FEP	XLPE	FEP	FEP	FEP
	Average Thickness (mm)	0.125	0.20	0.20	0.30	0.28	0.455	0.28	0.51	0.51
	Colour	Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear
	Nominal Thickness (mm)						0.535			
	Diameter (mm)	0.40+0.04 -0.02	0.70 ±0.02	0.70 ±0.02	0.92 ±0.03	0.86 ±0.03	1.55 ±0.05	0.86 ±0.03	1.53 ±0.03	1.53 ±0.03
Shield	Material	Tinned-Coated Copper	Tinned-Coated Copper	Silver Cover Copper	Tinned Copper Wire	Silver Cover Copper	Tinned Copper Wire	Silver-Coated Copper	Silver-Coated Copper	Silver-Coated Copper x2
	Construction (mm)	16/3/0.05	16/4/0.05	16/4/0.05	16/6/0.05	16/5/0.05	16/5/0.1	16/3/0.10	16/5/0.092	1- 16/5/0.092 2- 16/5/0.092
	Coverage (%)	85	89.4	90.4	96.4	91.6	95	92.7	92.3	1- 92.3 2- 84.2
Jacket	Material	Perfluoroalkoxy (PFA)	FEP	FEP	FEP	FEP	PVC	FEP	FEP	FEP
	Average Thickness (mm)	0.08	0.12	0.21	0.13	0.21	0.22	0.25	0.30	0.30
	Colour	Gray	Black Gray White	Black Gray	Black Gray White	Black Gray	Black	Black Brown	White	Brown
	Diameter (mm)	0.81 +0.04 -0.02	1.13 ±0.05	1.32 ±0.05	1.37 ±0.05	1.48 ±0.05	2.70 ±0.10	1.80 ±0.05	2.53 ±0.10	2.93 ±0.10

Note this document does not relate to either Hirose, Murata or Sunridge cable assemblies. If you require more information please contact GradConn



Coaxial Cable Product Specification

Cable Type		0.81mm	1.13mm	1.32mm	1.37mm	1.48mm	RG174(/U)	RG178B/U	RG316	RD316									
Nominal Impedance (Ω)		50 ±3	50 ±3	50 ±3	50	50 ±5	50 ±5	50 ±5	50	50									
Conductor Resistance (Ω/km Max. at 20°C)		1400	545	850	355	828C	142.6	838	281	281									
Insulation Resistance (MΩ/km min.)		1000	3000	1000	3000	3000	1000	3000	3000	3000									
Nominal Capacitance (pF/M)		96	96 ±3	96 ±3	95.8	95.8	100 ±8	95.8 ±3	95.8	95.8									
Dielectric Strength (KV/Min)		AC 1	AC 1	AC 0.5	AC 1	AC 1		AC 1	AC 1	AC 1									
Spark Test (KV)		5	2.5	2.5	3	2		2	5	2									
Flame Test			VW-1 OK	VW-1 OK															
Nom. Vel. of Prop. (%)		70	69	69	69.5	69.5		69.5	69.5	69.5									
VSWR (0-6 GHz)			1.3 Max.	1.3 Max.	1.3 Max.	1.3 Max.		1.3 Max.	1.3 Max.	1.3 Max.									
Rating Temp Voltage		90°C 30V	105°C 30V	105°C 30V	105°C 30V	105°C 30V	80°C 30V	105°C 30V	105°C 30V	105°C 30V									
Minimum Bend Radius (mm)		3.24	4.5		9	9	10.5	9	10.5										
Insulation	Unaged	Tensile Strength	2500 PSI min. (1.76 Kg/mm ²)	2500 PSI min. (1.76 Kg/mm ²)	2500 PSI min. (1.76 Kg/mm ²)	2500 PSI min. (1.76 Kg/mm ²)		2500 PSI min. (1.76 Kg/mm ²)	2500 PSI min. (1.76 Kg/mm ²)	2500 PSI min. (1.76 Kg/mm ²)									
		Elongation (min)	200%	200%	200%	200%		200%	200%	200%									
	Aged (168Hrs x 232°C)	Tensile Strength	Unaged min. 75%	Unaged min. 75%	Unaged min. 75%	Unaged min. 75%		Unaged min. 75%	Unaged min. 75%	Unaged min. 75%									
		Elongation																	
Jacket	Unaged	Tensile Strength	2500 PSI min. (1.76 Kg/mm ²)	2500 PSI min. (1.76 Kg/mm ²)	2500 PSI min. (1.76 Kg/mm ²)	2500 PSI min. (1.76 Kg/mm ²)		2500 PSI min. (1.76 Kg/mm ²)	2500 PSI min. (1.76 Kg/mm ²)	2500 PSI min. (1.76 Kg/mm ²)									
		Elongation (min)	200%	200%	200%	200%		200%	200%	200%									
	Aged (168Hrs x 232°C)	Tensile Strength	Unaged min. 75%	Unaged min. 75%	Unaged min. 75%	Unaged min. 75%		Unaged min. 75%	Unaged min. 75%	Unaged min. 75%									
		Elongation																	
Attenuation		dB/ 1m	dB/ 1ft	dB/ 1m	dB/ 1ft	dB/ 1m	dB/ 1ft	dB/ 1m	dB/ 1ft	dB/ 1m	dB/ 1ft	dB/ 1m	dB/ 1ft	dB/ 1m	dB/ 1ft	dB/ 1m	dB/ 1ft	dB/ 1m	dB/ 1ft
	100 MHz											0.36	0.01			0.34	0.10	0.34	0.10
	400 MHz											0.66	0.02						
	1 GHz	3.0	0.92							1.8	0.55	1.18	0.03	1.8	0.52				
	1.8 GHz									2.6	0.79			2.6					
	2 GHz	4.4	1.34	2.80	0.85	2.80	0.85							0.76	1.40	0.43	1.40	0.43	
	2.4 GHz	4.9	1.49	3.10	0.95	3.10	0.95	2.5	0.76	2.9	0.88			2.9					
	2.5 GHz	5.0	1.56	3.15		3.15	0.96	2.6	0.79										
	3 GHz	5.5	1.68		1.07							2.10	0.06		0.95				
	4 GHz	6.5	1.98		1.22										1.07	2.63	0.80	2.05	0.63
	5 GHz	7.5	2.29	4.85	1.40	4.85	1.48								1.22				
	5.15 GHz							3.9	1.19										
	5.2 GHz									4.5	1.37				4.5				
	5.35 GHz							4.0	1.22										
	6 GHz	8.5	2.59		1.56	5.20	1.59	4.3	1.31	4.9	1.49			4.9	1.37			2.63	0.80
8 GHz			5.2													3.19	0.97	3.19	0.97
12 GHz																4.80	1.46	4.80	1.46
Cable Type		0.81mm	1.13mm	1.32mm	1.37mm	1.48mm	RG174(/U)	RG178B/U	RG316	RD316									