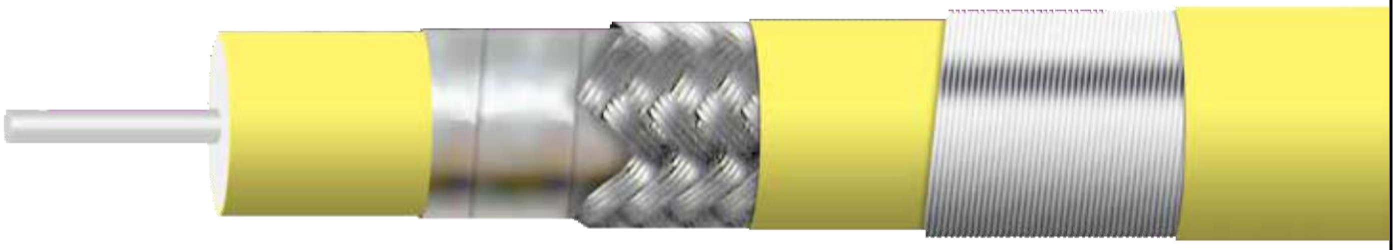
280 Series Operating Up to 18 GHz



Center Conductor	Dielectric	Foil	Braid	Outer Jacket	Serving	Outer Jacket FEP
Silver Plated Copper	EPTFE	Silver Plated Copper	Silver Plated Copper	FEP (7.74mm 0.305”)	SCCS Armor	9.65mm

2801/2803 Solid
2806/2808 Stranded

	2801	2806	2803	2808
Electrical Characteristics				
Impedance	50 +/– 2∧	50 +/– 2∧	50 +/– 2∧	50 +/– 2∧
Cut Off Frequency (cable only, max)	19.5 GHz	18 GHz	19.5 GHz	18 GHz
Capacitance	24 pF/ft.	24 pF/ft.	24 pF/ft	24 pF/ft
Velocity of Propagation	83%	83%	83%	83%
Time Delay	1.22 ns/ft.	1.22 ns/ft.	1.22 ns/ft	1.22 ns/ft
Shielding Effectiveness up to 18GHz	>90 dB	>90 dB	>90 dB	>90 dB
Power Handling	See Chart	See Chart	See Chart	See Chart
Mechanical Characteristics:				
Weight	1.40 oz/ft (130g/m)	1.30 oz/ft (120g/m)	1.30 oz/ft (120g/m)	2.50 oz/ft (230g/m)
Minimum Bend Radius inches (mm)	1” (25.4mm)	1” (25.4mm)	1” (25.4mm)	1” (25.4mm)
Environmental Characteristics:				
Operating Temperature Range [1]	-65ºC to +165ºC	-65ºC to +165ºC	-65ºC to +165ºC	-65ºC to +165ºC
RoHS (2002/95/EC)	Available on request	Available on request	Available on request	Available on request

[1] +200ºC available on request

VSWR for assemblies with two straight connectors	1.35:1 to 18 GHz	1.35:1 to 18 GHz	1.35:1 to 18 GHz	1.35:1 to 18 GHz
VSWR for assemblies with one straight and one right angle connector	1.40:1 to 18 GHz	1.40:1 to 18 GHz	1.40:1 to 18 GHz	1.40:1 to 18 GHz
VSWR for assemblies with two right angle connectors	1.45:1 to 18 GHz	1.45:1 to 18 GHz	1.45:1 to 18 GHz	1.45:1 to 18 GHz

280 Series

Insertion Loss

	2801/2803			2806/2808		
GHz	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.04	0.009	0.030	2500	0.010	0.033	2000
1	0.044	0.144	1900	0.051	0.167	1500
2	0.063	0.207	1350	0.072	0.236	1100
4	0.090	0.295	900	0.104	0.341	700
6	0.110	0.361	750	0.128	0.420	600
8	0.130	0.426	650	0.149	0.489	500
10	0.146	0.479	600	0.168	0.551	450
12	0.161	0.528	580	0.185	0.607	400
14	0.175	0.574	550	0.201	0.659	380
16	0.188	0.617	525	0.216	0.708	350
18	0.200	0.656	450	0.230	0.754	340