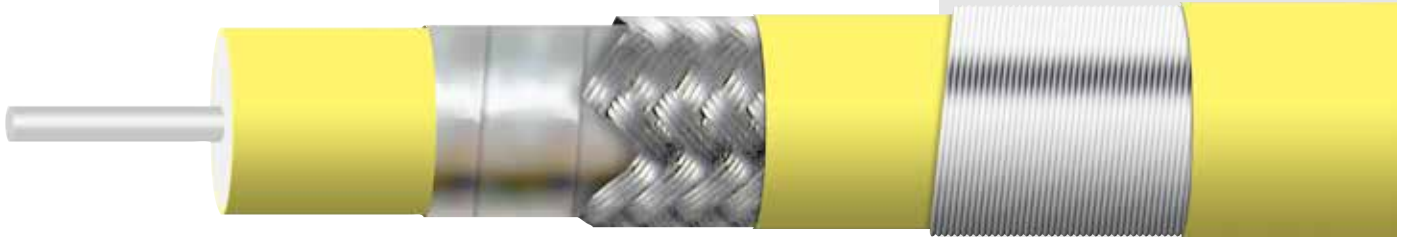




## 280 Series Operating Up to 18 GHz



**Center Conductor**  
Silver Plated Copper  
2801/2803 Solid  
2806/2808 Stranded

**Dielectric**  
EPTFE

**Foil**  
Silver Plated  
Copper

**Braid**  
Silver Plated  
Copper

**Outer Jacket**  
FEP  
(7.74mm 0.305")

**Serving**  
SCCS Armor

**Outer Jacket**  
FEP  
(9.65mm 0.380")

	2801	2806	2803	2808
<b>Electrical Characteristics</b>				
Impedance	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω
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
<b>Mechanical Characteristics:</b>				
Weight	1.40 oz/ft (130g/m)	1.30 oz/ft (120g/m)	2.50 oz/ft (230g/m)	2.50 oz/ft (230g/m)
Minimum Bend Radius inches (mm)	1" (25.4mm)	1" (25.4mm)	1" (25.4mm)	1" (25.4mm)
<b>Environmental Characteristics:</b>				
Operating Temperature Range <sup>1</sup>	-65°C to +165°C	-65°C to +165°C	-65°C to +165°C	-65°C to +165°C
RoHS (2002/95/EC)	Available on request	Available on request	Available on request	Available on request
<sup>1</sup> +200°C 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 (Continued)

### Attenuation (max)

GHz	2801/2803			2806/2808		
	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.04	0.009	0.028	2500	0.011	0.034	2000
1	0.044	0.145	1900	0.057	0.171	1500
2	0.063	0.206	1350	0.081	0.244	1100
4	0.090	0.295	900	0.117	0.350	700
6	0.111	0.365	750	0.144	0.433	600
8	0.130	0.425	650	0.168	0.504	500
10	0.146	0.479	600	0.189	0.567	450
12	0.161	0.528	580	0.208	0.625	400
14	0.175	0.574	550	0.227	0.680	380
16	0.188	0.617	525	0.243	0.730	350
18	0.200	0.657	450	0.260	0.779	340

