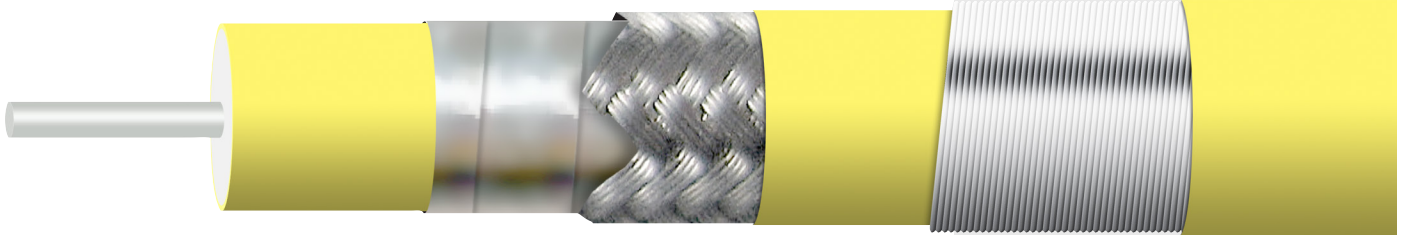




230 Series Operating Up to 26.5 GHz



Center Conductor	Dielectric	Foil	Braid	Inner Jacket	Serving	Outer Jacket
Silver Plated Copper 2301/2303 Solid 2306/2308 Stranded	EPTFE	Silver Plated Copper	Silver Plated Copper	FEP (0.222", 5.79mm)	SCCS Armor	FEP (0.292", 7.42mm)

	2301	2306	2303	2308
Electrical Characteristics				
Impedance	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω	50 +/- 2Ω
Cut Off Frequency (cable only, max)	26.5 GHz	26.5 GHz	26.5 GHz	26.5 GHz
Capacitance	24.2 pF/ft.	24.2 pF/ft.	24.2 pF/ft.	24.2 pF/ft.
Velocity of Propagation	84%	84%	84%	84%
Time Delay	1.21 ns/ft.	1.21 ns/ft.	1.21 ns/ft.	1.21 ns/ft.
Shielding Effectiveness up to 18GHz	>100 dB	>100 dB	>100 dB	>90 dB
Cable Attenuation Factors (K1, K2) *	6.0, 0.176	7.4, 0.179	6.0, 0.176	7.4, 0.179
Power Handling	See Chart	See Chart	See Chart	See Chart
Mechanical Characteristics:				
Weight	0.77 oz/ft (72g/m)	.74 oz/ft (68 g/m)	1.7 oz/ft (156 g/m)	1.58 oz/ft (147 g/m)
Static Bend Radius	0.75" (19.05mm)	0.625" (15.9mm)	1" (25.4mm)	0.875" (22.2mm)
Dynamic Bend Radius	1.375" (34.9mm)	1.25" (31.8mm)	2" (50.8mm)	1.75" (44.5mm)
Environmental Characteristics:				
Operating Temperature Range ¹	-65°C to +200°C	-65°C to +200°C	-65°C to +200°C	-65°C to +200°C
RoHS 3 (EU 2015/863)	Yes	Yes	Yes	Yes

¹ Standard cable assembly temperature range is -55°C to +165°C, -65°C to +200°C available for select configurations

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
VSWR for assemblies with two straight 3.5mm connectors	1.35:1 to 26.5 GHz	1.35:1 to 26.5 GHz	1.35:1 to 26.5 GHz	1.35:1 to 26.5 GHz

*Attenuation = $K1\sqrt{f} + K2f$ (cable only)



230 Series

Attenuation (max)

GHz	2301/2303			2306/2308		
	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.5	0.04	0.14	1265	0.05	0.17	1135
1	0.06	0.20	1100	0.08	0.25	982
2	0.09	0.29	800	0.11	0.36	714
4	0.13	0.42	520	0.16	0.51	464
6	0.16	0.52	450	0.19	0.63	402
8	0.18	0.60	380	0.22	0.73	339
10	0.21	0.68	350	0.25	0.83	313
12	0.23	0.75	310	0.28	0.91	277
14	0.25	0.82	300	0.30	0.99	268
16	0.27	0.88	280	0.32	1.07	250
18	0.29	0.94	270	0.35	1.14	241
20	0.30	1.00	250	0.37	1.20	223
22	0.32	1.05	230	0.39	1.27	205
24	0.34	1.10	220	0.41	1.33	196
25	0.34	1.13	215	0.41	1.36	188
26.5	0.36	1.17	210	0.43	1.41	180

