

# Specification Control Drawing (SCD)

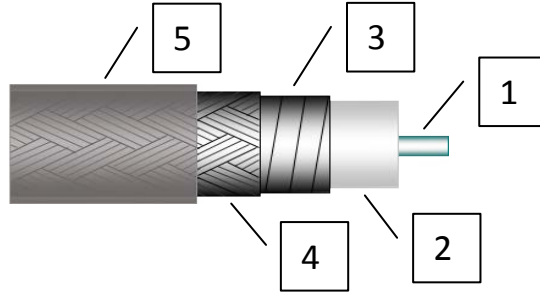
DWG. NO. DF218

Rev DA

## Application Notes

Recommended for applications where lowest loss or phase stability are the primary performance requirement. The high performance design of this cable is optimized for electrical attributes with limitations on physical robustness. Avoid applications that induce radial torque such as coiling, use DynaFlex® DF100 series for more demanding mechanical requirements.

*This document contains proprietary and confidential information.*



## Physical Properties

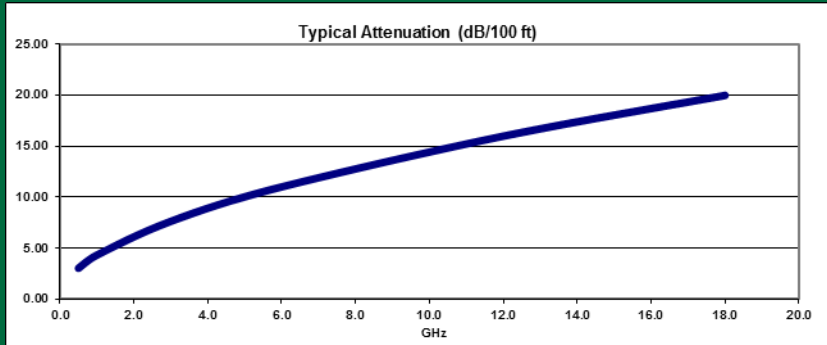
## Construction in accordance with MIL-DTL-17

Operating Temp. (deg C)	-45 / +125	1	Center Conductor	Solid, Silver Plated Copper Per ASTM B298
Jacket O.D. (in)	0.291 ± .005	2	Dielectric	Expanded PTFE, Type F, per ASTM D4894 & D4895
Round Braid O.D. (in)	0.271	3	First Shield	Silver Plated Copper per ASTM B298
Helical Foil O.D. (in)	0.255	4	Secondary Shield	Silver Plated Copper per ASTM B298
Dielectric O.D. (in)	0.249	5	Jacket (Gray)	Flouroplastic, Type IX per ASTM D2116 or Type X per ASTM D3159
Center Conductor (in)	0.091			
Inside Min. Bend Radius (in)	1.46	Marking @ 12 inch intervals (Black Ink)		DynaFlex® DF218 (Lot #) yyww
Weight (lbs/ft)	0.079			

## Nominal Electrical Properties

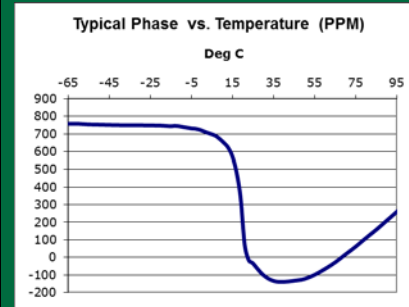
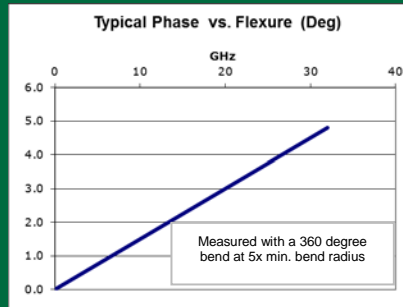
Packaging: 100 ft. Minimum Continuous Lengths, 1 Length Per Reel, 24" x 12" PLASTIC/Wood Reels.

Impedance (ohms)	50
Velocity of Propagation (%)	83
Shielding Effectiveness (dB)	100
Capacitance (pF/ft)	24
Max Operating Freq. (GHz)	18.0



## Attenuation (dB/100ft) @ 25 °C and Sea Level

Freq. (GHz)	Typical	Max
0.5	2.62	2.88
1.0	3.78	4.16
3.0	6.89	7.59
6.0	10.22	11.26
12.0	15.40	16.97
18.0	19.75	21.78
K1	3.51	3.86
K2	0.27	0.30



**SPECIFICATION IS SUBJECT TO CHANGE WITHOUT NOTICE**

REV	DCN NO.	DATE	APP.	135 WARD HILL, MA 01835 978 469-9448 WWW.DYNAWAVECABLE.COM	
BA	13-1587	4/22/13	SH	DRAWN TA DATE 6/8/11	
BB	13-2588	11/20/13	SH	APPROVED SH DATE 6/8/11	0.291", 83%, ETFE GRY .091", FOIL, BRD
CA	14-2512	12/23/14	SH	CODE IDENT. 6DZL5	
CB	15-1763	5/29/15	SH	Page 1	DWG. NO. DF218
CC	16-2366	11/7/16	SH		
DA	17-1597	5/9/17	SH		