Specification Control Drawing (SCD) DWG. NO. DF218 Rev DA This document contains proprietary and confidential information. **Application Notes** 3 5 **Recommended for applications where** lowest loss or phase stability are the 1 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, 2 use DynaFlex® DF100 series for more 4 demanding mechanical requirements. **Physical Properties Construction in accordance with MIL-DTL-17** Solid, Silver Plated Copper Per ASTM B298 Center Conductor 1 Operating Temp. (deg C) -45 / +125 Expanded PTFE, Type F, per ASTM D4894 & 2 Dielectric D4895 Jacket O.D. (in) 0.291 ± .005 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 Flouroplastic, Type IX per ASTM D2116 or Type X per ASTM D3159 Jacket 5 (Grav) Center Conductor (in) 0.091 Marking @ 12 inch intervals DynaFlex® DF218 (Lot #) yyww (Black Ink) Inside Min. Bend Radius (in) 1.46 Weight (lbs/ft) 0.079 Packaging: 100 ft. Minimum Continuous Lengths, 1 Length Per Reel, 24" x 12' PLASTIC/Wood Reels. **Nominal Electrical Properties** Impedance (ohms) 50 Typical Attenuation (dB/100 ft) 25.00 Velocity of Propagation (%) 83 Shielding Effectiveness (dB) 100 20.00 Capacitance (pF/ft) 24 Max Operating Freq. (GHz) 18.0 15.00 Attenuation (dB/100ft) 10.00 @ 25 °C and Sea Level Freq. 5.00 Typical Max (GHz) 2.62 2.88 0.5 0.00 0.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0 3.78 4.16 1.0 GHz 3.0 6.89 7.59 10.22 11.26 6.0 Typical Phase vs. Flexure (Deg) 12.0 15.40 16.97 Typical Phase vs. Temperature (PPM) 18.0 19.75 21.78 **GHz** 20 Deg C 10 30 40 -65 -45 -25 15 55 75 95 -5 35 6.0 900 3.51 3.86 K1 800 5.0 700 600 K2 0.27 0.30 4.0 500 400 3.0 300 2.0 200 Measured with a 360 degree bend at 5x min. bend radius 100 1.0 0 -100 -200 0.0

SPECIFICATION IS SUBJECT TO CHANGE WITHOUT NOTICE

REV	DCN NO.	DATE	APP.	135 WARD HILL, MA 01835 978 469-9448 WWW.DYNAWAVECABLE.COM		<u>dynawave</u>
BA	13-1587	4/22/13	SH		DATE 6/8/11	
BB	13-2588	11/20/13	SH	DIAWN IA	DATE 0/0/11	0.291°, 83%, ETFE GRY
CA	14-2512	12/23/14	SH			.091". FOIL. BRD
CB	15-1763	5/29/15	SH	APPROVED SH	DATE 0/8/11	
CC	16-2366	11/7/16	SH	CODE IDENT.	Page 1	DE218
DA	17-1597	5/9/17	SH	6DZL5		DWG. NO. DF218