

# Specification Control Drawing (SCD)

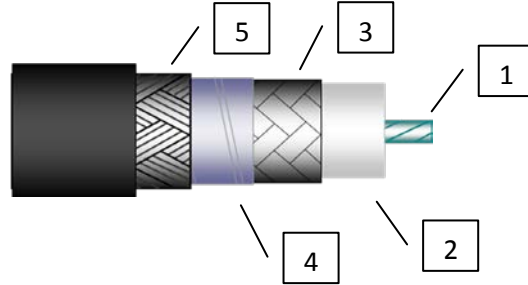
DWG. NO. DF440W

Rev BA

## Application Notes

Recommended for applications where flexibility and flex life are the primary performance requirement. The design of this cable is optimized for extended flex life with some compromise in attenuation performance. For applications with limited flexure requirements, consider DynaFlex® DF100 or DF200 series cables for improved attenuation performance.

*This document contains proprietary and confidential information.*



## Physical Properties

## Construction in accordance with MIL-DTL-17

Operating Temp. (deg C)	-45 / +85	1	Center Conductor	Silver Plated Copper Per ASTM B298
Jacket O.D. (in)	0.180 ± .005	2	Dielectric	Semisolid PTFE, Type F, per ASTM D4894 & D4895
Round Braid O.D. (in)	0.135	3	First Shield	Silver Plated Copper per ASTM B298
Helical Tape O.D. (in)	0.119	4	Secondary Shield	Conductive Tape (proprietary)
Flat Braid O.D. (in)	0.103	5	Third Shield	Silver Plated Copper per ASTM B298
Dielectric O.D. (in)	0.097		Jacket (Black)	Type XII, Polyurethane
Stranded Center Conductor (in)	0.034			
Inside Min. Bend Radius (in)	0.90"			
Weight (lbs/ft)	0.027 Max			

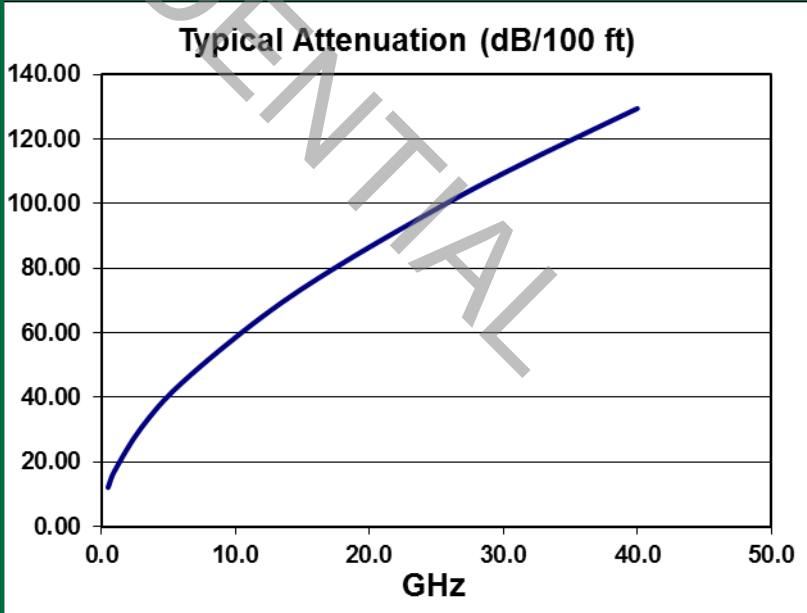
## Electrical Properties

Packaging: 100 ft. Minimum Continuous Lengths, 1 Length Per Reel, 14" Plastic Reels.

Impedance (ohms)	50
Velocity of Propagation (%)	78
Shielding Effectiveness (dB)	90
Capacitance (pF/ft)	27
Max Operating Freq. (GHz)	40.0

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

Freq. (GHz)	Typical	Max
0.5	12.09	13.30
1.0	17.28	19.01
3.0	30.69	33.76
6.0	44.46	48.91
12.0	64.98	71.48
18.0	81.57	89.73
26.0	100.65	110.72
32.0	113.56	124.92
40.0	129.49	142.44
K1	16.68	18.35
K2	0.60	0.66



## SPECIFICATION IS SUBJECT TO CHANGE WITHOUT NOTICE

REV	DCN NO.	DATE	APP.	135 WARD HILL, MA 01835 978 469-9448 WWW.DYNAWAVECABLE.COM	
AA	13-1546	4/15/13	SH	DRAWN TA	0.180", 78%, TPU BLK .034", BRD, TAPE, BRD
AB	14-1886	7/25/14	SH	DATE 3/25/13	
AC	14-2110	9/5/14	SH	APPROVED SH	DATE 3/25/13
AD	15-1795	5/29/15	SH	CODE IDENT.	Page 1
BA	15-2822	12/23/15	SH	6DZL5	
					DWG. NO. DF440W