

# Specification Control Drawing (SCD)

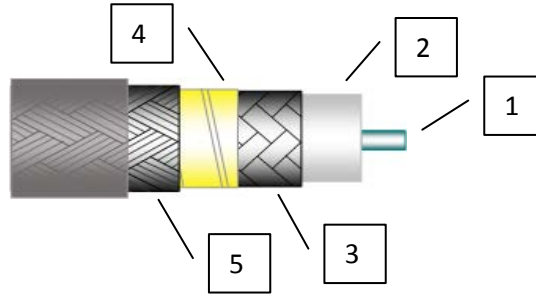
DWG. NO. DF140

Rev DA

## Application Notes

Recommended for applications that require a balanced combination of robust mechanical and electrical performance. Considered our best overall design, the triple shield construction of this series provides reliable mechanical strength and low loss, broadband electrical performance. Avoid applications with continuous flexures exceeding 10,000 bend cycles, use DynaFlex® DF400 series for higher flex applications.

*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	Silver Plated Copper Per ASTM B298
Jacket O.D. (in)	0.155 ± .005	2	Dielectric	Expanded PTFE, Type F, per ASTM D4894 & D4895
Round Braid O.D. (in)	0.142	3	First Shield	Silver Plated Copper per ASTM B298
Helical Foil O.D. (in)	0.126	4	Secondary Shield	High Temp, Aluminum Polyimide Foil
Flat Braid O.D. (in)	0.118	5	Third Shield	Silver Plated Copper per ASTM B298
Dielectric O.D. (in)	0.106			
Center Conductor (in)	0.036	Jacket (Gray)		Flouroplastic, Type IX per ASTM D2116 or Type X per ASTM D3159
Inside Min. Bend Radius (in)	0.8	Marking @ 12 inch intervals (Black Ink)		DynaFlex® DF140 (Lot #) yyww
Weight (lbs/ft)	0.032			

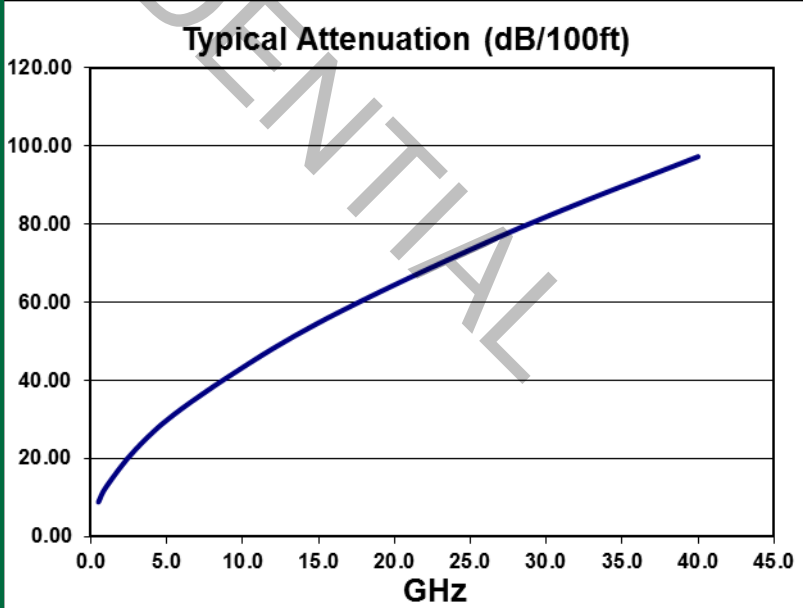
## Nominal Electrical Properties

Impedance (ohms)	50
Velocity of Propagation (%)	78
Shielding Effectiveness (dB)	90
Capacitance (pF/ft)	26
Max Operating Freq. (GHz)	40

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

Freq. (GHz)	Typical	Max
0.5	8.82	9.70
1.0	12.62	13.88
3.0	22.52	24.77
6.0	32.76	36.04
12.0	48.16	52.98
18.0	60.70	66.77
26.0	75.22	82.74
32.0	85.09	93.60
40.0	97.33	107.06
K1	12.10	13.31
K2	0.52	0.57

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



**SPECIFICATION IS SUBJECT TO CHANGE WITHOUT NOTICE**

REV	DCN NO.	DATE	APP.	135 WARD HILL, MA 01835 978 469-9448 WWW.DYNAWAVECABLE.COM		
AB	14-1336	3/19/14	SH	DRAWN TA	DATE 5/16/12	
BA	14-1545	5/2/14	SH	APPROVED SH DATE 5/16/12		0.155", 78%, ETFE GRY 0.036", BRD, FOIL, BRD
CA	14-2446	11/13/14	SH			
CB	15-1464	3/30/15	SH	CODE IDENT. 6DZL5		DWG. NO. DF140
CC	15-1754	5/29/15	SH			
DA	16-1603	5/13/16	SH			