Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1505F Coax - RG-59/U Type

For more Information please call

1-800-Belden1



General Description:

22 AWG stranded (7x29) .031" bare compacted copper conductor, gas-injected foam HDPE insulation, tinned copper double braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)	
Conductor	
AWG:	
# Coax AWG Stranding Conductor Material Dia. (in.) 1 22 7x29 BCC - Bare Compacted Copper .031	
Total Number of Conductors:	
	1
Insulation Material:	
Insulation Material Dia. (in.)	
Gas-injected FHDPE - Foam High Density Polyethylene .145	
Outer Shield	
Outer Shield Material: Layer # Type Outer Shield Material Coverage (%)	
1 Braid TC - Tinned Copper 95.000	
2 Braid TC - Tinned Copper 95.000	
Outer Jacket	
Outer Jacket Material Outer Jacket Material	
PVC - Polyvinyl Chloride	
Overall Cable	
Overall Nominal Diameter:	0.242 in.
Mechanical Characteristics (Overall)	05°0 T. 175°0
Operating Temperature Range:	-35°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	41 lbs/1000 ft.
Max. Recommended Pulling Tension:	88 lbs.
Min. Bend Radius/Minor Axis:	2.500 in.
Applicable Specifications and Agency Compliance (O	verall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	59/U

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Flame Test		
UL Flame	• Test:	UL1685 UL Loading
Suitability		
-	y - Indoor:	Yes
Plenum/Nor	-Plenum	
Plenum (Y/N):	No
Electrical C	haractariatica (Ova	
	characteristics (Ove eristic Impedance:	irail)
Impedance		
75		
Nom. Inductar		
Inductance	- (μΗ/ft)	
0.094		
Nom. Capacita	ance Conductor to Shield:	1 · · · · · · · · · · · · · · · · · · ·
Capacitano	e (pF/ft)	
17.0		
Nominal Velo	city of Propagation:	
VP (%)		
80		
Nominal Delay	<i>ı</i> :	
Delay (ns/f		
1.3	1	
Nom Conduc	tor DC Resistance:	
	°C (Ohm/1000 ft)	
12.2	- (
	r Shield DC Resistance:	
	°C (Ohm/1000 ft)	
2.4		
Nom. Attenua		
	Attenuation (dB/100 ft.)	
1.000 3.600	0.200	
5.000	0.600	
6.000	0.670	-
7.000	0.730	-
10.000	0.900	-
12.000	0.980	
25.000	1.440	
67.500	2.400	
71.500	2.500	
88.500	2.800	
100.000	3.000	1
135.000	3.500	
143.000	3.600	
180.000	4.100	
270.000	5.100	
360.000	6.000	
540.000	7.400	
720.000	8.700	
750.000	8.900	
1000.000	10.500	•
1500.000	13.300	
2000.000	15.700	
2250.000 3000.000	16.900 20.300	
4500.000		•
	28.200	
	g Voltage - UL:	
Voltage	4	
300 V RMS		

Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.

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Other Electrical Characteristic 2:

Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	850.000	20.000
851.000	4500.000	15.000

Sweep Test

Sweep Testing:

100% Sweep tested 5 MHz to 4.5 GHz.

Notes (Overall)

Notes: Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1505F B591000	1,000 FT	45.000 LB	BLACK, MATTE	С	#21 GIFHDLDPE DBLB PVC
1505F G7V1000	1,000 FT	45.000 LB	RED, MATTE	С	#21 GIFHDLDPE DBLB PVC
1505F G7W1000	1,000 FT	45.000 LB	GREEN, MATTE	С	#21 GIFHDLDPE DBLB PVC
1505F G7X1000	1,000 FT	45.000 LB	BLUE, MATTE	С	#21 GIFHDLDPE DBLB PVC
1505F G7Y1000	1,000 FT	45.000 LB	WHITE, MATTE	С	#21 GIFHDLDPE DBLB PVC
1505F G8L1000	1,000 FT	45.000 LB	ORANGE, MATTE	С	#21 GIFHDLDPE DBLB PVC
1505F Z4B1000	1,000 FT	45.000 LB	VIO Z4B		#21 GIFHDLDPE DBLB PVC
1505F 0041000	1,000 FT	45.000 LB	YELLOW	С	#21 GIFHDLDPE DBLB PVC

Notes:

C = CRATE REEL PUT-UP.

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