Detailed Specifications & Technical Data

METRIC 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. (mm)
1	22	7x29	BCC - Bare Compacted Copper	0.7874

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	3.683

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: 6.147 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-35°C To +75°C
Bulk Cable Weight:	61.016 Kg/Km
Max. Recommended Pulling Tension:	391.442 N
Min. Bend Radius/Minor Axis:	63.500 mm

Applicable Specifications and Agency Compliance (Overall)

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

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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
Flame Test	
UL Flame Test:	UL1685 UL Loading
Suitability	
Suitability - Indoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



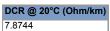
Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.656
3.600	1.641
5.000	1.969
6.000	2.198
7.000	2.395
10.000	2.953
12.000	3.215
25.000	4.725
67.500	7.874
71.500	8.203
88.500	9.187
100.000	9.843
135.000	11.484
143.000	11.812
180.000	13.452
270.000	16.733
360.000	19.686

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24.608
29.201
29.857
35.435
44.622
52.824
56.761
67.917
87.603
105.648

Max. Operating Voltage - UL:

Voltage

Other Electrical Characteristic 1:

Return Loss: Fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	850.000	20.000
850.000	6000.000	15.000

Sweep Test

5-6000 MHz Sweep Testing:

Notes (Overall)

Notes: Print legend includes sequential footage marks.

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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