

1505F Coax - RG-59/U Type

		<p>Metric Version For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

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

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	59/U
AWG	22
Stranding	7x29
Conductor Diameter	0.787 mm
Conductor Material	BCC - Bare Compacted Copper

INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	3.683 mm

OUTER SHIELD:

Outer Shield Type	Braid/Braid
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Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1		Braid	TC - Tinned Copper	94
2		Braid	TC - Tinned Copper	94

Outer Shield %Coverage	95 %
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Outer Shield Diameter :

Description	Diameter (mm)	Description	Diameter (mm)
Layer 1	4.242	Layer 2	4.801

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	6.147 mm
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-35°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	59.528 Kg/Km
Max. Recommended Pulling Tension	400.338 N
Min. Bend Radius (Install)	60.96 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005

FLAME TEST:

UL Flame Test	UL1685 UL Loading
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SWEEP TEST:

Sweep Testing	100% Sweep tested 5 MHz to 3 GHz.
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SUITABILITY:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes - Black Only
Suitability - Aerial	Yes - Black only, when supported by a messenger wire

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	0.308 µH/m
Nom. Capacitance Conductor to Shield	55.777 pF/m
Nominal Velocity of Propagation	80 %
Nominal Delay	4.265 ns/m
Nom. Conductor DC Resistance @ 20 Deg. C	40.028 Ohms/km
Nominal Outer Shield DC Resistance @ 20°C	7.874 Ohms/km

Minimum Structural Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Structural Return Loss (dB)
		5	3000	15

Nom. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100m)
	1			0.656
	3.6			1.64
	5			1.969
	7			2.395
	10			2.953
	67.5			7.874
	71.5			8.202
	88.5			9.187
	100			9.843
	135			11.483
	143			11.812
	180			13.452
	270			16.733
	360			19.686
	540			24.279
	720			28.545
	750			29.201
	1000			34.45
	1500			43.637
	2000			51.512
	2250			55.449
	3000			66.604

Max. Operating Voltage - UL	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.
Other Electrical Characteristic 2	Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

NOTES:

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

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
1505F 0041000	#21 GIFHDLDP DBLB PVC	304.8	20.43	YELLOW	C
1505F B591000	#21 GIFHDLDP DBLB PVC	304.8	20.43	BLACK, MATTE	C
1505F G7V1000	#21 GIFHDLDP DBLB PVC	304.8	20.43	RED, MATTE	C
1505F G7W1000	#21 GIFHDLDP DBLB PVC	304.8	20.43	GREEN, MATTE	C
1505F G7X1000	#21 GIFHDLDP DBLB PVC	304.8	20.43	BLUE, MATTE	C

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1505F G7Y1000	#21 GIFHDLDPE DBLB PVC	304.8	20.43	WHITE, MATTE	C
1505F G8L1000	#21 GIFHDLDPE DBLB PVC	304.8	20.43	ORANGE, MATTE	C
1505F Z4B1000	#21 GIFHDLDPE DBLB PVC	304.8	20.43	VIO Z4B	

C = CRATE REEL PUT-UP.

Revision Number: 5 Revision Date: 08-24-2005

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