Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

1505A Coax - RG-59/U Type

For more Information please call

1-800-Belden1

General Description:

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	Solid	BC - Bare Copper	0.8128

Total Number of Conductors:	1

Insulation

Insulation Material:

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

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:	5.918 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	46.134 Kg/Km
Max. Recommended Pulling Tension:	231.306 N
Min. Bend Radius/Minor Axis:	63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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

Flame Test

UL Flame Test:	UL1666 Vertical Shaft
CSA Flame Test:	FT4

Suitability

Suitability - Indoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	1506A

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/m)
0.351067

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
53.4803

Nominal Velocity of Propagation:

VP (%)
82.000

Nominal Delay:

Delay (ns/m)
4.068

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
32.81

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
12.4678

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.984
3.600	1.969
5.000	2.067
6.000	2.264
7.000	2.428
10.000	2.953
12.000	2.986
25.000	4.265
67.500	6.726
71.500	6.890
88.500	7.218
100.000	7.546
135.000	8.859
143.000	9.187
180.000	10.171
270.000	12.468
360.000	14.436
540.000	18.046
720.000	20.998
750.000	21.327
1000.000	24.936
1500.000	30.513
2000.000	35.763
2250.000	38.060
3000.000	43.965
4500.000	53.808

Max. Operating Voltage - UL:

Voltage
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. 75 +/- 1.5 Ohms

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	1600	23
1600	4500	21

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 4.5 GHz.

Misc. Information (Overall)

Notes (Overall)

Notes: Also available in bundled versions. See 7794A through 7798A.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1505A N3U1000	305 MT	15.876 KG	GREEN, MIL	C	#20 PE/GIFHDPE SH FR PVC
1505A N3U5000	1,524 MT	74.843 KG	GREEN, MIL	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0011000	305 MT	15.876 KG	BROWN	C	#20 PE/GIFHDPE SH FR PVC
1505A 0015000	1,524 MT	74.843 KG	BROWN	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0021000	305 MT	15.876 KG	RED	C	#20 PE/GIFHDPE SH FR PVC
1505A 002500	152 MT	7.938 KG	RED	C	#20 PE/GIFHDPE SH FR PVC
1505A 0025000	1,524 MT	74.843 KG	ORANGE	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0031000	305 MT	15.876 KG	ORANGE	C	#20 PE/GIFHDPE SH FR PVC
1505A 0035000	1,524 MT	74.843 KG	ORANGE	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0041000	305 MT	15.876 KG	YELLOW	C	#20 PE/GIFHDPE SH FR PVC
1505A 0045000	1,524 MT	74.843 KG	YELLOW	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0061000	305 MT	15.876 KG	BLUE, LIGHT	C	#20 PE/GIFHDPE SH FR PVC
1505A 006500	152 MT	7.938 KG	BLUE, LIGHT	C	#20 PE/GIFHDPE SH FR PVC
1505A 0065000	1,524 MT	74.843 KG	BLUE, LIGHT	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0071000	305 MT	15.876 KG	VIOLET	C	#20 PE/GIFHDPE SH FR PVC
1505A 0075000	1,524 MT	74.843 KG	VIOLET	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0081000	305 MT	15.876 KG	GRAY	C	#20 PE/GIFHDPE SH FR PVC
1505A 0085000	1,524 MT	74.843 KG	GRAY	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0091000	305 MT	15.876 KG	WHITE	C	#20 PE/GIFHDPE SH FR PVC
1505A 0095000	1,524 MT	74.843 KG	WHITE	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0101000	305 MT	15.876 KG	BLACK	C	#20 PE/GIFHDPE SH FR PVC
1505A 010500	152 MT	7.938 KG	BLACK	C	#20 PE/GIFHDPE SH FR PVC
1505A 0105000	1,524 MT	74.843 KG	BLACK	C N	#20 PE/GIFHDPE SH FR PVC
2065-2-9	1 EA	0.015 KG	CHROME, BRIGHT	Q	King's BNC for 1505A

Notes:
C = CRATE REEL PUT-UP.
N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.
Q = STANDARD PACKAGES CANNOT BE BROKEN.

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