

Belden 1505A Coax - RG59/U Type



Application	Cable Construction										
20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.	<table border="1"> <tr> <td>Conductor</td> <td>Solid bare copper wire, 20awg</td> </tr> <tr> <td>Insulation</td> <td>Gas-injected FHDPE - Foam High Density Polyethylene Ø 3.683</td> </tr> <tr> <td>Screen</td> <td>Duofoil® Tape Aluminum Foil-Polyester Tape-Aluminum Foil 100% coverage</td> </tr> <tr> <td>Braid</td> <td>Tinned copper, 95% coverage</td> </tr> <tr> <td>Outer Jacket</td> <td>Polyvinylchloride (PVC), Ø 5.9mm</td> </tr> </table>	Conductor	Solid bare copper wire, 20awg	Insulation	Gas-injected FHDPE - Foam High Density Polyethylene Ø 3.683	Screen	Duofoil® Tape Aluminum Foil-Polyester Tape-Aluminum Foil 100% coverage	Braid	Tinned copper, 95% coverage	Outer Jacket	Polyvinylchloride (PVC), Ø 5.9mm
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Mechanical Characteristics	Electrical Characteristics										
Operating Temperature Range	Nom. Characteristic Impedance										
UL Temperature Rating	Nom. Inductance										
Bulk Cable Weight	Nom. Capacitance (cond./shield)										
Max. Recommended Pulling Tension	Nom. Velocity of Propagation										
Min. Bend Radius (Install)/Minor Axis	Nom. Delay										
	Nom. Conductor DC Resistance										
	Nom. Outer Shield DC Resistance										

Electrical characteristics continued on next page

Part Number	Ø - Outer Jacket (mm)	Colour	Other colours on request
1505A	5.97	Blue, Light	

Nom. Attenuation

Frequency (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
3000.000	43.965
2250.000	38.060
4500.000	53.808

Minimum return loss

Start Frequency (MHz)	Stop Frequency (MHz)	Min. Return loss (dB)
5	1600	23
1600	4500	21

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.