

1520A Coax - Bundled RGB Coaxial Cable Miniature Type



For more Information
please call

1-800-Belden1



General Description:

30 AWG stranded (7x38) .012" TC conductors, foam HDPE insulation, coaxes w/Duofoil® + TC braid shield (90% coverage), overall Beldfoil® shield, overall PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
3	30	7x38	TC - Tinned Copper	0.3302

Total Number of Conductors: 3

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FHDPE - Foam High Density Polyethylene	1.4224

Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	90

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	2.5908

Inner Jacket Color Code Chart:

Number	Color
1	Red
2	Green
3	Blue

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 7.188 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +60°C

UL Temperature Rating: 60°C (UL AWM Style 1354)

Bulk Cable Weight: 68.457 Kg/Km

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Max. Recommended Pulling Tension:	186.824 N
Min. Bend Radius/Minor Axis:	76.200 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2
AWM Specification:	UL Style 1354 (each coax); UL Style 2688 (overall)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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:	Mini

Suitability

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

56.7613

Nominal Velocity of Propagation:

VP (%)

78

Nominal Delay:

Delay (ns/m)

4.2653

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

328.1

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

31.1695

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1	2.6248
5	4.9215
10	7.2182
30	13.124
50	17.7174
100	26.9042
200	41.0125
400	62.0109

METRIC MEASUREMENT VERSION

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700	86.9465
900	101.055
1000	107.617

Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 1354)
300 V RMS (CL2)

Minimum Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		10	40	25

Sweep Test

Sweep Testing: 100% sweep tested. 10MHz to 40MHz.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1520A 0101000	305 MT	22.680 KG	BLACK	C	3 #30 FHDPE BRD PVC FS PVC
1520A 010500	152 MT	11.340 KG	BLACK	C	3 #30 FHDPE BRD PVC FS PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 04-11-2008

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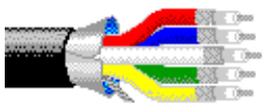
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	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

5 coax. Each coax 30 AWG stranded (7x38) .013" tinned copper conductor, Foam HDPE insulation, Duofoil® and a 90% tinned copper braid shields (coaxes), inner PVC jackets, overall 100% Beldfoil® shield, outer PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	5
Total Number of Conductors	5
RG Type	Mini
AWG	30
Stranding	7x38
Conductor Diameter	0.33 mm
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	FHDPE - Foam High Density Polyethylene
Insulation Diameter	1.422 mm

INNER SHIELD:

Inner Shield Material Trade Name	Duofoil®
Inner Shield Type	Tape/Braid

Inner Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	90

Inner Shield % Coverage	100 %
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INNER JACKET:

Inner Jacket Material	PVC - Polyvinyl Chloride
Inner Jacket Diameter	2.591 mm

Inner Jacket Color Code Chart :



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Number	Color
1	Red
2	Green
3	Blue
4	White
5	Yellow

OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Tape
Outer Shield Material	Aluminum Foil-Polyester Tape
Outer Shield % Coverage	100 %

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	8.585 mm
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +60°C
UL Temperature Rating	60°C (UL AWM Style 1354)
Bulk Cable Weight	90.334 Kg/Km
Max. Recommended Pulling Tension	311.374 N
Min. Bend Radius (Install)	8.89 cm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CL2
AWM Specification	UL Style 1354 (each coax); UL Style 2688 (overall)

SUITABILITY:

Suggested Connectors	Kings #2025-57-9
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PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Capacitance Cond. to Other Cond. & Shield	56.761 pF/m
Nominal Velocity of Propagation	78 %
Nominal Delay	4.265 ns/m
Nom. Conductor DC Resistance @ 20 Deg. C	328.1 Ohms/km
Nominal Outer Shield DC Resistance @ 20°C	31.17 Ohms/km
Minimum Return Loss :	



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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		10	40	25

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100m)
	1			2.625
	5			4.921
	10			7.218
	30			13.124
	50			17.717
	100			26.904
	200			41.012
	400			62.011
	700			86.946
	900			101.055
	1000			107.617

Max. Operating Voltage - UL 30 V RMS (UL AWM Style 1354), 300 V RMS (CL2)

NOTES:

Notes 100% sweep tested 10 MHz to 40 MHz.

PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
1522A 0101000	5 #30 FHDPE BRD PVC FS PVC	304.8	30.418	BLACK	C
1522A 010500	5 #30 FHDPE BRD PVC FS PVC	152.4	15.663	BLACK	

C = CRATE REEL PUT-UP.

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