

7951A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information
please call

1-800-Belden1



General Description:

Composite - (1)Cat 5 4-pair, 24 AWG unshielded plus (4) 18 AWG stranded (19x30) bare copper conductors, polyolefin Insulation on the pairs; PVC insulation on the conductors, overall F-R PVC jacket. Jacket sequentially marked.

Usage (Overall)

Suitable Applications:

Keypads, Control Panels, Touch Panel Controls, Home Theater, A/V Equipment, Projectors, Screens, Window Treatments, Lighting, Security, Security Cameras, Home Automation, Energy Control

Twisted Pair

Physical Characteristics

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
4	24	Solid	BC - Bare Copper	0.508

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PO - Polyolefin	0.914

Twisted Pair Color Code Chart:

Number	Color
1	White/Blue Stripe and Blue
2	White/Orange Stripe and Orange
3	White/Green Stripe and Green
4	White/Brown Stripe and Brown

Individual Shield

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (mm)
4.953

Outer Jacket Ripcord:

Yes

Outer Jacket Color Code Chart:

Color
Lt Green

Electrical Characteristics

Premise Cable Electricals:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. SRL (dB)	Fitted Imp. (Ohms)
1.0	2.000	62	N/A	23	100 ± 15%
4.0	4.100	53	N/A	23	100 ± 15%
8.0	5.800	48	N/A	23	100 ± 15%
10.0	6.500	47	N/A	23	100 ± 15%

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16.0	8.200	44	N/A	23	100 ± 15%
20.0	9.300	42	N/A	23	100 ± 15%
25.0	10.400	41	N/A	22	100 ± 15%
31.25	11.700	39	N/A	21	100 ± 15%
62.5	17.000	35	N/A	18	100 ± 15%
100	22.000	32	N/A	16	100 ± 15%

Multi Conductor

Physical Characteristics

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
4	18	19x30	BC - Bare Copper	1.118

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PVC - Polyvinyl Chloride	1.676

Insulation Color Code Chart:

Number	Color
1	Red
2	White
3	Green
4	Black

Individual Shield

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
49.215

Nominal Velocity of Propagation:

VP (%)
70.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
30.776

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
4 Amps per conductor @ 25°C

Other Electrical Characteristic 1:

Third party verified to TIA/EIA 568-B.2, Category 5

Physical Characteristics (Overall)

Conductor

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord:

Yes

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Overall Cable

Overall Nominal Diameter:	10.338 mm
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Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +75°C
Bulk Cable Weight:	110.127 Kg/Km
Max. Recommended Pulling Tension:	547.129 N
Min. Bend Radius/Minor Axis:	114.300 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):	04/01/2005
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
Other Specification:	NEMA WC-63/1. Category 5

Flame Test

UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4

Plenum/Non-Plenum

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

Max. Operating Voltage - UL:

Voltage
300 V RMS

Notes (Overall)

Notes: Overall jacket sequentially marked.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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