


Product: [7917A](#) 



Composite Data, Audio, Video, Security and Control

Product Description

Siamese Composite, Cat 5 4 PR 24 AWG unshielded plus Series 6 Coax with Duobond® II Shield. Polyolefin Insulation on the pairs; Gas-injected FHDPE Insulation on the coax, Overall F-R PVC jacket.

Technical Specifications

Product Overview

Suitable Applications:	HDTV, DBS, CATV, CCTV, Multimedia, Voice, Video, Data, High Speed Internet, Networked Computing, Distributed Video, Distributed Audio, Security Monitoring, Energy Monitoring
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Pairs	No. of Coax
18 AWG Coax	18	Solid	BC - Bare Copper	0.04 in		1
24 AWG Pairs	24	Solid	BC - Bare Copper	0.02 in	4	

Conductor Count: 9

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PE - Polyethylene (Foam)	0.178 in	0.070 in
PP - Polypropylene	0.035 in	0.0073 in

Insulation, Table Note: Gas Injected

Color 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

Inner Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly / Alum	Bonded Duofoil®	100 %
Braid	2	Aluminum		57 %

InnerShield, Table Note: Tape bonded to dielectric

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.504 in	0.0305 in	Yes

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Inner Shield DCR
93.8 Ohm/km	6.4 Ohm/1000ft	6.4 Ohm/1000ft	9 Ohm/1000ft

Capacitance

Max. Mutual Capacitance	Nom. Capacitance Conductor to Shield	Nom. Mutual Capacitance
17 pF/ft	16.2 pF/ft	15 pF/ft

Inductance

Nominal Inductance
0.097 μ H/ft

Impedance

Nominal Characteristic Impedance
75 Ohm

Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
5-2250 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss	Nom. Structural Return Loss (SRL)
5 MHz	0.5 dB/100ft	15 dB
55 MHz	1.4 dB/100ft	
211 MHz	2.6 dB/100ft	
500 MHz	4.1 dB/100ft	
750 MHz	5.1 dB/100ft	
852 MHz	5.5 dB/100ft	
1000 MHz	6 dB/100ft	
1450 MHz	7.9 dB/100ft	
1800 MHz	8.4 dB/100ft	
2250 MHz	10.1 dB/100ft	

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.2 ns/ft	83 %
	70 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Max./Min. Fitted Impedance
5 MHz	0.67 dB/100ft	62 dB	100 +/- 15%
55 MHz	1.6 dB/100ft	53 dB	100 +/- 15%
211 MHz	2.87 dB/100ft	48 dB	100 +/- 15%
500 MHz	4.48 dB/100ft	47 dB	100 +/- 15%
750 MHz	5.59 dB/100ft	44 dB	100 +/- 15%
862 MHz	5.98 dB/100ft	42 dB	100 +/- 15%
1000 MHz	6.54 dB/100ft	41 dB	100 +/- 15%
1450 MHz	8.3 dB/100ft	39 dB	100 +/- 15%
1800 MHz	9.3 dB/100ft	35 dB	100 +/- 15%
2250 MHz	10.6 dB/100ft	32 dB	100 +/- 15%

Voltage

UL Voltage Rating
300 V RMS

Electrical Characteristics Notes: 5-2250 MHz

Temperature Range

Operating Temp Range: -20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	45.2 lbs/1000ft
Max Recommended Pulling Tension:	92 lbs

Min Bend Radius/Minor Axis:	2.75 in
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Standards

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
ISO/IEC Compliance:	ISO/IEC 11801, Category 5
Telecommunications Standards:	ANSI/TIA/EIA-568-B.2, Category 5
Series Type:	Series 6
Other Specification:	NEMA WC-63.1, Category 5
Other Standards:	ISO/IEC 11801, Category 5; ANSI/TIA/EIA-568-B.2, Category 5

Applicable Environmental and Other Programs

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-03-18
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1581 Vertical Tray
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
7917A 3371000	Green, Light	Reel	1,000 ft	612825001430

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Overall jacket sequentially marked.
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History

Update and Revision:	Revision Number: 0.179 Revision Date: 04-28-2020
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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9