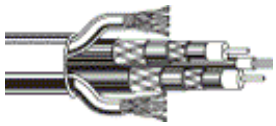
7914A Composite - Composite Data, Audio, Video, Security and Control Cable



For more information please call

1-800-Belden1

See Put-ups and Colors

Description:

Composite - (2)Cat 5 4-pair, 24 AWG unshielded plus (2)Series 6 Coax with Duobond® IV Quad Shield plus (1)2-Fiber LANLite®, polyolefin insulation on the pairs; Gas-injected FPE insulation on the coaxes, F-R PVC jackets, overall F-R PVC jacket.

SUITABLE APPLICATIONS:

Suitable Applications	HDTV, DBS, CATV, CCTV, Multimedia, Voice, Video, Data, High Speed Internet, Networked Computing, Distributed Video, Distributed Audio, Security Monitoring, Energy Monitoring

PHYSICAL CHARACTERISTICS:

COAX:

Number of Coax	2
Series Type (Single Coax)	Series 6
CONDUCTOR :	
Coax AWG	18
Coax Stranding	Solid
Coax Conductor Diameter	.040 in.
Coax Conductor Material	BC - Bare Copper
INSULATION :	
Coax Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Coax Insulation Diameter	.180 in.
OUTER SHIELD :	
Coax Outer Shield Material Trade Name	Duobond® IV
Coax Outer Shield Type	Tape/Braid/Tape/Braid

Coax Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	60
3		Tape	Aluminum Foil-Polyester Tape- Aluminum Foil	100
4		Braid	AL - Aluminum	40

OUTER JACKET :	
Coax Outer Jacket Material	PVC - Polyvinyl Chloride
Coax Outer Jacket Diameter	.298 in.

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Coax Outer Jacket Color Code Chart :

Number	Color
1	Black
2	White

TWISTED PAIR CABLE(S):

CONDUCTOR :

Number of Pairs	8
Twisted Pair AWG	24
Twisted Pair Stranding	Solid
Twisted Pair Conductor Diameter	.020 in.
Twisted Pair Conductor Material	BC - Bare Copper

INSULATION :

Twisted Pair Insulation Material	PO - Polyolefin
Twisted Pair Insulation Diameter	.035 in.

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

OUTER JACKET :

Twisted Pair Outer Jacket Material	PVC - Polyvinyl Chloride
Twisted Pair Outer Jacket Diameter	.195 in.

Twisted Pair Outer Jacket Color Code Chart :

Number	Color
1	Blue
2	Green

TRIAD:

INNER JACKET :

Triad Inner Jacket Material	PVC - Polyvinyl Chloride
Triad Inner Jacket Diameter	.200 in.

FIBER:

Fiber Type	62.5/125/900 Micron
Number of Fibers	2

Fiber Color Code Chart :

Number	Color
1	Blue
2	Orange

OUTER JACKET :

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Fiber Outer Jacket Material	PVC - Polyvinyl Chloride
Fiber Outer Jacket Diameter	.175 in.
Fiber Outer Jacket Color	Orange

OVERALL CABLING:

OUTER SHIELD :

Overall Cabling Outer Shield Material	Unshielded

OUTER JACKET :

Overall Cabling Outer Jacket Material	PVC - Polyvinyl Chloride

OVERALL DIAMETER :

Overall Composite Cabling Nominal Diameter	.660 in.

MECHANICAL CHARACTERISTICS:

OVERALL CABLING:

Overall Cabling Operating Temperature Range	-20°C To +75°C
Overall Cabling Bulk Cable Weight	164 lbs/1000 ft.
Overall Cabling Max. Recommended Pulling Tension	278 lbs.
Overall Cabling Min. Bend Radius (Install)	6.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

COAX:

APPLICABLE STANDARDS :

Coax EU CE Mark (Y/N)	Yes

OVERALL CABLING:

APPLICABLE STANDARDS :

Overall Cabling NEC/(UL) Specification	CMR, OF
Overall Cabling CEC/C(UL) Specification	CMG, OF
Overall Cabling IEC Specification	ISO/IEC 11801, Category 5
Overall Cabling EU RoHS Compliant (Y/N)	Yes
Overall Cabling EU RoHS Compliance (mm/dd/yyyy):	07/01/2005
Overall Cabling TIA/EIA Specification	ANSI/TIA/EIA-568-B.2, Category 5
Overall Cabling Other Specification	NEMA WC-63.1, Category 5

FLAME TEST :

Overall Cabling UL Flame Test	UL1666 Riser
Overall Cabling C(UL) Flame Test	FT4

PLENUM/NON-PLENUM :

Overall Cabling Plenum (Y/N)	N

ELECTRICAL CHARACTERISTICS:

COAX:

Coax Nom. Characteristic Impedance	75 Ohms

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Coax Nom. Inductance	.097 µH/ft
Coax Nom. Capacitance Conductor to Shield	16.2 pF/ft
Coax Nominal Velocity of Propagation	83 %
Coax Nominal Delay	1.2 ns/ft
Coax Nom. Conductor DC Resistance @ 20 Deg. C	6.4 Ohms/1000 ft
Coax Nom. Inner Shield DC Resistance	4.8 Ohms/1000 ft

Coax Minimum Structural Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Structural Return Loss (dB)
		5	1000	20
		1000	2250	15
		2250	3000	10

Coax Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	5			0.5
	55			1.4
	211			2.6
	500			4.1
	750			5.1
	862			5.5
	1000			6.0
	1450			7.8
	1800			8.6
	2250			9.8
	3000			11.3

Coax Max. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
	5			.67
	55			1.60
	211			2.87
	500			4.48
	750			5.59
	862			5.98
	1000			6.54
	1450			8.00
	1800			8.80
	2250			10.0
	3000			11.9

Coax Max. Operating Voltage - UL	350 V RMS

Coax Shield Effectiveness :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Shield Effectiveness (dB)
		5	50	105
		50	1000	110

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TWISTED PAIR CABLE(S):

PREMISE :

Twisted Pair Premise Cable Electricals :

Frequency (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. Structural Return Loss (dB)	Fitted Impedance (Ohms)
1.0	2.0	62	N/A	23	100 +/- 15%
4.0	4.1	53	N/A	23	100 +/- 15%
8.0	5.8	48	N/A	23	100 +/- 15%
10.0	6.5	47	N/A	23	100 +/- 15%
16.0	8.2	44	N/A	23	100 +/- 15%
20.0	9.3	42	N/A	23	100 +/- 15%
25.0	10.4	41	N/A	22	100 +/- 15%
31.25	11.7	39	N/A	21	100 +/- 15%
62.5	17.0	35	N/A	18	100 +/- 15%
100	22.0	32	N/A	16	100 +/- 15%

MULTICONDUCTOR CABLE(S):

Multi-Conductor Nom. Mutual Capacitance @ 1 kHz	15 pF/ft
Multi-Conductor Nominal Velocity of Propagation	70 %
Multi-Conductor Max. Cond.DC Resist. @ 20 Deg. C	9.38 Ohms/100 m
Multi-Conductor Max. Operating Voltage - UL	300 V RMS
Multi-Conductor Other Electrical Characteristic 1	Third party verified to TIA/EIA-568-B.2, Category 5

NOTES:

OVERALL CABLING:

Overall Cabling Notes	Overall jacket sequentially marked. Shielding effectiveness determined from screening attenuation measurement when tested in accordance with IEC 61196-1.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7914A 337500	2#18COAX+8PR#24 PPPVC+2MMFBRPVC	500	88	GREEN, LIGHT	C
7914A 3371000	2#18COAX+8PR#24 PPPVC+2MMFBRPVC	1000	169	GREEN, LIGHT	C

C = CRATE REEL PUT-UP.

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