

7913S Composite - Composite Data, Audio, Video, Security and Control Cable



**For more information please call
1-800-Belden1**

See Put-ups and Colors

Description:

Banana Peel® Composite - (2) Cat 5e 4-pair 24 AWG unshielded plus (2) Series 6 Coax with Duobond® IV Quad shield, polyolefin insulation on the pairs; Gas-injected FPE insulation on the coax, F-R PVC jackets, No overall 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
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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 FPE - Foam 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	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil 100	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	.194 in.
Twisted Pair Outer Jacket Ripcord	Yes

Twisted Pair Outer Jacket Color Code Chart :

Number	Color
1	Blue
2	Green

OVERALL CABLING:

OUTER SHIELD :

Overall Cabling Outer Shield Material	Unshielded
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OUTER JACKET :

Overall Cabling Outer Jacket Material	Unjacketed
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OVERALL DIAMETER :

Overall Composite Cabling Nominal Diameter	.600 in.
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MECHANICAL CHARACTERISTICS:

OVERALL CABLING:

Overall Cabling Operating Temperature Range	-10°C To +75°C
Overall Cabling Separation Temperature Range	0°C To +75°C

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Overall Cabling Bulk Cable Weight	120 lbs/1000 ft.
Overall Cabling Max. Recommended Pulling Tension	278 lbs.
Overall Cabling Min. Bend Radius (Install)	4.25 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

OVERALL CABLING:

Overall Cabling NEC/(UL) Specification	CMR
Overall Cabling CEC/C(UL) Specification	CMG
Overall Cabling IEC Specification	ISO/IEC 11801, Category 5
Overall Cabling EU CE Mark (Y/N)	Yes
Overall Cabling EU RoHS Compliant (Y/N)	Yes
Overall Cabling EU RoHS Compliance (mm/dd/yyyy):	01/01/2004
Overall Cabling TIA/EIA Specification	ANSI/TIA/EIA-568-B.2, Category 5e
Overall Cabling Other Specification	NEMA WC-63.1, Category 5e

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
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ELECTRICAL CHARACTERISTICS:

COAX:

Coax Nom. Characteristic Impedance	75 Ohms
Coax Nom. Inductance	.097 μ H/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	2000	20
	1000	2250	3000	15
	2250	3000		10

Coax Nom. Attenuation :

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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

Coax Other Electrical Characteristic 1

Coax Sweep tested to 3.0 GHz.

TWISTED PAIR CABLE(S):

PREMISE :

Twisted Pair Premise Cable Electricals Table 1 :

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Frequency (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min. Return Loss (dB)	Min. Structural Return Loss (dB)
1.0	2.0		62.3		60	20.0	
4.0	4.1		53.3		49	23.0	
8.0	5.8		48.8		43	24.5	
10.0	6.5		47.3		41	25.0	
16.0	8.2		44.3		36	25.0	
20.0	9.3		42.8		34	25.0	
25.0	10.4		41.3		31	24.3	
31.25	11.7		39.9		28	23.6	
62.5	17.0		35.4		19	21.5	
100	22.0		32.3		11	20.1	

Twisted Pair Premise Cable Electricals Table 2 :

Frequency (MHz)	Input (Unfitted) Impedance (Ohms)	Fitted Impedance (Ohms)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1.0	100 +/- 15%			60.8
4.0	100 +/- 15%			48.7
8.0	100 +/- 15%			42.7
10.0	100 +/- 15%			40.8
16.0	100 +/- 15%			36.7
20.0	100 +/- 15%			34.7
25.0	100 +/- 15%			32.8
31.25	100 +/- 15%			30.9
62.5	100 +/- 15%			24.8
100	100 +/- 15%			20.8

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 5E

NOTES:

OVERALL CABLING:

Overall Cabling Notes	Shielding effectiveness determined from screening attenuation measurement when tested in accordance with IEC 61196-1
Overall Cabling Notes - cont'd.	Banana Peel® US PATENT 7049523.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7913S 000500	2 RG6 QUAD + 2 CAT 5E	500	68.5	NONE	C
7913S 0001000	2 RG6 QUAD + 2 CAT 5E	1000	130	NONE	C

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C = CRATE REEL PUT-UP.

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