

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

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

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
-----------------------	---

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
4		Braid	AL - Aluminum	40

OUTER JACKET :

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

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

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
---------------------------------------	------------

OUTER JACKET :

Overall Cabling Outer Jacket Material	Unjacketed
---------------------------------------	------------

OVERALL DIAMETER :

Overall Composite Cabling Nominal Diameter	.600 in.
--	----------

MECHANICAL CHARACTERISTICS:

OVERALL CABLING:

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

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

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:

APPLICABLE STANDARDS :	
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
------------------------------	---

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	20
		1000	2250	15
		2250	3000	10

Coax Nom. Attenuation :

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

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 :

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

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

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

C = CRATE REEL PUT-UP.

Revision Number: 4 Revision Date: 08-02-2006

© Copyright 2006 Belden, Inc
All Rights Reserved.

Although Belden ("Belden") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs.(San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003);Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.