Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1694S6 Coax - VideoFLEX® Snake Cable for Precision Analog & Digital Video



For more Information please call

1-800-Belden1



General Description:

18 AWG solid .040" bare copper conductors, gas-injected foam HDPE insulation, Duofoil® (100% Coverage) plus a tinned copper braid shield (95% coverage), individual PVC jackets.

Mult, Animation, Special Effects, Suitable for use in Rises hysical Characteristics (Overall) Conductor QCORA_XWO Stranding Conductor Material Dia. (n) 0 © 100 interial 0 Total Number of Conductors: 0 Insulation Material: 0 Insulation Colore 10 0 1 0 0 0 Insulation Material: 0 0 0 Insulation Code Color 10 0 0 1 0 0 0 0 0 Insulation Material: 0 0 0 <	Suitable Applications:	RGB, VGA, SVGA, XGA, SXGA, UXGA, HDTV, LCD, Plasma, Digital Signage, Component Video, Video
Image: Section 2006 Section 2007 0.40 Total Number of Conductors: 6 Total Number of Conductors: 6 Image: Section 2007 100		
AWG: Image: Standing Conductor Mainerial Dia (n) Image: Standing Conductor Mainerial Dia (n) Total Number of Conductors: 0 Total Number of Conductors: Image: Standing Conductor Mainerial Dia (n) Conductors: Image: Standing Conductor Mainerial Dia (n) Coverage (N) Coverage (N) Coverage (N) 2 2 Coverage (N) 2 2 2<	Physical Characteristics (Overall)	
Image: Big Solid BC - Bare Copper 0400 Total Number of Conductors: 6 Total Number of Conductors: 0 Tore Jacket Material: 0 Tore Jacket Material: 0 Tore Jacket Material: 0 Tore Jacket Material: 0 Ductor Jacket Material: 0		
Insulation Insulation Material: Insulation Material: Insulation Material: Insure Shield Mate		
Insulation MaterialDis. (in.)Case-injected FHDPE - Foam High Density Polyethylene 180Itmer Shield Material:Itmer JacketInner Jacket Material:Inner Jacket Material:Outer Jacket Material:Inner Jacket Interner Interne	Total Number of Conductors:	6
Gas-injected FHDPE - Foam High Density Polyethyleme 10 Inter Shield Material: Layer # Infer Shield Take Namo Type Inner Shield Material Coverage (%) 1 Dudolaile Tape Aluminum Foil-Polyester Tape-Aluminum Foil 100 1 Tape Aluminum Foil-Polyester Tape-Aluminum Foil 100 100 1 Tape Aluminum Foil-Polyester Tape-Aluminum Foil 100 100 1 Tape Tape Aluminum Foil-Polyester Tape-Aluminum Foil-Polyester Tape-Aluminum Foil 100 1 Tape Tape Aluminum Foil-Polyester Tape-Aluminum Fo		
Number Shield Material: Coverage (%) 1 Duckil® Tape Auminum Foil-Polyester Tape-Aluminum Foil 100 2 Braid TC - Tinned Copper 95 Inner Jacket Inner Jacket Material Nom. Dia. (in) PVC - Polywing Choride 274 Inner Jacket Material Inner Jacket Material Nom. Dia. (in) PVC - Polywing Choride 274 Inner Jacket Material Numée Color 1 2 Green 3 Blue 4 While 3 Blue 4 While 0 Green 3 Blue 4 While 0 Green 0 Green 0 Souter Jacket Material: 0 Green 0 Green 0 Green 0 Green 0 Green 0 Green		
Layer # Inner Shield Trade Name Type Inner Shield Material Coverage (%) 1 Duofoilie Tape Aluminum Foil-Polyester Tape-Aluminum Foil 100 2 Braid TC - Tinned Copper 95 Inner Jacket Material: Inner Jacket Material: 95 Inner Jacket Material: Inner Jacket Material: Inner Jacket Material: Inner Jacket Color Code Chart: Vision Vision 2 Green 3 Blue 4 White Vision Vision 5 Yellow Vision Vision Outer Jacket Material: 0utor Jacket Material: 0utor Jacket Material: Urgacket Material: 0utor Jacket Material: 0utor Jacket Material: Outer Jacket Material: 0utor Jacket Material: 0utor Jacket Material: Outer Jacket Material: 0utor Jacket Material: 0utor Jacket Material: Outer Jacket Material: 0utor Jacket Material: 0acket Material: Outer Jacket Material: 0acket Material: 0acket Material: Urgacket Material: 0acket Material: 0ac	Inner Shield	
1 Duofoli@ Tape Aluminum Foil-Polyester Tape-Aluminum Foil 100 2 Braid TC - Tinned Copper 95 Inner Jacket Material Inner Jacket Material Inner Jacket Material Inner Jacket Material Inner Jacket Color Codo Chart: Inner Jacket Color Codo Chart: Inner Jacket Color Codo Chart: Inner Jacket Material Outer Jacket Material Unjacketed Overall Cabling Fillers: 0.822 in Overall Cabling Fillers: Bonded Spline Overall Characteristics (Overall) Operating Temperature Range: -35°C To +75°C UL Temperature Range: -35°C To +75°C		Material Coverage (%)
Imer Jacket Imer Jacket Material: Imer Jacket Material: Nom. Dia. (in.) PVC - Polyvinyl Chloride 274 Imer Jacket Material Imer Jacket Material 274 Imer Jacket Color Code Chart: Imer Jacket Color Code Chart: Number Color 1 Red 2 Green 3 Blue 4 White 5 Yellow Outer Jacket Material: Unjacket Material Unjacket Material Unjacket Material Unjacket Material 0.822 in. Overall Cable 0.822 in. Veechanical Characteristics (Overall) 0.822 in. Operating Temperature Range: -35°C To +75°C UL Temperature Rating: 60°C Non-UL Temperature Rating: 75°C Bulk Cable Weight: 291 lbs/1000 ft.		
Imer Jacket Material: Nom. Dia. (in.) PVC - Polyviny Chloride 274 Nom. Dia. (in.) PVC - Polyviny Chloride 274 Imer Jacket Color Code Chart: Immer Jacket Color Code Chart: Imer Jacket Color Code Chart: Number Color Imer Jacket Tale 2 Green 3 3 Blue 4 4 White 5 5 Y ellow Outer Jacket Material: Unjacket Material: Unjacket Material: 0uter Jacket Material: Outer Jacket Material: 0uter Jacket Material:	2 Braid TC - Tinned C	Copper 95
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Operating Temperature Range:-35°C To +75°CUL Temperature Rating:60°CNon-UL Temperature Rating:75°CBulk Cable Weight:291 lbs/1000 ft.	Overall Nominal Diameter:	0.822 in.
Operating Temperature Range:-35°C To +75°CUL Temperature Rating:60°CNon-UL Temperature Rating:75°CBulk Cable Weight:291 lbs/1000 ft.	Achanical Characteristics (Overall)	
Non-UL Temperature Rating: 75°C Bulk Cable Weight: 291 lbs/1000 ft.		-35°C To +75°C
Bulk Cable Weight: 291 lbs/1000 ft.	UL Temperature Rating:	60°C
	Non-UL Temperature Rating:	75°C
Max. Recommended Pulling Tension: 432 lbs.	Bulk Cable Weight:	291 lbs/1000 ft.
	Max. Recommended Pulling Tension:	432 lbs.
	Min. Bend Radius/Minor Axis:	10 in.

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pplicable 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 01/01/2004 Yes			
EU RoHS Compliance Date (mm/dd/yyyy):				
EU Directive 2002/96/EC (WEEE):				
EU Directive 2003/11/EC (BFR):	Yes			
CA Prop 65 (CJ for Wire & Cable):	Yes			
MII Order #39 (China RoHS):	Yes			
RG Type:	6/U			
Applicable Patents:				
Country				
www.belden.com/p				
ame Test				
UL Flame Test:	UL1666 Vertical Shaft			
uitability				
Suitability - Indoor:	Yes			
lenum/Non-Plenum				
Plenum (Y/N):	No			
Inductance (µH/ft)				
om. Characteristic Impedance: Impedance (Ohm) 75 om. Inductance: Inductance (µH/ft) 0.107 om. Capacitance Conductor to Shield: Capacitance (pF/ft) 16.2 ominal Velocity of Propagation: VP (%) 82				
om. Characteristic Impedance: Impedance (Ohm) 75 om. Inductance: Inductance (µH/ft) 0.107 om. Capacitance Conductor to Shield: Capacitance (pF/ft) 16.2 ominal Velocity of Propagation: VP (%) 82 ominal Delay: Delay (ns/ft) 1.24 om. Conductor DC Resistance:				
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Impedance (Ohm) 75 om. Inductance: Inductance (µH/ft) 0.107 om. Capacitance Conductor to Shield: Capacitance (pF/ft) 16.2 ominal Velocity of Propagation: VP (%) 82 ominal Delay: Delay (ns/ft) 1.24 om. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 6.4 om. Inner Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft) 2.8 om. Attenuation: Freq. (MHz) Attenuation (dB/100 ft.) 1.000 0.240 3.580 0.440 5.000 0.520				
Impedance (Ohm) 75 om. Inductance: Inductance (µH/ft) 0.107 om. Capacitance Conductor to Shield: Capacitance (pF/ft) 16.2 ominal Velocity of Propagation: VP (%) 82 ominal Delay: Delay (ns/ft) 1.24 om. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 6.4 om. Inner Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft) 2.8 om. Attenuation: Freq. (MHz) Attenuation (dB/100 ft.) 1.000 0.240 3.580 0.440 5.000 0.520 7.000 0.610				
Impedance (Ohm) 75 om. Inductance: Inductance (µH/ft) 0.107 om. Capacitance Conductor to Shield: Capacitance (pF/ft) 16.2 ominal Velocity of Propagation: VP (%) 82 ominal Delay: Delay (ns/ft) 1.24 om. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 6.4 om. Inner Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft) 2.8 om. Attenuation: Freq. (MHz) Attenuation (dB/100 ft.) 1.000 0.240 3.580 0.440 5.000 0.520				
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Impedance (Ohm) 75 Iom. Inductance: Inductance (µH/ft) 0.107 Iom. Capacitance conductor to Shield: Capacitance (pF/ft) 16.2 Iominal Velocity of Propagation: VP (%) 82 Iominal Delay: Delay (ns/ft) 1.24 Iom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 6.4 Iom. Inner Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft) 2.8 Iom. Attenuation: Freq. (MHz) Attenuation (dB/100 ft.) 1.000 0.520 7.000 0.610 10.000 0.710 67.500 1.650				

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4500.000	14.920
3000.000	11.780
2250.000	10.010
2000.000	9.370
1500.000	7.990
1000.000	6.420
750.000	5.500
720.000	5.380
540.000	4.600
360.000	3.690
270.000	3.170
180.000	2.570
143.000	2.300

Max. Operating Voltage - UL:



Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination

Other Electrical Characteristic 2:

Return Loss Tested in Accordance With ASTM D-4566 Paragraph 45.3, Using a 75 Ohm Fixed Bridge and Termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	430	20
430	510	15
510	1600	20
1600	4500	15

Sweep Test

Sweep Testing:

Sweep tested 5 MHz to 4.5 GHz

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1694S6 0001000	1,000 FT	333.000 LB	NONE	С	BONDED FILLER COMPOSITE
1694S6 000500	500 FT	184.000 LB	NONE	С	BONDED FILLER COMPOSITE

Notes: C = CRATE REEL PUT-UP

Revision Number: 2 Revision Date: 02-28-2014

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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.