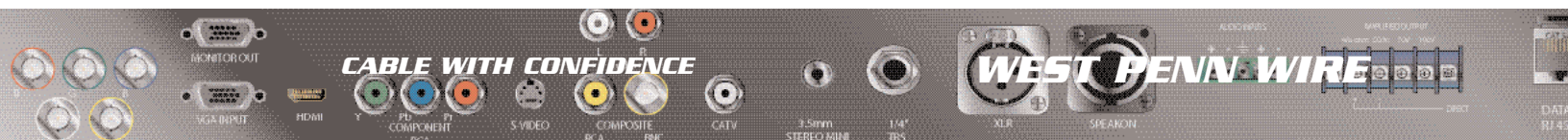


WEST PENN WIRE

PROFESSIONAL VIDEO CABLES

COMBINED WITH ACCESSORIES

RGBHV	5 Coax design
VGA	5 Coax design
RGB	3 Coax design
S-Video	2 Coax design
Composite	1 Coax design
Digital Signage	4 Pair UTP design
HDMI	HDMI design





RGB/HV - Red, Green, Blue, Horizontal, and Vertical Sync

Application: Connection between video scalers and PC's to Plasma screens, Projectors or other video output devices.

Connection: 75 Ohm BNC

Each component signal is carried over individual coaxial cables. - 5 Coaxial Cables (RGBHV)

Distances: Determined by the guage of the RGB cables and the resolution of the video signals.

Cable Design:

5 Coaxial cables - ranging from 26AWG to 18AWG.

Popular WPW P.N. Non-Plenum: 5CRGB, WP8195

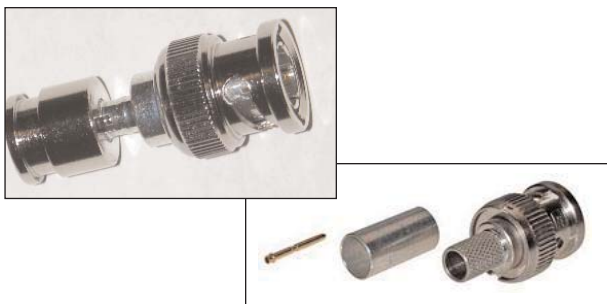
Plenum: 255CRGB, WP258265, WP258195

Connectors:

75 ohm BNC (Bayonet Neil Councilmen) - Keyed Locking

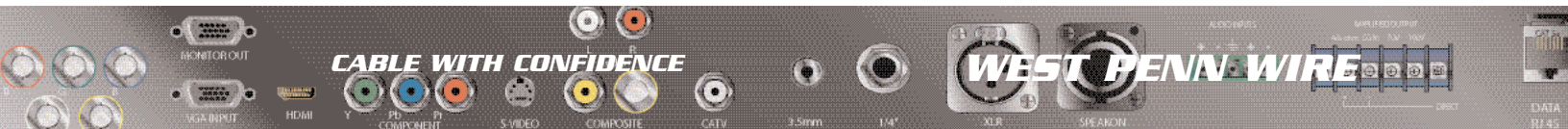
In video systems, proper impedance matching is suggested. 75 ohm cable combined with 75 ohm connectors.

75 ohm BNC Connectors: Crimp style connections are the best mechanical and electrical connection between a cable and the equipment. But there has been a push towards compression style connection because of ease of use and tooling issues. West Penn Wire provides both crimp and compression BNC connectors.



75 ohm: Dielectric inside connector body - Teflon

50 ohm: Dielectric to the face of the connector





B VGA- Video Graphic Array - VGA has a resolution of 640x480. There are many other higher resolution applications such as XGA (1024x768) that our RGB/HV -VGA cables can handle.

Mostly Analog Systems

Application: Connection between PC's to plasmas and projectors.

Connection: 15 Pin High Density - HD15

Distances: Determined by the gauge of the RGB cables and the resolution of the video signals.

Cable Design:

5 coaxial cable design

Popular WPW P.N. Non-Plenum: 5CRGB, WP8195

Plenum: 255CRGB, WP258265, WP258195

Connectors:

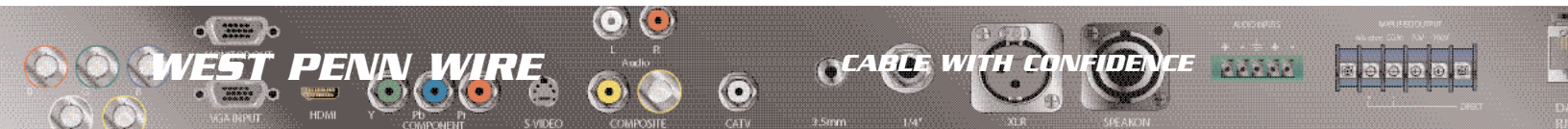
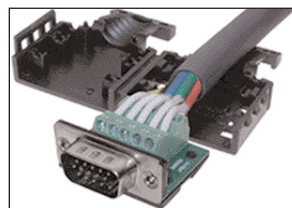
HD15 - High Density 15 Pin - Posts for secure connections

The HD15 connector is the de facto standard connection in PC Graphic, and monitors. The HD15 Connector is use in VGA applications. The connections are available in Chasis(Panel mount) and cable mount.

The Panel mount connections are available in Feed Thru design or Terminal Block (Pheonix) style.



The Cable mounts connections are available in Solder Style or Terminal Block (Pheonix) style.





D RGB - Component Video - also known as analog component video is transmitted as three separate signals (Subsignals) to represent all colors. The human eye can only detect Red, Green and Blue and the combination of these colors.

Signal separation: Red, Green + Sync info, Blue over three coaxial cables

Applications: Consumer Analog Televisions for resolutions up to 1080i
Also known as: Y,Pb,Pr - Analog YUV

Connections: RCA or BNC

Cable Design:

See RGBHV

3 coaxial design under one jacket-

Popular WPW P.N. Non-Plenum: 3CRGB

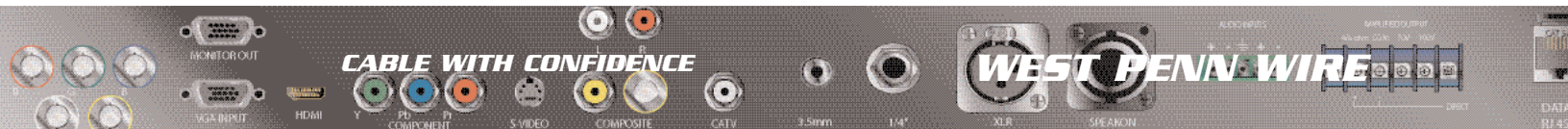
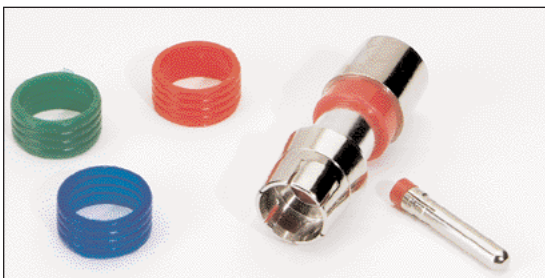
Plenum: 253CRGB, WP258263

Connectors:

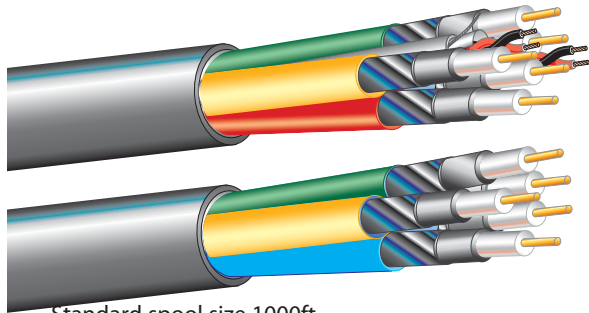
RCA - Radio Corp. of America

Used for Video and also audio applications. RCA connectors are not by nature 75ohms. They were created to carry 30-55ohm audio cable signals. Most of today's RCA video connectors are close to the 75ohms need to keep the impedance of a system.

RCA cable mount connectors are available in Compression style from West Penn Wire.
RCA Panel mount are available in feed thru or solder back type for the audio connections.



Mini High Rez Video Cables



Standard spool size 1000ft.

Component Video Cable RGB 25 Awg. Spiral Shielded Cables

Applications:

- Standard Definition Serial Digital Video
- Digital Audio(AES3id or SPDIF)
- High Resolution RGB Component Analog Video
- Studio Interconnect, Permanent Installation
- Ideal for Broadcast interconnection



Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type Inches	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Overall Jacket Color
3CRGB 3 Coax RGB	CM	3 Conductor 25 AWG (Solid) BC 32.5Ω/M'	Gas Injected PE† .073	Bifoil* 100% + TC Spiral Shield 95%	Overall PVC Ind. Coax PVC .105	.290	16.2 pf/ft	82%	75Ω	Black
5CRGB 5 Coax RGBHV	CM	5 Conductor 25 AWG (Solid) BC 32.5Ω/M'	Gas Injected PE† .073	Bifoil* 100% + TC Spiral Shield 95%	Overall PVC Ind. Coax PVC .105	.330	16.2 pf/ft	82%	75Ω	Black
6CRGB2P 6 Coax RGBHV + Composite + 2 Pair Audio	CM	6 Cond. 25 AWG (Solid) BC 32.5Ω/M'	Gas Injected PE† .073	Bifoil* 100% + TC Spiral Shield 95%	Overall PVC Ind. Coax PVC .105	.410	16.2 pf/ft	82%	75Ω	Black
		Twisted Pair Construction 2 Pair 22 Awg. (7x30) Bare Copper, Shielded, PVC Jackets (Black, Red)								
6CRGB4P 6 Coax RGBHV + Composite + (1) - 4 Pair Cat 5E	CM	6 Cond. 25 AWG (Solid) BC 32.5Ω/M'	Gas Injected PE† .073	Bifoil* 100% + TC Spiral Shield 95%	Overall PVC Ind. Coax PVC .105	.450	16.2 pf/ft	82%	75Ω	Black
		Category 5E Construction One 4 Pair 24 Awg. Solid Bare Copper, Unshielded, PVC Jacket- Gray								

Individual Jacket Colors

Coax 1 : Red Coax 2 : Green
Coax 3 : Blue Coax 4 : White
Coax 5 : Yellow Coax 6 : Black

Connectors and Tools

Connector Type	Connectors	Strip Tool	Crimp/Comp Tool
75Ω 3 Pc. Crimp BNC	CN-BM74-19	TL-KLEIN or TL-825	TL-105
75Ω Compression BNC	CN-BNCP-RGB	TL-KLEIN or TL-CSST	TL-548G
RCA Compression	CN-RCP-RGB	TL-KLEIN or TL-CSST	TL-548G

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz 1GHz- 3GHz	Attenuation (db/100ft)											
		1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	540 MHz	720 MHz	1 GHz	2.25 GHz	3 GHz
25 Awg	>23dB >21dB	.49	1.18	1.7	4.56	6.10	8.46	10.04	12.09	14.14	17.85	24.60	38.81

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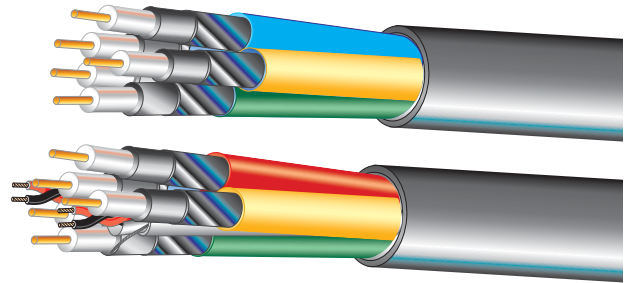
Plenum Mini-Rez Video Cables

Component Video Cable

RGB 25 Awg. Spiral Shielded Plenum Cables

Applications:

- Standard Definition Serial Digital Video
- Digital Audio(AES3id or SPDIF)
- High Resolution RGB Component Analog Video
- Studio Interconnect, Permanent Installation
- Ideal for Broadcast interconnection



Standard pool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type		Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Overall Jacket Color
					Inches	Inches				
253CRGB 3 Coax RGB Plenum	CMP	3 Conductor 25 AWG (Solid) BC 32.5Ω/M'	Foam FEP .073	Bifoil* 100% + TC Spiral Shield 95%	Overall Flex Plenum	.260	16.2 pf/ft	82%	75Ω	Black
					Ind. Coax Flex Plenum	.105				
255CRGB 5 Coax RGBHV Plenum	CMP	5 Conductor 25 AWG (Solid) BC 32.5Ω/M'	Foam FEP .073	Bifoil* 100% + TC Spiral Shield 95%	Overall Flex Plenum	.310	16.2 pf/ft	82%	75Ω	Black
					Ind. Coax Flex Plenum	.105				
256CRGB2P 6 Coax RGBHV + Composite + 2 Pair Audio Plenum	CMP	6 Cond. 25 AWG (Solid) BC 32.5Ω/M'	Foam FEP .073	Bifoil* 100% + TC Spiral Shield 95%	Overall Flex Plenum	.395	16.2 pf/ft	82%	75Ω	Black
					Ind. Coax Flex Plenum	.105				
		Twisted Pair Construction 2 Pair 22 Awg. (7x30) Bare Copper, Shielded, Plenum PVC Jackets (Black, Red)								

Additional Accessories- Pages 102-126

VGA Cable Assemblies: Pg.104-105
 VGA- HD15 Connectors: Pg.109
 RCA Connectors: Pg.111
 Installation Kits: Pg.106-108

Connectors and Tools

Connector Type	Connectors	Strip Tool	Crimp/Comp Tool
75Ω 3 Pc. Crimp BNC	CN-BM74-19	TL-KLEIN or TL-825	TL-105
75Ω Compression BNC	CN-BNCP-RGB	TL-KLEIN or TL-CSST-RGB	TL-548G
RCA Compression	CN-RCP-RGB	TL-KLEIN or TL-CSST-RGB	TL-548G

3 COAX Component Video RGB RCA Economy	
Catalog No.	Description
CN-E3RCA-xx	3 COAX PVC RGB Replace xx with: 3,6,12 feet

3 Miniature Component Video 26Awg. RCA Plenum		
Catalog No.	Description	Length (FT)
CN258263RCAxx	3 COAX PVC RGB	Replace xx with: 12, 25,50,75,100,150



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RGBHV Cable Assemblies

5 - R6/U RGBHV PVC 75Ω BNC

Catalog No.	Description	Length (FT)
CN-6355-xx	5 COAX PVC RGBHV 5 BNC (M) to 5 BNC (M)	Replace xx with: 12, 25,50,75,100,150

5 - R59/U RGB PVC 75Ω BNC

Catalog No.	Description	Length (FT)
CN-8195-xx	5 COAX PVC RGBHV 5 BNC (M) to 5 BNC (M)	Replace xx with: 12, 25,50,75,100,150

5 - R59/U RGBHV Plenum 75Ω BNC

Catalog No.	Description	Length (FT)
CN-258195-xx	5 COAX PVC RGBHV 5 BNC (M) to 5 BNC (M)	Replace xx with: 12, 25,50,75,100,150

5 - Miniature RGBHV PVC 75Ω BNC

Catalog No.	Description	Length (FT)
CN-5CRGB-xx	5 COAX PVC RGBHV 5 BNC (M) to 5 BNC (M)	Replace xx with: 12, 25,50,75,100,150

5 - Miniature RGBHV Plenum 75Ω BNC

Catalog No.	Description	Length (FT)
CN-255CRGB-xx	5 COAX Plenum RGBHV 5 BNC (M) to 5 BNC (M)	Replace xx with: 12, 25,50,75,100,150

3 - Miniature RGB 25Awg. PVC 75Ω BNC

Catalog No.	Description	Length (FT)
CN-3CRGB-xx	3 COAX Plenum RGB 3 BNC (M) to 3 BNC (M)	Replace xx with: 12, 25,50,75,100,150

3 - Economy RGB PVC 75Ω BNC

Catalog No.	Description	Length (FT)
CN-E3BNC-xx	3 COAX PVC RGB 3 BNC (M) to 3 BNC (M)	Replace xx with: 3,6,12

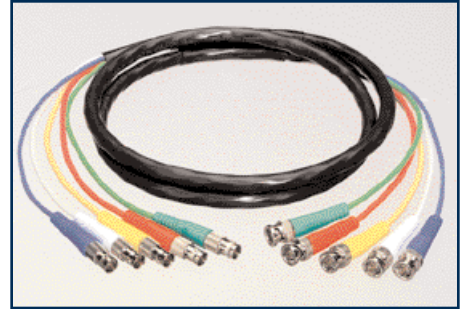
HD15(M) to 5-BNC (F) Economy

Catalog No.	Description	Length (FT)
CN-EVGA-xx	ECONOMY HD15 (M) to 5 BNC (F)	Replace xx with: 1,3,6,10,15

HD15(M) to HD15(M) Economy

Catalog No.	Description	Length (FT)
CN-VGAMM-xx	HD15 Male to HD15 Male	Replace xx with: 6,10,25,50

RGBHV- 5 Coaxial Cable 75 Ohm BNC

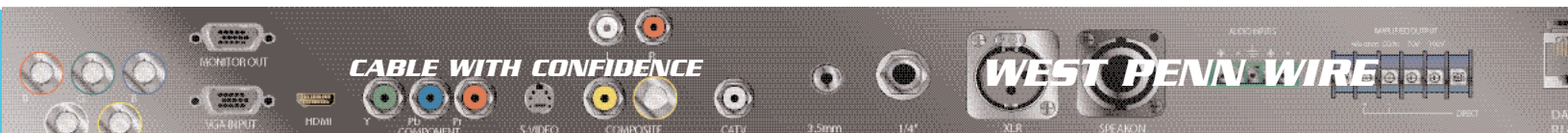


RGB- 3 Coaxial Cable 75 Ohm BNC- Component Video

HD15 to BNC and HD15 to HD15



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RGBHV & VGA Assemblies/Connectors

VGA- HD15 To HD15 or BNC

255CRGB- 5 Coax RGBHV 25Awg. Plenum



5 - 25Awg RGB BNC to HD15(F) Plenum		
Catalog No.	Description	Length (FT)
CN255CRGBHDFxx	5 BNC (M) to HD15 (F)	Replace xx with: 25,50,75,100,150

5 - 25Awg RGB BNC to HD15(M) Plenum		
Catalog No.	Description	Length (FT)
CN255CRGBHDMxx	5 BNC (M) to HD15 (M)	Replace xx with: 25,50,75,100,150

VGA 5 - 25Awg RGB HD15(F) to HD15(M) Plenum		
Catalog No.	Description	Length (FT)
CN255CRGHDFMxx	HD15 (F) to HD15 (M)	Replace xx with: 25,50,75,100,150

VGA 5 - 25Awg RGB HD15(M) to HD15(M) Plenum		
Catalog No.	Description	Length (FT)
CN255CRGHDMMxx	HD15 (M) to HD15 (M)	Replace xx with: 25,50,75,100,150

HD15 - VGA- with Audio 3.5mm Cable Assemblies

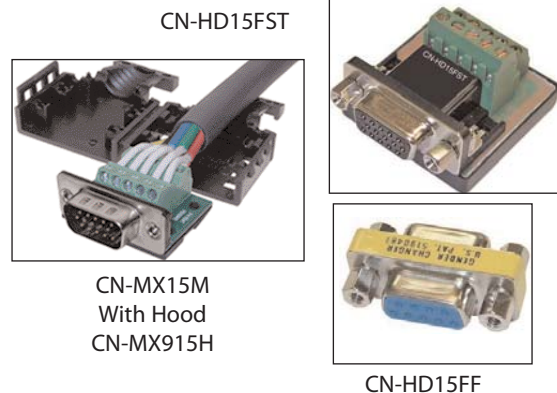
VGA with Audio		
Catalog No.	Description	Length (FT)
CN-HDVGAAP-xx	VGA with Audio HD15 (M) + 3.5mm Audio	Replace xx with: 6,10,25



Video Connectors

HD15- VGA And DB9

HD15 Terminal Block Connectors	
Catalog No.	Description
CN-HD15FST	HD15(F) Terminal Block
CN-MX15F	PREMIUM HD15(F) Terminal Block
CN-MX15M	PREMIUM HD15(M) Terminal Block
CN-MX9F	PREMIUM DB9 (F) Terminal Block RS-232
CN-MX9M	PREMIUM DB9 (M) Terminal Block- RS-232
CN-MX915H	Hood for PREMIUM Terminal Blocks
CN-HD15FF	HD15 Feed Thru



DB and HD connectors and hoods	
Catalog No.	Description
40-9709HS	9 Pin DB Sub Hood - BLACK HOOD
40-9515HDM	15 Pin HD Male Solder
40-9515HDS	15 Pin HD Female Solder

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BNC Connectors

Video Connectors

75 Ohm BNC Crimp Style

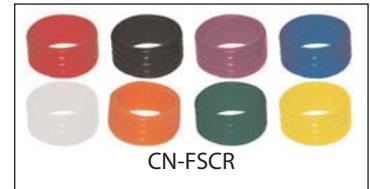


75 Ohm BNC Crimp Style	
Catalog No.	Description
CN-BM74-19	4 Pc. Miniature RGBHV 25 & 26 AWG
CN-BM74-18	4 Pc. Minimax 25 AWG Miniature
CN-BM74-32	4 Pc. RG59/U PVC or Plenum
CN-BM73-5	3 Pc. RG6/U PVC
CN-BM73-4	3 Pc. RG6/U Plenum
CN-BM73-3	3 Pc. P806 Connector
CN-BF74-18	4 Pc. Female Minimax Miniature

Video Connectors

75 Ohm BNC Compression Style

75 Ohm BNC Compression Style	
Catalog No.	Description
CN-FS1BNC	1 Pc. Miniature RGBHV 25Awg.
CN-CSBNC-26	Multi-Piece Miniature 26Awg. RGBHV
CN-CSBNC-25	Multi-Piece Miniature 25Awg. RGBHV
CN-CSBNC-59	1 Pc. RG59/U PVC
CN-FS59BNCPL4	1 Pc. RG59/U Plenum
CN-CSBNC-6	1 Pc. RG6/U PVC
CN-FS6BNCPL2	1 Pc. RG6/U Plenum
CN-CSBNC-11	RG11/U
CN-FSCR	Colored Rings- Bag of 100- for ICM
75 Ohm BNC Compression Style- Window	
CN-BNCP-RGB	1 Pc. Miniature 25Awg. RGB- Window
CN-BNCP-825	1 Pc. MiniMax 25Awg. Window
CN-BNCP-59	1 Pc. RG59/U Window
CN-BNCP-6	1 Pc. RG6/U Window
CN-RR	Colored Rings- Bag of 100- for small profile



Small Profile Compression Design

Video Connectors

75 Ohm BNC Compression Style-Double Bubble- High Definition



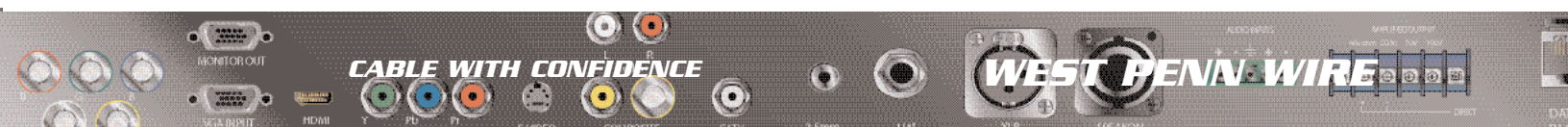
BNC Style Compression- 360 Double Bubble	
Catalog No.	Description
CN-DB1BNCHD	25 Awg. RGB Cables - Orange Band
CN-DB15BNCHD	MiniMax 25 Awg. Cables- Purple Band
CN-DB59BNCHD	RG59/U - Red Band
CN-DB6BNCHD	RG6/U - Green Band

TL-CPLRBC- Double Bubble Compression Tool

360 Compression System:

- True 360 degree Compression
- Creates Permanent "Double Bubble" Connection
- Environmentally Sealed
- Superior Return Loss Values
- 75 Ohm Impedance
- Superior Pull-out Strength
- High Definition Applications

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RCA Connectors and Assemblies

Audio/Video Connectors RCA Compression Style



Small
Profile
Compression
Design

RCA Style - Compression	
Catalog No.	Description
CN-FS1RCA	1 Pc. Miniature RGB 25Awg.
CN-CSRCA-26	Multi-Piece 26Awg. RGB
CN-CSRCA-25	Multi-Piece MiniMax 25Awg.
CN-CSRCA-59	Multi-Piece RG59/U
CN-FS59RCAPL4	Multi-Piece RG59/U Plenum
CN-CSRCA-6	Multi-Piece RG6/U
CN-FS6RCAPL2	Multi-Piece RG6/U Plenum
RCA Style - Compression - Window	
CN-RCP-RGB	1 Pc. Miniature RGB 25Awg. Window
CN-RCP-825	1 Pc. MiniMax 25Awg. RCA Window
CN-RCP-823	1 Pc. Mini RG59/U 23AWG. Window RCA Window
CN-RCP-59	1 Pc. RG59/U Window RCA Window
CN-RCP-6	1 Pc. RG6/U Window RCA Window
CN-DB6RCAPL2	Double Bubble- RG6/U Plenum

TL-CPLRBC- Double Bubble Compression Tool

Pro-Audio/Video and Digital Video Cable Assemblies:

75 Ohm BNC to 75 Ohm BNC

Digital Video MiniMax Non-Plenum		
Catalog No.	Length	Jacket Colors
CN7BHD825**3	3 Foot	**- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH
CN7BHD825**6	6 Foot	
CN7BHD825**10	10 Foot	
CN7BHD825**15	15 Foot	
CN7BHD825**20	20 Foot	
CN7BHD825**25	25 Foot	

Digital Video MiniMax Plenum		
Catalog No.	Length	Jacket Colors
CN-HD25825**-3	3 Foot	**- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH
CN-HD25825**-6	6 Foot	
CN-HD25825**-10	10 Foot	
CN-HD25825**-15	15 Foot	
CN-HD25825**-20	20 Foot	
CN-HD25825**-25	25 Foot	

Digital Video RG59/U Non-Plenum		
Catalog No.	Length	Jacket Colors
CN-7B819**-3	3 Foot	**- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH
CN-7B819**-6	6 Foot	
CN-7B819**-10	10 Foot	
CN-7B819**-15	15 Foot	
CN-7B819**-20	20 Foot	
CN-7B819**-25	25 Foot	

Pro-Audio/Video and Digital Video Cable Assemblies:

RCA to RCA

Digital Video MiniMax Non-Plenum		
Catalog No.	Length	Jacket Colors
CNHD825**RCA3	3 Foot	**- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH
CNHD825**RCA6	6 Foot	
CNHD825**RCA10	10 Foot	
CNHD825**RCA15	15 Foot	
CNHD825**RCA20	20 Foot	
CNHD825**RCA25	25 Foot	

Digital Video MiniMax Plenum		
Catalog No.	Length	Jacket Colors
CNHD25825**R3	3 Foot	**- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH
CNHD25825**R6	6 Foot	
CNHD25825**R10	10 Foot	
CNHD25825**R15	15 Foot	
CNHD25825**R20	20 Foot	
CNHD25825**R25	25 Foot	





E SVHS- S-Video - Super Video - Separates the luminance (Video brightness info) and chrominance (Color info) into two coaxial cables. SVHS is an analog video signal that carries the video as two separate signals. SVHS carries bandwidth video 480i resolution

Signal separation: two coaxial cables

Applications: S-Video Connections
Also known as: Y/C

Connections: 4 Pin Mini Din or 2-BNC

Cable Design:

See RGBHV

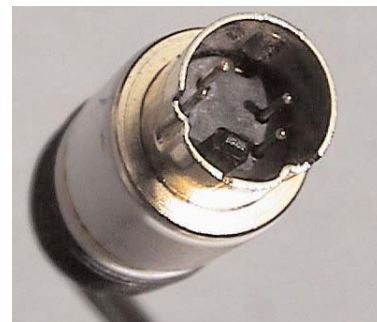
2 coaxial design under one jacket- or Siamese

Popular WPW P.N. Non-Plenum: 2825

Plenum: 252CSVHS

Connectors:

4 Pin Mini Din or 2- 75ohm BNC's

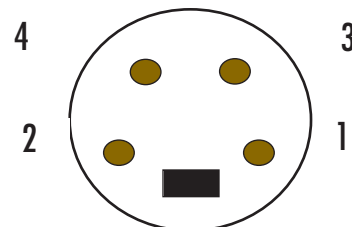


This connector is used for video distribution. The 4 Pin Mini Din cable mount connectors are normally terminated using a soldering technique. Panel mounts are available in both feed thru and terminal block (Phoenix) style.



Connector: 4 Pin Mini Din using 75Ω termination.

- 1. GND- (Y) Luma
- 2. GND-(C) Chroma
- 3. Intensity - Luminance
- 4. Color - Chrominance



Pin Drawing:
Rear View

SVHS Video Cables

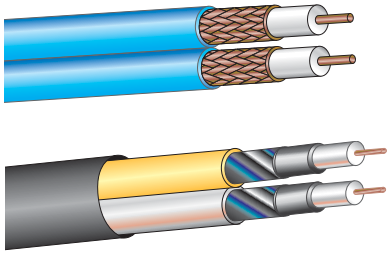
S-Video Video Cable SVHS - S-Video Cable

Applications:

- Pro-Video
- SVHS
- CCTV

Standard spool size 1000ft.

SVHS Accessories: Page 103



Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color
2825 Dual SVHS MiniMax	CM	25 AWG (Solid) BC 30Ω/M'	Gas Injected PE+ .085	Bare Copper Braid 95%	PVC	.146 x .302	16.2 pf/ft	82%	75Ω	Blue
						Connector Type 75Ω BNC 4 Pin Mini Din				
252825 Dual SVHS MiniMax Plenum	CMP	25 AWG (Solid) BC 30Ω/M'	Foam FEP .078	Bare Copper Braid 95%	Flexible Plenum	.146 x .302	16.2 pf/ft	82%	75Ω	Blue
						Connector Type 75Ω BNC 4 Pin Mini Din				
252CSVHS Dual SVHS Plenum	CMP	25 AWG (Solid) BC 32.5Ω/M'	Foam FEP .078	Bare Copper Braid 95%	Flexible Plenum	.150 x .260	16.2 pf/ft	82%	75Ω	Black
						Connector Type 75Ω BNC 4 Pin Mini Din				

Notes: 252CSVHS

Overall Black Jacket
Yellow Coax- Luminance
White Coax- Chrominance

Electrical Specifications

Catalog No.	Return Loss 100kHz- 1GHz	Attenuation (db/100ft)											
		1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	1 GHz	--	--	--	--
25 Awg	>23dB	.5	1.80	3.12	4.19	5.79	8.59	11.14	14.41	--	--	--	--

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F Composite Video with combination of L/R
 Composite video combines all video info, brightness, and color onto one coaxial cable

Signal separation: 1 coaxial cable

Applications: Standard video signalling, all video signals

Also known as: Y,Pb,Pr - Analog

Connections: RCA or BNC

Cable Design:

1 Coaxial Cable with 100% foil + 95% tinned braid

1 coaxial design under one jacket-

Popular WPW P.N. Non-Plenum: HD825, 819

Plenum: HD25825, 25819

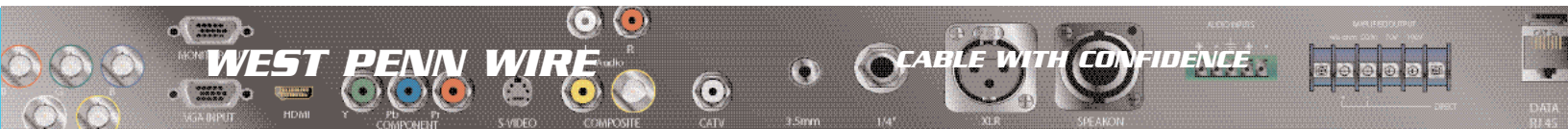
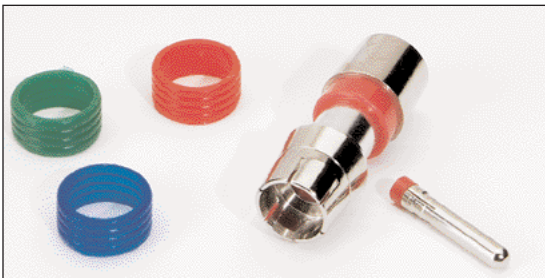
Connectors:

RCA - Radio Corp. of America

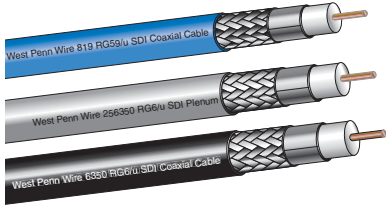
Used for Video and also audio applications. RCA connectors are not by nature 75ohms. They were created to carry 30-55ohm audio cable signals. Most of today's RCA video connectors are close to the 75ohms need to keep the impedance of a system.

RCA cable mount connectors are available in Compression style from West Penn Wire.

RCA Panel mount are available in feed thru or solder back type for the audio connections.



SDI HD Video Composite Cables



Applications:

- Digital Video-SDI
- AES3id & SPDIF Digital Audio
- CCTV
- CATV

Broadcast Video Cable Pro-Video/ Serial Digital SDI

Standard pool size 1000ft.

Catalog No.	NEC Type	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding & % Coverage	Jacket Type	Nom. O.D. Inches	Nom. Capacitance	Nom. VP	Nom. Imp. Ω	Jacket Color			
HD825	CMR	25 AWG (Solid) BC 30Ω/M'	Gas Injected PE+ .085	Bifoil 100% Tinned Copper Braid 95%	PVC	.146	16.2 pf/ft	82%	75Ω	Black			
					<table border="1"> <tr> <th>Connector Type</th> <th>Connectors</th> <th>Strip Tool</th> <th>Crimp/Comp Tool</th> </tr> <tr> <td>75Ω 3 Pc. Crimp BNC</td> <td>CN-BM74-18</td> <td>TL-KLEIN or TL-825</td> <td>TL-105</td> </tr> <tr> <td>75Ω Compression BNC</td> <td>CN-BNCP-825</td> <td>TL-CSST</td> <td>TL-548G</td> </tr> </table>						Connector Type	Connectors	Strip Tool
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75Ω Compression BNC	CN-BNCP-825	TL-CSST	TL-548G										
HD25825	CMP	25 AWG (Solid) BC 30Ω/M'	Foam FEP .078	Bifoil 100% Tinned Copper Braid 95%	Flex	.146	16.2 pf/ft	82%	75Ω	Black			
					Plenum						<table border="1"> <tr> <th>Connector Type</th> <th>Connectors</th> <th>Strip Tool</th> <th>Crimp/Comp Tool</th> </tr> <tr> <td>75Ω 3 Pc. Crimp BNC</td> <td>CN-BM74-18</td> <td>TL-KLEIN or TL-825</td> <td>TL-105</td> </tr> <tr> <td>75Ω Compression BNC</td> <td>CN-BNCP-825</td> <td>TL-CSST</td> <td>TL-548G</td> </tr> </table>	Connector Type	Connectors
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75Ω Compression BNC	CN-BNCP-825	TL-CSST	TL-548G										
819	CMR	20 AWG (Solid) BC 10Ω/M'	Gas Injected PE+ .142	Bifoil 100% Tinned Copper Braid 95%	PVC	.232	16.2 pf/ft	82%	75Ω	BK,RD, GN, BL, YE, WH			
					<table border="1"> <tr> <th>Connector Type</th> <th>Connectors</th> <th>Strip Tool</th> <th>Crimp/Comp Tool</th> </tr> <tr> <td>75Ω 3 Pc. BNC</td> <td>CN-BM74-32</td> <td>TL-CSST</td> <td>TL-104</td> </tr> <tr> <td>75Ω Compression BNC</td> <td>CN-CSBNC-59</td> <td>TL-CSST</td> <td>TL-SNSA</td> </tr> </table>						Connector Type	Connectors	Strip Tool
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75Ω 3 Pc. BNC	CN-BM74-32	TL-CSST	TL-104										
75Ω Compression BNC	CN-CSBNC-59	TL-CSST	TL-SNSA										
25819	CMP	20 AWG (Solid) BC 10Ω/M'	Foam FEP .138	Bifoil 100% Tinned Copper Braid 95%	Flex	.207	16.2 pf/ft	84%	75Ω	Ivory			
					Plenum						<table border="1"> <tr> <th>Connector Type</th> <th>Connectors</th> <th>Strip Tool</th> <th>Crimp/Comp Tool</th> </tr> <tr> <td>75Ω 3 Pc. Crimp BNC</td> <td>CN-BM74-32</td> <td>TL-7503</td> <td>TL-104</td> </tr> <tr> <td>75Ω Compression BNC</td> <td>CN-F559BNCPL4</td> <td>TL-CSST</td> <td>TL-SNSA</td> </tr> </table>	Connector Type	Connectors
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75Ω 3 Pc. Crimp BNC	CN-BM74-32	TL-7503	TL-104										
75Ω Compression BNC	CN-F559BNCPL4	TL-CSST	TL-SNSA										
6350	CMR	18 AWG (Solid) BC 6.4Ω/M'	Gas Injected PE+ .180	Bifoil 100% Tinned Copper Braid 95%	PVC	.275	16.2 pf/ft	82%	75Ω	BK,RD, GN, BL, YE, WH			
					<table border="1"> <tr> <th>Connector Type</th> <th>Connectors</th> <th>Strip Tool</th> <th>Crimp/Comp Tool</th> </tr> <tr> <td>75Ω 3 Pc. Crimp BNC</td> <td>CN-BM73-5</td> <td>TL-7503</td> <td>TL-107</td> </tr> <tr> <td>75Ω Compression BNC</td> <td>CN-CSBNC-6</td> <td>TL-CSST</td> <td>TL-SNSA</td> </tr> </table>						Connector Type	Connectors	Strip Tool
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75Ω 3 Pc. Crimp BNC	CN-BM73-5	TL-7503	TL-107										
75Ω Compression BNC	CN-CSBNC-6	TL-CSST	TL-SNSA										
256350	CMP	18 AWG (Solid) BC 6.4Ω/M'	Foam FEP .170	Bifoil 100% Tinned Copper Braid 95%	Flex	.236	16.2 pf/ft	84%	75Ω	Ivory			
					Plenum						<table border="1"> <tr> <th>Connector Type</th> <th>Connectors</th> <th>Strip Tool</th> <th>Crimp/Comp Tool</th> </tr> <tr> <td>75Ω 3 Pc. Crimp BNC</td> <td>CN-BM73-4</td> <td>TL-7503</td> <td>TL-107</td> </tr> <tr> <td>75Ω Compression BNC</td> <td>CN-F56BNCPL2</td> <td>TL-CSST</td> <td>TL-SNSA</td> </tr> </table>	Connector Type	Connectors
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75Ω 3 Pc. Crimp BNC	CN-BM73-4	TL-7503	TL-107										
75Ω Compression BNC	CN-F56BNCPL2	TL-CSST	TL-SNSA										
P806	--	20 AWG (Solid) BC 10Ω/M'	Solid PE .180	2- Tinned Copper Braid 96% each	PE	.305	21.0 pf/ft	66%	75Ω	Black			
					<table border="1"> <tr> <th>Connectors</th> </tr> <tr> <td>75Ω 3 Pc. BNC - CN-BM73-3</td> </tr> </table>						Connectors	75Ω 3 Pc. BNC - CN-BM73-3	
Connectors													
75Ω 3 Pc. BNC - CN-BM73-3													

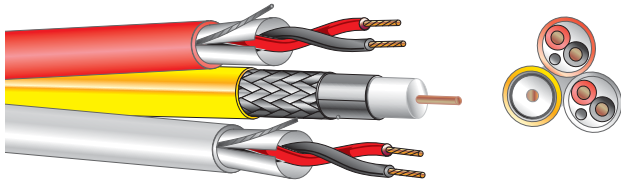
SDI JACKET COLORS

Note: A minimum order quantity may apply on select jacket colors.

- Black • Red • Green • Blue • White • Yellow
- Other colors available upon request, minimum quantities may apply

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AV Cables



Composite Audio/ Video Cables

Applications:

- Audio and Video

Standard spool size 1000ft.

Catalog No.	Cable Types	Application	Connectors	NEC Type	Nom. Jacket O.D. & Color
LSAV	1- MiniMax SDI Coaxial Cable 2- 1 Pair 22 AWG Shielded Cables	Video	CN-CSRCA-25 19-1207- Red 19-1268-Black	CM	.316 " Unjacketed Lickity Split Bondled Cable
		Audio			
LS25AV	1- MiniMax SDI PlenumCoaxial Cable 2- 1 Pair 22 AWG Shielded Cables- Plenum	Video	CN-CSRCA-25 19-1207- Red 19-1268-Black	CMP	.300" Unjacketed Lickity Split Bondled Cable
		Audio			

Cable Types	Conductor Colors	Jacket Colors
Video Minimax SDI	--	Yellow
Audio Pair 1	1. Black, 2. Red	White
Audio Pair 2	1. Black, 2. Red	Red



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Composite Video Accessories

Pro-Audio/Video and Digital Video Cable Assemblies:

75 Ohm BNC to 75 Ohm BNC

Digital Video MiniMax Non-Plenum		
Catalog No.	Length	Jacket Colors
CN7BHD825**3	3 Foot	**- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH
CN7BHD825**6	6 Foot	
CN7BHD825**10	10 Foot	
CN7BHD825**15	15 Foot	
CN7BHD825**20	20 Foot	
CN7BHD825**25	25 Foot	

Digital Video MiniMax Plenum		
Catalog No.	Length	Jacket Colors
CN-HD25825**-3	3 Foot	**- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH
CN-HD25825**-6	6 Foot	
CN-HD25825**-10	10 Foot	
CN-HD25825**-15	15 Foot	
CN-HD25825**-20	20 Foot	
CN-HD25825**-25	25 Foot	

Digital Video RG59/U Non-Plenum		
Catalog No.	Length	Jacket Colors
CN-7B819**-3	3 Foot	**- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH
CN-7B819**-6	6 Foot	
CN-7B819**-10	10 Foot	
CN-7B819**-15	15 Foot	
CN-7B819**-20	20 Foot	
CN-7B819**-25	25 Foot	

Economy AV DUBBING Cables	
Catalog No.	Description
CN-ERCA-AVxx	3 RCA- 3 RCA AV Replace xx with: 3,6,12 feet

AV RCA Dubbing Plenum	
Catalog No.	Description
CNLS25AVRCAxx	1 Coax + 2- Twisted Pair Plenum Replace xx with: 15,25,50,75,100 feet

Pro-Audio/Video and Digital Video Cable Assemblies:

RCA to RCA

Digital Video MiniMax Non-Plenum		
Catalog No.	Length	Jacket Colors
CNHD825**RCA3	3 Foot	**- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH
CNHD825**RCA6	6 Foot	
CNHD825**RCA10	10 Foot	
CNHD825**RCA15	15 Foot	
CNHD825**RCA20	20 Foot	
CNHD825**RCA25	25 Foot	

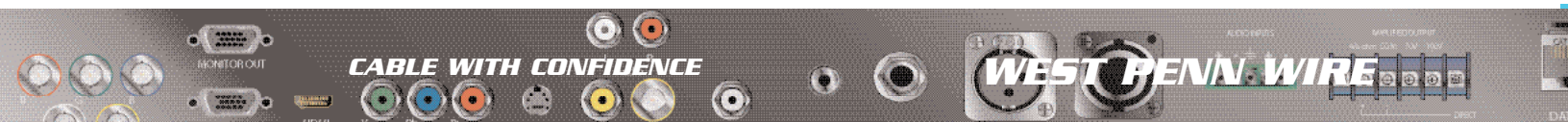
Digital Video MiniMax Plenum		
Catalog No.	Length	Jacket Colors
CNHD25825**R3	3 Foot	**- Jacket Colors Black-BK, Blue-BL, Red-RD, Yellow-YE, Green-GN, White-WH
CNHD25825**R6	6 Foot	
CNHD25825**R10	10 Foot	
CNHD25825**R15	15 Foot	
CNHD25825**R20	20 Foot	
CNHD25825**R25	25 Foot	



Pro-Audio/Video Dubbing Cable & Component Video Assemblies: 3 RCA to 3 RCA



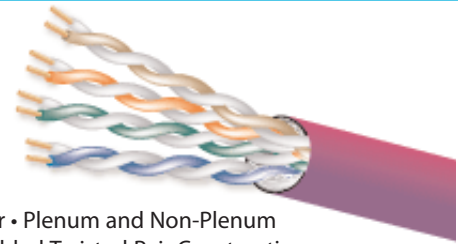
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NanoSkew UTP Video Cables

Digital Signage Video Cable

4 Pair 24 AWG UTP- NanoSkew WPW Cable



Applications:

Indoor for:

- UTP Based Video
- RGB over UTP
- Non-Plenum Versions for use in vertical run in a shaft and for general purpose communications use in accordance with Article 800 of the NEC
- Plenum Version for use in air handling ducts and spaces in accordance with Article 800 of the NEC


Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions • 4 Pair Unshielded Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance	Jacket Color
M58813	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic	None UTP	PVC	.190	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Maroon
M58814	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum	None UTP	Thermo-Plastic	.185	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Maroon
 M58854	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum	None UTP	Thermo-Plastic	.250	CM	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Maroon

Indoor/Outdoor

Digital Signage - NanoSkew Accessories: 106

Physical Characteristics	
Cable Weight	PL- 23 lbs/1000ft NPL- 20 lbs/1000ft
Bend Radius	1" Min (4 x Cable O.D.)
Nom. Vel. of Prop.	PL- 72% NPL - 68%
Pulling Tension	25 lbf Max.

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown
JACKET: Maroon		

Notes:

West Penn Wire's low skew video twisted pair cable is a proven cost-effective alternative to coax for RGB video applications. This cable was developed in response to the increasing digital signage applications for marketing and advertising. Low skew cable supports longer cable runs than currently available with coax or data cables, has a smaller outside diameter than coax, and can be hidden via plenums or in walls. Made with 24 AWG solid copper cable, it is listed by Underwriters Laboratories as either plenum (CMP) or riser (CMR) applications

NanoSkew VGA Extenders

Digital Signage Products

VGA over NanoSkew West Penn Cable



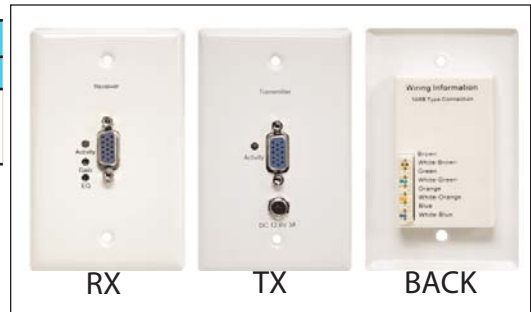
VGA Extender over NanoSkew Cables	
Catalog No.	Description
CN-R02EXT-C5E	VGA UTP Extender - Box Style 1000ft. over NanoSkew WPW Cables (TX & RX Included) 500ft over Cat5E



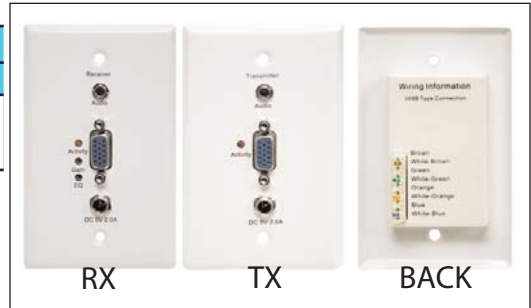
VGA + Audio Extender over NanoSkew Cables	
Catalog No.	Description
CN-R02EXT-C5E35	VGA + Audio UTP Extender - Box Style 1000ft. over NanoSkew WPW Cables (TX & RX Included) 500ft over Cat5E



VGA Extender over NanoSkew Cables - Wall Plate	
Catalog No.	Description
CN-R02EXT-FP	VGA UTP Extender - Wall Plate 1000ft. over NanoSkew WPW Cables (TX & RX Included) 500ft over Cat5E



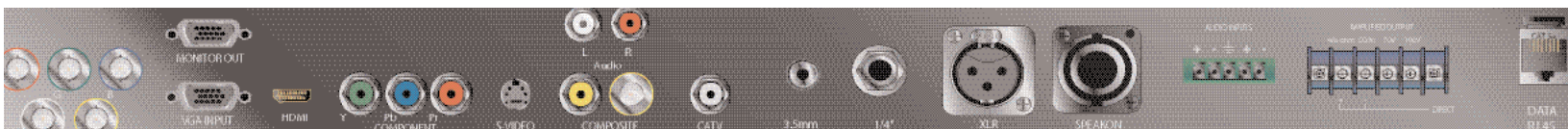
VGA + Audio Extender over NanoSkew Cables - Wall Plate	
Catalog No.	Description
CN-R02EXT-35FP	VGA + Audio UTP Extender - Wall Plate 1000ft. over NanoSkew WPW Cables (TX & RX Included) 500ft over Cat5E



VGA Splitter	
Catalog No.	Description
CN-R02SPL-102	2 Port VGA Splitter - Simultaneously display 1 VGA in, 2 VGA out 500ft over Cat5E



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HDMI- High Definition Multimedia Interface

HDMI - can transmit Digital Video and Audio signals from a AV source to the output device.

Signal separation: Multiple Conductor Cable

Applications: Connection for HDTV, Digital Audio, and IR Communication between AV equipment

Also known as: 1.3a, 1.4 (HDCP) Compatible

Connections: HDMI Connection

Cable Design:

Multiple conductor cable design

Assemblies and extenders available

Connectors: HDMI

Multipin - Single or Dual link communication

HDMI

Cable Assemblies and Accessories

HDMI to HDMI with Repeaters		
Catalog No.	Description	Length (Meters)
CN-HDMI-XLR-xxm	HDMI to HDMI	Replace xx with: 15,20,30

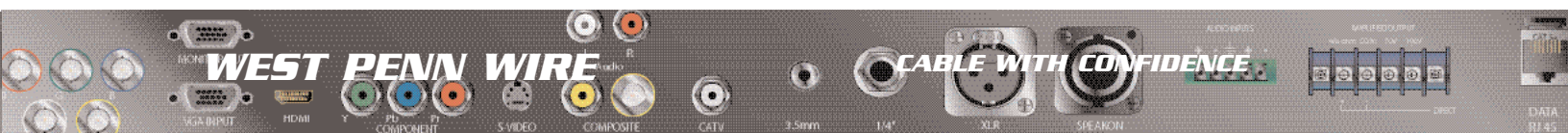
HDMI to HDMI		
Catalog No.	Description	Length (Meters)
CN-HDMI-UL-xxm	HDMI to HDMI	Replace xx with: 2,3,6,8,10,12,15,20
CN-40HDMI-xx	1.4 HDMI to HDMI	Replace xx with: Feet 3, 6,10, 15,25, 50 ft.

1.3 HDMI Passive - Over Cat5E/6 up to 50ft. 1080/60p		
Catalog No.	Description	
CN-R01EXT-HSS	HDMI 1.3 TX and RX - RJ45 to HDMI Pigtail Not HDCP compliant	

HDMI Extender - Over Cat5E/6 - Wall Plates		
Catalog No.	Description	
CN-R01EXTC5E-FP	HDMI Extender Wall Plate	

1.3 HDMI Active - Over Cat5E/6 up to 150ft. 1080/60p		
Catalog No.	Description	
CN-R01EXT-HSL	HDMI 1.3b and HDCP - TX and RX - RJ45 to HDMI (2.1"Dx1.5"Wx1"H)	

HDMI Extender Pigtail - Male to Female		
Catalog No.	Description	
CN-EQL-MF-1	HDMI Extender Cable (M to F) 1ft. Pigtail	

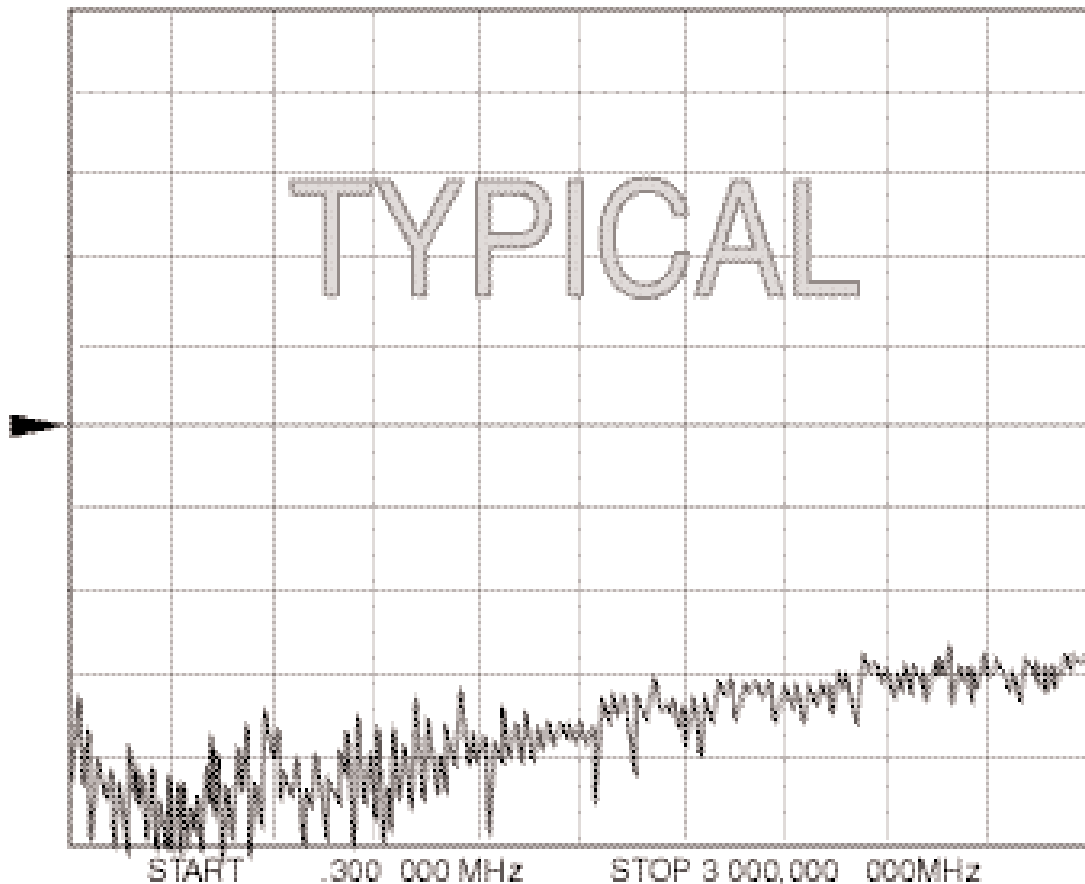


Technical Reference

Cable SRL - Structural Return loss:

DIGITAL COAXIAL CABLE DESIGN

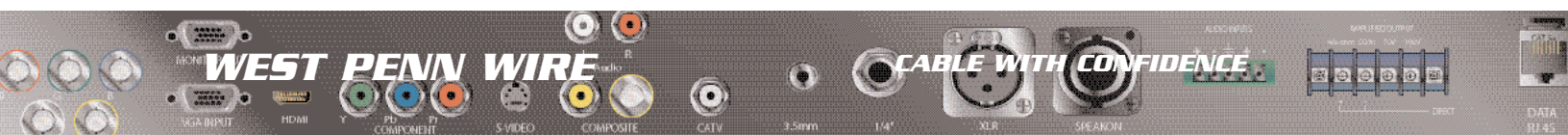
The SMPTE recommendation for return loss is -15 dB (5- 1500 MHz. West Penn Wire strives to meet a higher manufacturing standard at -23 dB (5-850 MHz), and -21dB (851- 3000 MHz). As seen on the actual test results for part no. 6350, West Penn Wire/ CDT exceed both SMPTE and West Penn Wire/CDT limits and specifications.



Typical test results for West Penn Wire part no. [6350](#)

West Penn Wire Part No. 6350 is a SDI coaxial cable. West Penn Wire Part No. WP6355 Super High Resolution RGB cable consists of 5 - 6350 coaxial cables

West Penn Wire strives to achieve -30dB through out the 3 Ghz. sweep. And in some cases 4.5 Ghz.

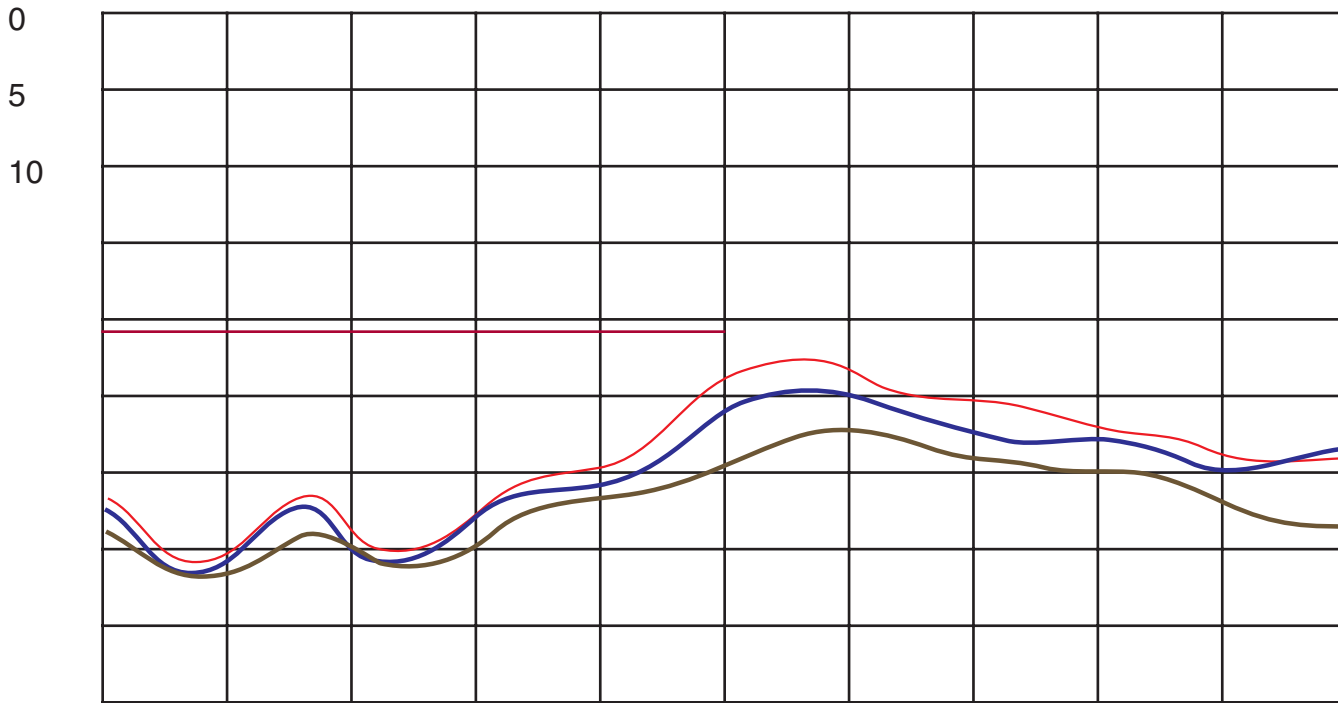


Technical Reference

BNC Connector Comparison

Crimp vs. Compression vs. 360° Compression

The SMPTE recommendation for return loss is -21dB up to 1 Ghz



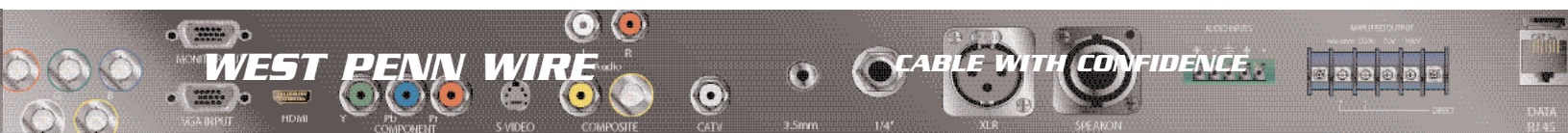
Crimp 75 Ohm BNC —
Compression 75 Ohm BNC —
Double Bubble 75 Ohm BNC —

SPECIFICATIONS- CN-BNCP-RGB

- 75 OHM• DC-1GHz >23dB loss- < 1.16 VSWR
- DC-2GHz >20dB loss- < 1.20 VSWR
- DC-3GHz >20dB loss- < 1.20 VSWR
- Cable Pull out force: 50in/lbs
- Body Material: Brass
- Body Material (Plating): Nickel
- Center Contact: Brass• Center Contact (Plating): Gold

SPECIFICATIONS- CN-DB1BNCHD

- 75 OHM• DC-1GHz >35dB loss- < 1.04 VSWR
- DC-2GHz >29dB loss- < 1.07 VSWR
- DC-3GHz >32dB loss- < 1.07 VSWR
- Cable Pull out force: 50in/lbs
- Body Material: Brass• Body Material (Plating): Nickel
- Center Contact: Brass• Center Contact (Plating): Gold



Technical Reference

Cable Distances:

Maximum Recommended RGBHV video distance (without using an interface or line driver)

	VGA 640x480			SVGA 800x600			XGA 1024x768			SXGA 1280x1024			UXGA 1600x1200		
H Refsh	60Hz	75Hz	85Hz	60Hz	75Hz	85Hz	60Hz	75Hz	85Hz	60Hz	75Hz	85Hz	60Hz	75Hz	85Hz
V Refsh	31.25KHz	39KHz	45KHz	38KHz	50KHz	54KHz	48KHz	50KHz	68KHz	64KHz	80KHz	91KHz	75KHz	94KHz	107KHz
P.N.	Recommended Distance (ft.) based on 3rd harmonic @ -3dB														
26Awg	85	69	59	57	45	37	35	27	25	20	15	13	13	10	9
25Awg	125	111	92	89	68	55	50	39	35	29	21	18	18	13	11
20Awg	310	250	215	205	160	136	121	95	83	72	56	50	48	38	33
18Awg	560	453	390	370	288	248	220	172	150	130	101	88	87	68	60
P.N.	Recommended Distance (ft.) based on 3rd harmonic @ -6dB														
26Awg	328	265	228	216	168	145	129	100	87	75	60	52	51	40	35
25Awg	470	380	327	302	240	208	185	143	125	108	85	74	74	57	50
20Awg	1120	903	778	737	571	491	438	341	299	257	201	176	175	136	120
18Awg	1800	1452	1250	1184	918	790	705	550	480	415	325	285	280	218	192

Analog Based Video Applications

	Composite	SVHS	Y,Pb,Pr
Freq.	5.5Mhz	10Mhz	10Mhz
26Awg	217	158	158
25Awg	252	188	188
MiniMax	300	217	217
20Awg	450	335	335
18Awg	562	417	417
14Awg	827	613	613
SVHS 25g		188	

dB Losses:

-3dB

Serial Digital (SDI) Applications

	259MA	259MB	259MC	259MD	334M	292M	292M
Freq	71.5	88.5	135	270	360	750	1.5Ghz
25Awg	769	705	578	510	360	145	100
20Awg	1430	1360	1110	970	790	310	220
18Awg	1880	1710	1430	1240	1010	400	270
14Awg	2730	2330	1670	1480	1200	470	330

dB Losses:

-30dB - 259MA, 259MB, 259MC, 259MD, 334M

-20dB - 292M

