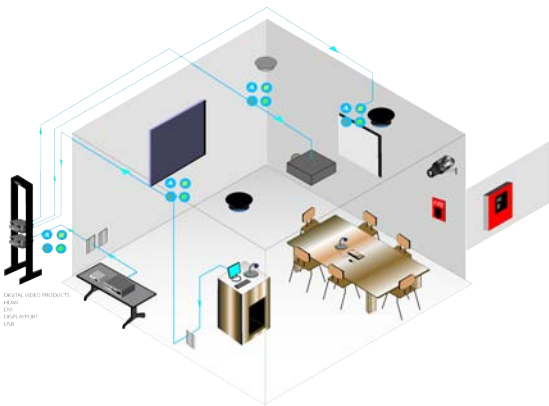


# DIGITAL VIDEO PRODUCTS



- A** **SDI or HD-SDI: Serial Digital Interface:** Set of video standards defined by the SMPTE. SDI is for serial transmission of video and audio over standard RG59/ or RG6/U.  
Connector: 75 Ω BNC
- B** **HDMI: High Definition Multimedia Interface:** The signalling process TMDS (Transition-Minimized Differential Signalling) creates three channels digital (RGB). Other signals carry digital audio over the same link.  
Connector: 19 pin - Various Style and dimensions
- C** **DVI: Digital Visual Interface:** Uses the same process of video signalling as HDMI. DVI does not carry digital video over the same link.  
DVI-A - Analog DVI-I - Analog and Digital DVI-D - Digital
- D** **DisplayPort:** A royalty free digital Interface. This is a lower cost alternative to HDMI. This format carries digital video as well as digital audio.  
Connector: 20 pin - Similar to a HDMI Type A and C



**WEST PENN WIRE**

**800-245-4964**

**[www.westpenn-wpw.com](http://www.westpenn-wpw.com)**

**A**

## PRODUCT INDEX:

HD-SDI BULK CABLES.....	1
SDI ELECTRICAL SPECIFICATIONS .....	2
HIGH DEFINITION 75Ω BNC.....	3
HD-SDI ASSEMBLIES.....	3

# HD-SDI CABLES



## Applications:

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

## Broadcast Video Cable Pro-Video/ Serial Digital SDI

Standard spool 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
					Connector Type 75Ω 3 Pc. Crimp BNC 75Ω Compression BNC	Connectors CN-BM74-18 CN-DB15BNCHD	Strip Tool TL-KLEIN or TL-825 TL-CSST	Crimp/Comp Tool TL-105 TL-CPLRBC		
HD25825	CMP	25 AWG (Solid) BC 30Ω/M'	Foam FEP .078	Bifoil 100% Tinned Copper Braid 95%	Flex Plenum	.146	16.2 pf/ft	82%	75Ω	Black
					Connector Type 75Ω 3 Pc. Crimp BNC 75Ω Compression BNC	Connectors CN-BM74-18 CN-DB15BNCHD	Strip Tool TL-KLEIN or TL-825 TL-CSST	Crimp/Comp Tool TL-105 TL-CPLRBC		
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	Black
					Connector Type 75Ω 3 Pc. BNC 75Ω Compression BNC	Connectors CN-BM74-32 CN-DB59BNCHD	Strip Tool TL-7503 TL-CSST	Crimp/Comp Tool TL-104 TL-CPLRBC		
25819	CMP	20 AWG (Solid) BC 10Ω/M'	Foam FEP .135	Bifoil 100% Tinned Copper Braid 95%	Flex Plenum	.200	16.2 pf/ft	84%	75Ω	Ivory
					Connector Type 75Ω 3 Pc. Crimp BNC 75Ω Compression BNC	Connectors CN-BM74-32 CN-BNC59MCV	Strip Tool TL-7503 TL-CSST	Crimp/Comp Tool TL-104 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	Black
					Connector Type 75Ω 3 Pc. Crimp BNC 75Ω Compression BNC	Connectors CN-BM73-5 CN-DB6BNCHD	Strip Tool TL-7503 TL-CSST	Crimp/Comp Tool TL-107 TL-CPLRBC		
256350	CMP	18 AWG (Solid) BC 6.4Ω/M'	Foam FEP .170	Bifoil 100% Tinned Copper Braid 95%	Flex Plenum	.236	16.2 pf/ft	84%	75Ω	Ivory
					Connector Type 75Ω 3 Pc. Crimp BNC 75Ω Compression BNC	Connectors CN-BM73-4 CN-BNC6MCV	Strip Tool TL-7503 TL-CSST	Crimp/Comp Tool TL-107 TL-SNSA		

## 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

# HD-SDI SPECIFICATIONS

## Broadcast Video Cable 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	4.5 GHz
HD825	>23dB >21dB	.48	.98	1.73	3.51	4.69	6.51	7.72	9.3	10.88	13.34	18.92	22.16	--
HD25825	>23dB >21dB	.48	.99	1.75	3.54	4.73	6.57	7.79	9.38	10.98	13.46	19.28	22.80	--
819	>23dB >21dB	.28	.44	.66	1.93	2.62	3.79	4.3	5.31	6.23	7.49	11.19	13.23	16.40
25819	>23dB >21dB	.28	.48	1.03	2.20	2.83	4.55	5.24	6.12	7.29	9.40	17.48	21.60	--
6350	>23dB >21dB	.23	.36	.5	1.47	1.93	2.85	3.22	3.93	4.65	5.52	8.75	10.45	13.30
256350	>23dB >21dB	.24	.45	.75	1.77	2.45	3.30	4.0	5.10	5.90	7.30	11.59	13.71	--
P806	>23dB	.25	.52	.8	2.2	3.0	4.3	5.2	6.3	7.4	9.2	--	--	--

## SDI TRANSMISSION DISTANCES- Non-Plenum

Data Rate	143Mb/s	177Mb/s	270Mb/s	360Mb/s	540Mb/s	1.5Gb/s	3.0Gb/s
SPEC	SMPTE 259M	ITU-R BT.601	SMPTE 259M	SMPTE 259M	SMPTE 344M	SMPTE 292M	SMPTE 292M
Application	Composite NTSC	Composite PAL	Component Video	Component Widescreen	Component Widescreen	HDTV	Progressive Scan HDTV
Part No.							
<b>HD825</b>	<b>769</b>	<b>705</b>	<b>578</b>	<b>510</b>	<b>360</b>	<b>145</b>	<b>100</b>
<b>819 *</b>	<b>1430</b>	<b>1360</b>	<b>1110</b>	<b>970</b>	<b>790</b>	<b>310</b>	<b>220</b>
<b>6350 **</b>	<b>1880</b>	<b>1710</b>	<b>1430</b>	<b>1240</b>	<b>1010</b>	<b>400</b>	<b>270</b>

Measurements are in ft.

SDI standards are designed to operate where the signal loss at 1/2 the clock frequency does not exceed the approximate loss value listed below.

The maximum length values shown are based on typical attenuation values for the cables listed and the following criteria:

Max. length = 30 dB loss at 1/2 the clock frequency: SMPTE 259M, PAL, Widescreen

Max. length = 20 dB loss at 1/2 the clock frequency: SMPTE 292M and SMPTE 424M

\* Includes Cables that use 819- WP8195

\*\* Includes Cables that use 6350- WP6355

# HD-SDI ACCESSORIES

## Video Connectors

### 75 Ohm BNC Compression Style-Double Bubble- High Definition



BNC Style Compression- 360 Double Bubble	
Catalog No.	Description
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

## 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
CN7BHD825BK3	3 Foot	Black
CN7BHD825BK6	6 Foot	
CN7BHD825BK10	10 Foot	
CN7BHD825BK15	15 Foot	
CN7BHD825BK20	20 Foot	
CN7BHD825BK25	25 Foot	

Digital Video MiniMax Plenum		
Catalog No.	Length	Jacket Colors
CNHD25825BK-3	3 Foot	Black
CNHD25825BK-6	6 Foot	
CNHD25825BK-10	10 Foot	
CNHD25825BK-15	15 Foot	
CNHD25825BK-20	20 Foot	
CNHD25825BK-25	25 Foot	

Digital Video RG59/U Non-Plenum		
Catalog No.	Length	Jacket Colors
CN-7B819BK-3	3 Foot	Black
CN-7B819BK-6	6 Foot	
CN-7B819BK-10	10 Foot	
CN-7B819BK-15	15 Foot	
CN-7B819BK-20	20 Foot	
CN-7B819BK-25	25 Foot	



# HD-SDI ACCESSORIES

## Video Patch Panels

### BNC

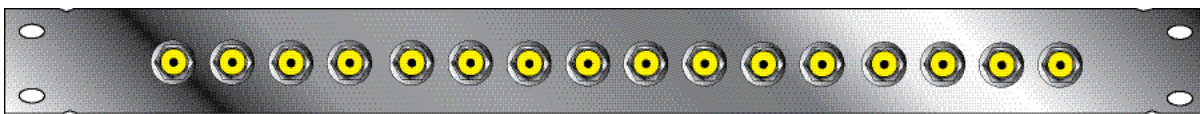
BNC Rack Mount Patch Panels	
CN-BNCIL-16	16 Port BNC Isolated Loaded (19" - 1.720"H)
CN-BNCIL-32	32 Port BNC Isolated Loaded (19" - 3.470"H)
CN-BNCIL-48	48 Port BNC Isolated Loaded (19" - 3.470"H)



## Video Patch Panels

### RCA

RCA Rack Mount Patch Panels	
CN-RCAIL-16	16 Port BNC Isolated Loaded (19" - 1.720"H) 1 RU
CN-RCAIL-32	32 Port BNC Isolated Loaded (19" - 3.470"H) 2 RU
CN-RCAIL-48	48 Port BNC Isolated Loaded (19" - 3.470"H) 2 RU



## Distribution Rack- Steel Knockdown 2 Post

Catalog#	DESCRIPTION	Height	Weight	Mounting
XDR-4819	48" Distribution Rack- Tapped front Rails	48"	34lbs.	19"
XDR-7219	72" Distribution Rack - Tapped front Rails	72"	43lbs.	19"
XDR-8419	84" Distribution Rack - Tapped front Rails	84"	50lbs.	19"
XDR-8419-310	84" Distribution Rack- #10-32 tapped- 3 Channel w/angle base	84"	63lbs.	19"
XDR-8423-310	84" Distribution Rack- #10-32 tapped- 3 Channel w/angle base	84"	70lbs.	23"
XDR-8419-312	84" Distribution Rack- #12-24 tapped- 3 Channel w/angle base	84"	63lbs.	19"
XDR-8423-312	84" Distribution Rack- #12-24 tapped- 3 Channel w/angle base	84"	70lbs.	23"