



VIDEO & SOUND PROFESSIONAL BROADCAST

- Cables Audio & Vídeo • Conexiones • Conectores
- Accesorios • Soporte Técnico
- Equipos Comunicaciones por Fibra Óptica • Calidad Broadcast

VK 5378
0388

DIGITAL COAXIAL VIDEO MULTICORE RGBHV

Aplicaciones / Application



Cable video analógico/ digital para aplicaciones de vídeo. Superflexible. Formato de video RGBHV ,Alta calidad. Compuesto de 5 cables VK 6/0.8.



Analog/ Digital video cable for applications of video. Superflexible. High quality. RGBHV video format, It's composed of 5 VK6/0.8's cables.

Construcción / Construction

COMPOSICION/COMPOSITION:

1. 5 Cables VK 6/0.8:

1.1 Conductor

Cu Ø 0,8mm (AWG 20)
UNE 21-011

1.2 Aislante / Insulation

Foam High Density FHDPE (GAS INJECTED)
Ø 3,7 mm
IEC 708

1.3 Pantallas / Shields (3 pantallas/ 3shields):

1.3.1 Primera Pantalla /First Shield

100 % Al/ PET/Al PE H199

1.3.2 Segunda Pantalla /Second Shield

95 % CuSn UNE 21-064

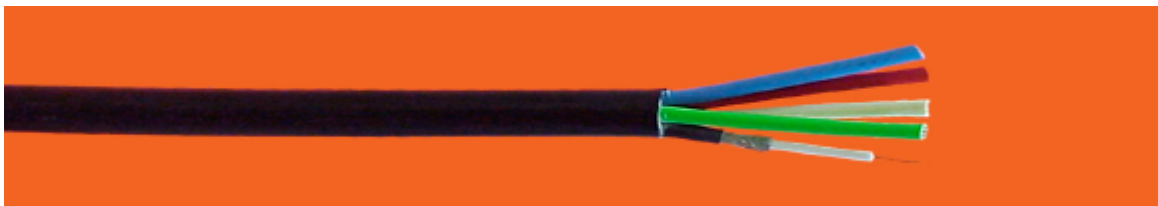
1.4 Cubierta externa / General Jacket

Ø 6,00
PTC UNE 21-031

Conectores recomendados / Suggested connectors: 5031-V

2. Cubierta General/General Jacket:

Ø 18,6 mm
PTC UNE 21-031



Peso/Weight (Kg / Km) : 375

Colors: Black

REVISION DATE: 22-06-2006

Las especificaciones están sujetas a cambio sin previo aviso

Specifications subject to change without prior notice

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Datos Técnicos / Data Sheet

Propiedades Eléctricas / Electrical Properties

Velocidad de Propagación/Velocity of propagation	%	81,9				
Retraso Nominal/Nominal Delay	ns/m	4,05				
Impedancia Nominal / Nominal Impedance	W	75 ± 1 W				
Capacidad Nominal / Nominal Capacitance	PF/m	54,043				
Máxima tensión de trabajo/Max. Operation Voltage	V	300				
Inductancia Nominal/Nominal inductance	µH/m	0,305				
Resistencia núcleo en DC/ Conductor DC resistance	W/Km	33,81				
Resistencia malla en DC/Shield DC resistance	W/Km	13,71				
ATENUACION/ATTENUATION:	Freq (Mhz)	dB/100m				
	1,003	- 0,931				
	5,430	- 2,023				
	24,886	- 4,351				
	81,242	- 7,210				
	120,288	- 8,559				
	163,896	- 9,861				
	211,261	- 11,172				
	270,032	- 12,673				
	540,028	- 18,309				
	720,50	- 21,428				
	1000	- 25,483				
	2000	- 36,584				
	3000	- 41,344				
Minimum STRUCTURAL RETURN LOSS (SRL)	Sweep	dB				
	5Mhz – 300Mhz	-24,63				
	300 Mhz- 650 Mhz	-20,52				
	650Mhz – 1100Mhz	-15,11				
SMITH CHART (300Khz-270Mhz)						
Frequency (Mhz)	4,117	51,614	101,09	159,167	215,204	263,084
Ohms (O)	75,43	74,74	74,19	75,33	74,62	74,17

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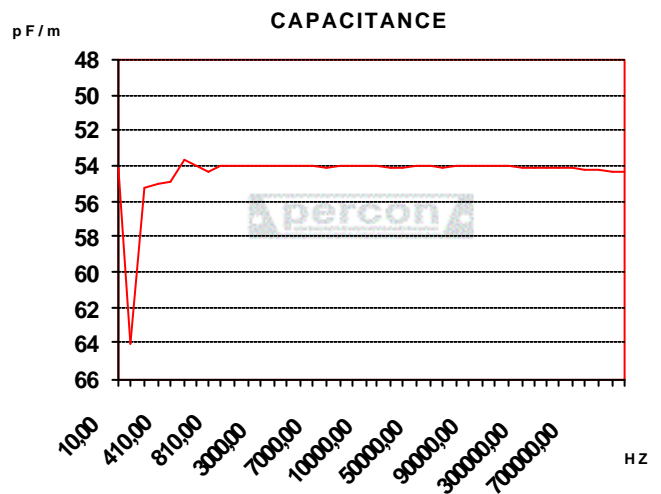
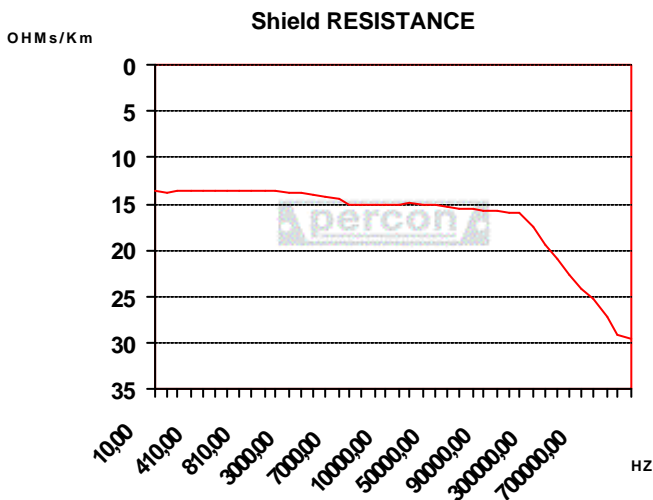
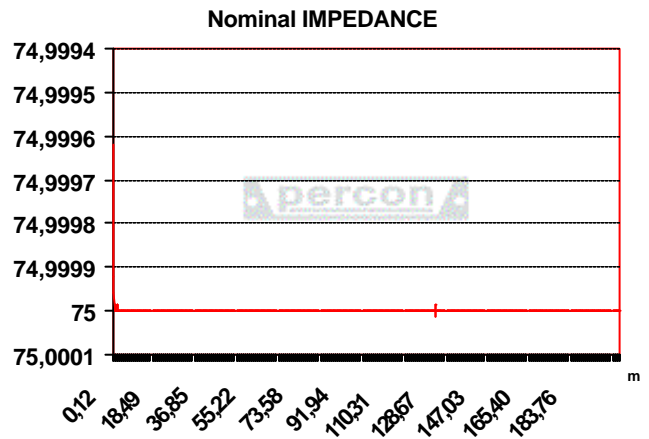
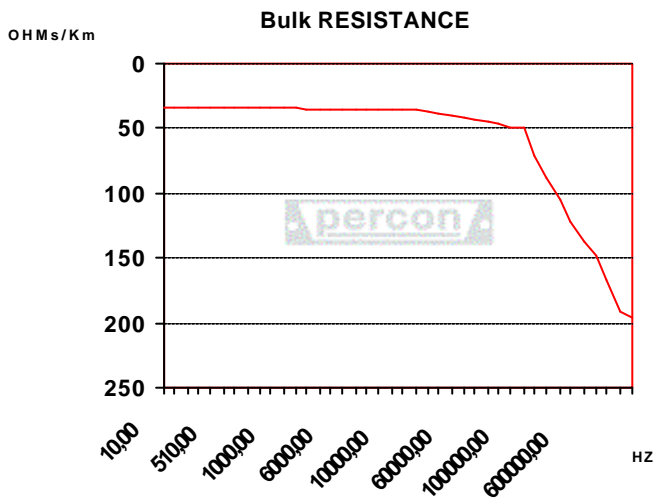
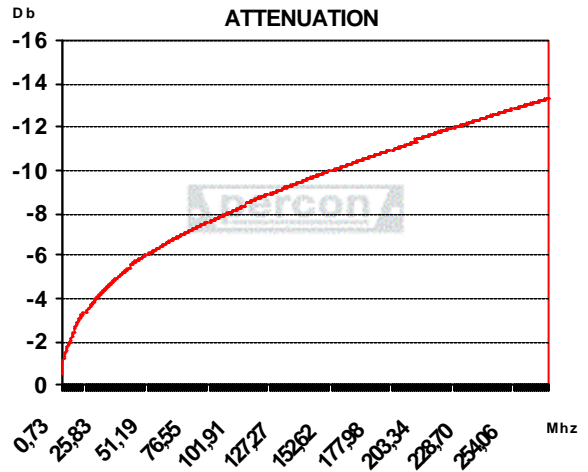
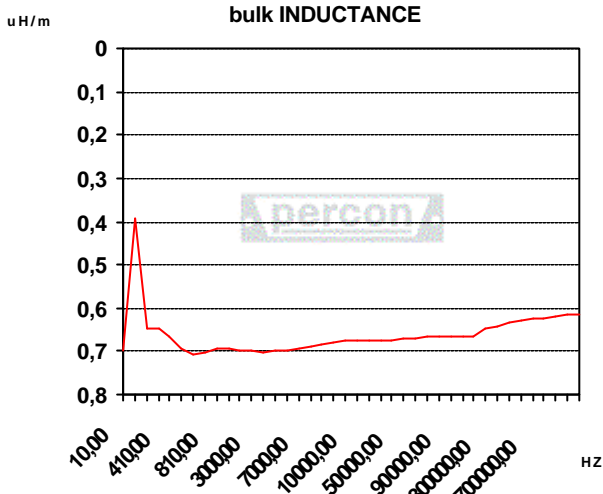


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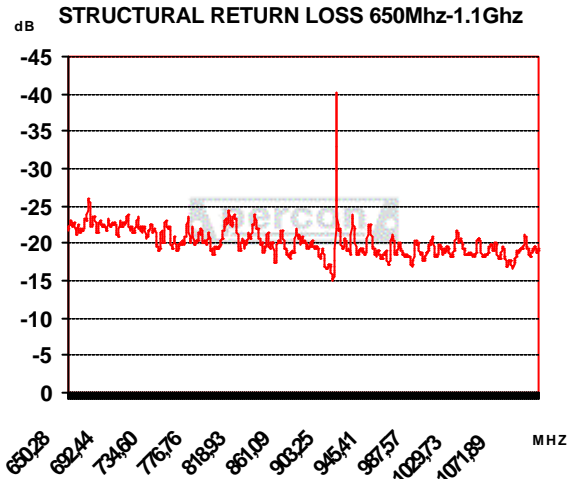
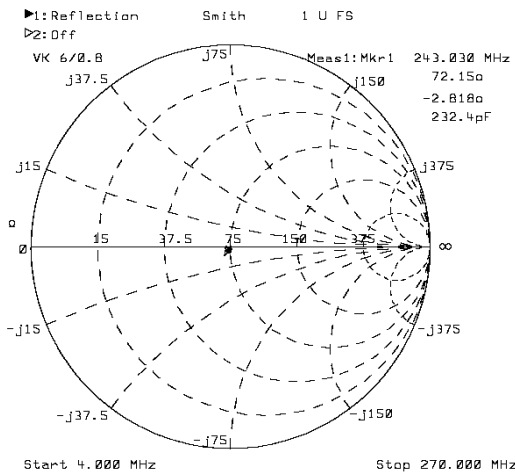
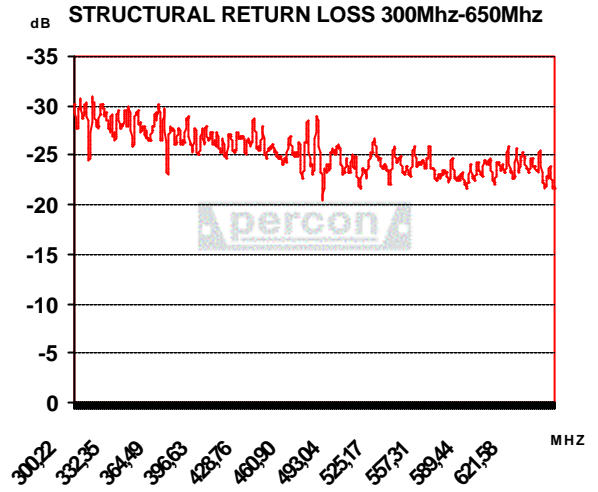
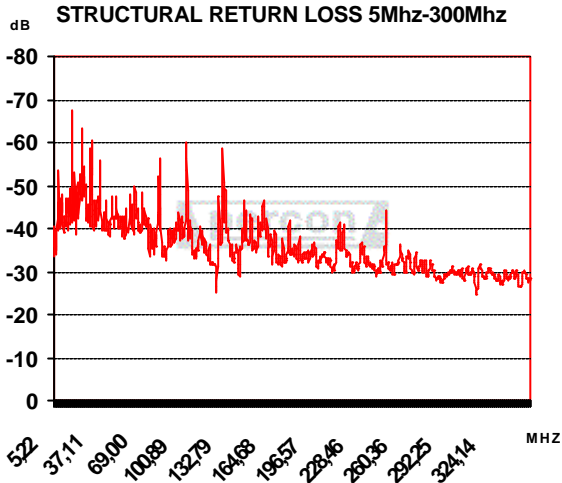


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Datos de aplicación / Application Data:

Formato video digital / Digital video format:

	MAXIMUM TRANSMISSION DISTANCE (meters) AT SERIAL DIGITAL DATA RATES (SDI)
71,5 Mhz/143 Mbps (SMPTE 259M, Composite NTSC)	438,589
88,5 Mhz /177 Mbps (ITU-R BT. 601, Composite PAL)	400,10
135 Mhz/270 Mbps (SMPTE 259M, Component video)	330,50
180 Mhz/360 Mbps (SMPTE 259M, widescreen)	288,57
270 Mhz/540 Mbps (SMPTE 344M, widescreen)	235,38
750 Mhz/1.5 Gbps (SMPTE 292M, HDTV)	99,17
750 Mhz/1.5 Gbps (SMPTE 292M, HDTV) con etapa equalizadora / with equalizer stage.	130

**WE SUGGEST TO USE ONLY 85% OF THE RECOMMENDED DISTANCE*

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Formato video analógico / Analogue video format:

	TRANSMISSION DISTANCE IN METERS OF ANALOGUE VIDEO SIGNAL WITH MINIMUM LOSSES (MAX -3 dB)
M-II (COMPONENT 5,0 Mhz BW)	157,06
EBU-C (COMPOSITE 5,5 Mhz BW)	150,01
BETACAM SP (COMPONENT 4,5 Mhz BW)	165,74
U-MATIC SP (COMPOSITE 4 Mhz BW)	174,52
S-VHS (COMPOSITE 5,0 Mhz BW)	157,06
ANALOG COMPONENT/RGB (5,0 Mhz BW)	157,06

*DISTANCE BASED UPON THE LIMIT FREQUENCY OF 5,5 Mhz, 5 Mhz, 4,5 Mhz AND 4 Mhz.

Audio Formato digital / Digital Audio format (SMPTE 276M- unbalanced audio):

	MAXIMUM TRANSMISSION DISTANCE (meters) AT SERIAL DIGITAL AUDIO DATA RATES (AES3-1992)
DSR (Sampling Rate 32Khz/BW 4,096 Mhz)	1081
CD/DVD (Sampling Rate 44,1 Khz/BW 5,6448 Mhz)	926
DAT (Sampling Rate 48 Khz/BW 6,144 Mhz)	874
DVD (Sampling Rate 96 Khz/BW 12,228 Mhz)	612
DVD (Sampling Rate 192 Khz/BW 24,576 Mhz)	446

[Pruebas de HDTV a 130 metros de VK 5378/](#)
[130 meters of VK 5378 under HDTV transmission:](#)

RATE NAME	BIT RATE	H FREQ / V FREQ
720 p 1280 x 720	1.485/1.001 (1.4835) Gbps	44.96Khz / 59.94Hz
720 p 1280 x 720	1.4850 Gbps	45.00Khz / 60.00Hz
1080i 1920 x 1080	1.4850/1.001 (1.4835) Gbps	33.72Khz / 29.97Hz
1080i 1920 x 1080	1.4850 Gbps	33.75Khz / 30.00Hz
1080p 1920 x 1080	1.4850 Gbps	33.75Khz / 30.00Hz
1080p 1920 x 1080	1.4850/1.001 (1.4835) Gbps	33.72Khz / 29.97Hz
1080p 1920 x 1080	1.4850 Gbps	27.00Khz / 24.00Hz
1080p(sf) 1920 x 1080	1.4850 Gbps	27.00Khz / 24.00Hz
1080p(sf) 1920 x 1080	1.4850/1.001 (1.4835) Gbps	26.97Khz / 23.98Hz

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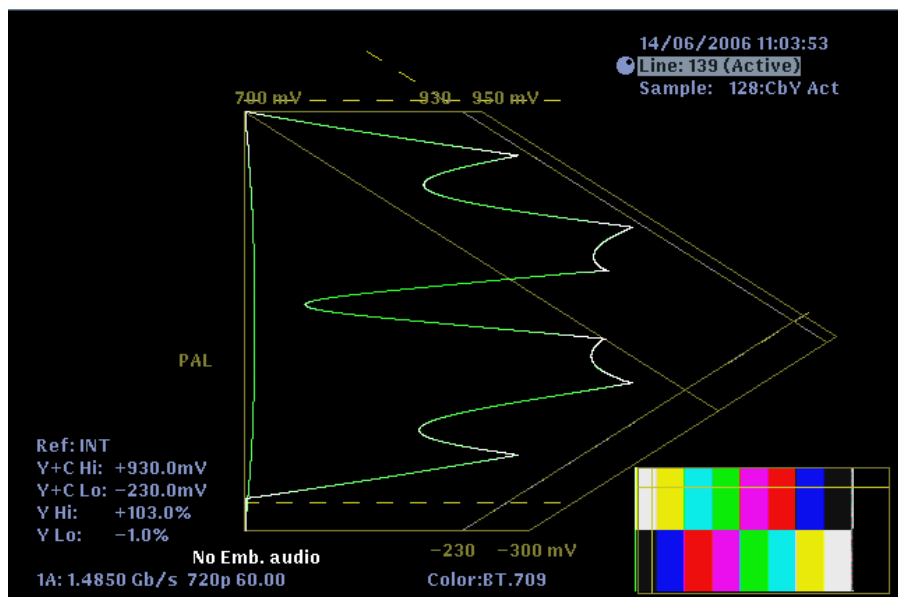
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Se utiliza un generador de señal de video de alta definición EXTRON VTG400D con una tensión de salida de pico a pico de 800 milivoltios ,una velocidad de datos de 1485Mbps o 1485/1001 Mbps, un jitter timing no superior a 1 UI (673 picosegundos) y un jitter alignment no superior a 0,2 UI (134,6 picosegundos) / We use an EXTRON VTG400D high definition video signal generator with an output peak-to-peak voltage of 800 millivolts, a data speed of 1485Mbps or 1485/1001 Mbps, a jitter timing under 1 UI (673 picoseconds) and a jitter alignment under 0,2 UI (134,6 picoseconds).

El receptor es un WFM700M de Tektronix / The receiver is WFM700M Tektronix

Video Status		Video Session – Running	
Input:	1A (WFM7M)	SMPTE 292 CRC:	
Changed since reset:	No	Y Errored Seconds:	0
Signal:	1.4850 Gb/s	Y Errored Fields:	0
Format Exp:	Any Supported	Y % Errored Fields:	0.00%
Format Det:	720p 60.00	Y Status:	OK
Colorimetry:	BT.709 (AUTO)	C Errored Seconds:	0
Embedded Audio:	No Emb. audio	C Errored Fields:	0
Ancillary Data:	None	C % Errored Fields:	0.00%
Active Video Width:	10 bits	C Status:	OK
Timecode:	None	RGB Errored Seconds:	0
Selected Ref:	INT	RGB Errored Fields:	0
Ref Format:	N/A	RGB % Errored Fields:	0.00%
CC:	Missing	RGB Gamut Status:	OK
Y Stuck Bits:	-----	Y+C Errored Seconds:	0
C Stuck Bits:	-----	Y+C Errored Fields:	0
		Y+C % Errored Fields:	0.00%
Y Errored Lines:	0	Y+C Gamut Status:	OK
C Errored Lines:	0	Luma Errored Seconds:	0
		Luma Errored Fields:	0
Time since reset:	0:00:33:35	Luma % Errored Fields:	0.00%
		Luma Gamut Status:	OK

Errores en tx. de señal de video / Video session errors.



Gamut Arrowhead.

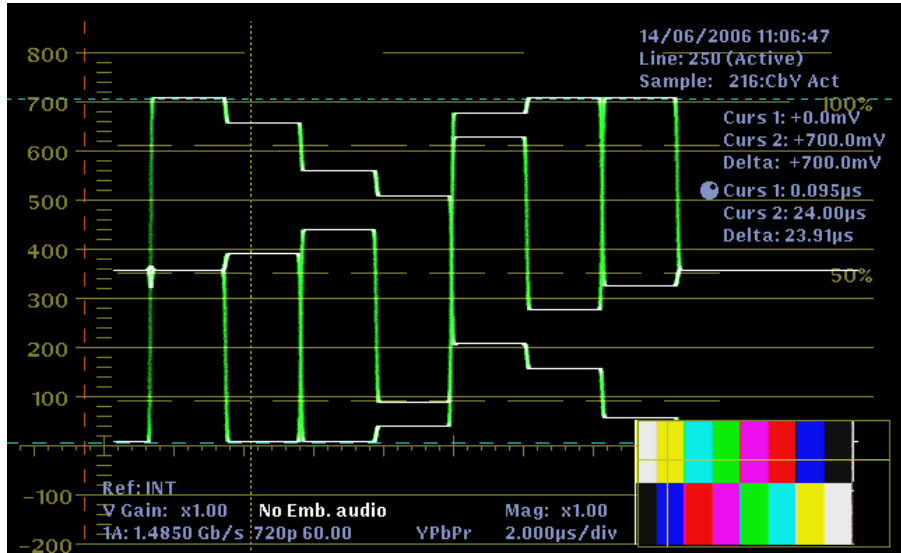


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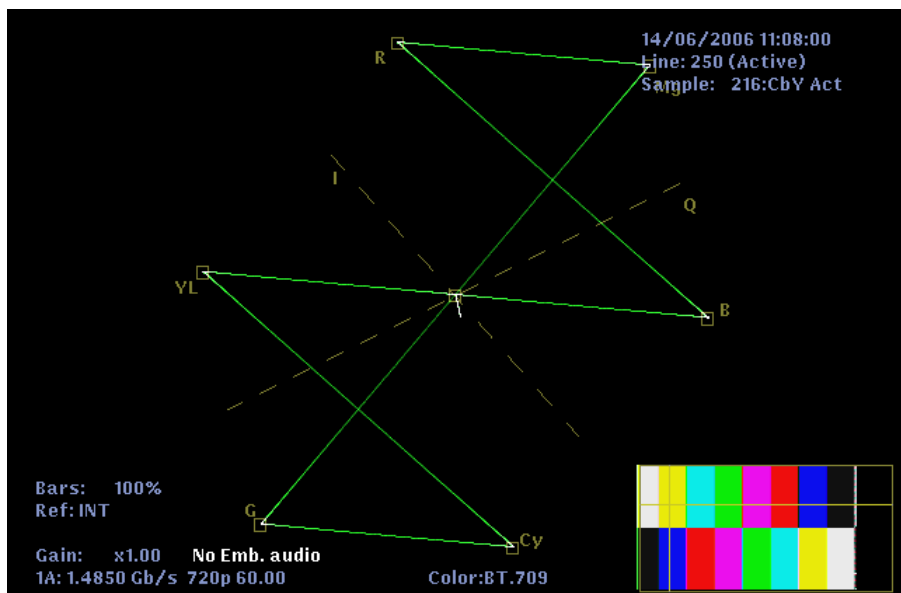
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For ma de onda / Waveform.



Vector.