



VIDEO & SOUND PROFESSIONAL BROADCAST

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

TVL 1030  
0462

DIGITAL COAXIAL VIDEO  
MULTICORE TVL CABLE

### Descripción/ Description



Cable a la carta. Cables especiales compuestos de video ( Analógico/ Digital ), Audio ( Twister/ Quad), potencia, UTP, etc.

The customer ask for a composition, and with an initial minimum order we can prepare it. Special cables composed of video ( Analog/ Digital), Audio (Twister/ Quad), Power, STP, etc.

### Construcción / Construction

#### COMPOSICION/COMPOSITION:

- 1 coaxial cable VK 73.
- 3 power cable 1,5 mm<sup>2</sup>.

#### 1. 1 coaxial cable VK 73:

##### 1. Conductor

CuSn 19X0.20 mm (AWG 18)  
UNE 21-064

##### 2. Aislante / Insulation

Foam High Density FHDPE (GAS INJECTED)  
Ø 4,3 mm  
IEC 708

##### 3. Pantallas / Shields ( 3 pantallas/ 3shields )

##### 3.1 Primera Pantalla /First shield

100 % Al/ PET/Al PE H199

##### 3.2 Segunda Pantalla /Second shield

Braided Cu 95 % UNE 21-064

##### 4. Cubierta externa / General Jacket

Ø 6,85 mm  
PTC UNE 21-031

#### 2. 3 power cable 1.5 mm<sup>2</sup>:

##### 1. Cada conductor/Each conductor (3 conductores /3 conductors ):

##### 1.1 Conductor

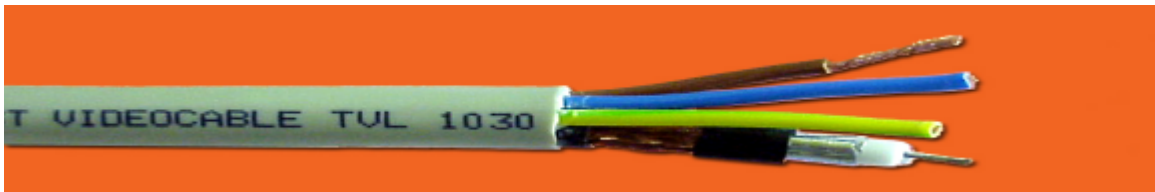
Cu  
28x 0,25 mm Ø (AWG 16)  
Section 1,50 mm<sup>2</sup>

##### 1.2 Aislante / Insulation

PTC UNE 21-031  
Ø 2,70 mm

#### 3. Cubierta General/General Jacket:

Ø 11,20 mm  
PTC UNE 21-031



☑ Peso/Weight ( Kg / Km ) : 160

☑ Colors: Black.

REVISION DATE: 20-10-2004

Las especificaciones están sujetas a cambio sin previo aviso

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**Datos Técnicos / Data Sheet**

**Propiedades Eléctricas / Electrical Properties**

**VIDEO CABLE VK 73 DATA:**

|   |                   |                |        |       |         |        |
|---|-------------------|----------------|--------|-------|---------|--------|
| Velocidad de Propagación/Velocity of propagation  | %                 | 81,3           |        |       |         |        |
| Retraso Nominal/Nominal Delay                     | ns/m              | 4,095          |        |       |         |        |
| Impedancia Nominal / Nominal Impedance            | W                 | 75±2,5 W       |        |       |         |        |
| Capacidad Nominal / Nominal Capacitance           | PF/m              | 54,5498        |        |       |         |        |
| Máxima tensión de trabajo/Max. Operation Voltage  | V                 | 300            |        |       |         |        |
| Inductancia nominal/ Nominal inductance           | µH/m              | 0,532237       |        |       |         |        |
| Resistencia núcleo en DC/ Conductor DC resistance | W/Km              | 27,7529        |        |       |         |        |
| Resistencia malla en DC/Shield DC resistance      | W/Km              | 5,77171        |        |       |         |        |
| <b>ATENUACION/ATTENUATION:</b>                    | <b>Freq (Mhz)</b> | <b>dB/100m</b> |        |       |         |        |
|   | 8,397             | -1,62          |        |       |         |        |
|   | 12,764            | -2,48          |        |       |         |        |
|   | 31,953            | -4,19          |        |       |         |        |
|   | 87,535            | -7,07          |        |       |         |        |
|   | 126,046           | -8,39          |        |       |         |        |
|   | 169,056           | -9,72          |        |       |         |        |
|   | 215,771           | -11,00         |        |       |         |        |
|   | 273,735           | -12,45         |        |       |         |        |
|   | 400               | - 15,03        |        |       |         |        |
|   | 650               | - 20,216       |        |       |         |        |
|   | 1000              | - 26,041       |        |       |         |        |
|   | 1500              | - 32,342       |        |       |         |        |
|   | 2000              | - 39,392       |        |       |         |        |
| <b>Minimum STRUCTURAL RETURN LOSS (SRL)</b>       | <b>Sweep</b>      | <b>dB</b>      |        |       |         |        |
|   | 5Mhz – 300Mhz     | -23,47         |        |       |         |        |
|   | 300 Mhz- 650 Mhz  | -17,46         |        |       |         |        |
|   | 650Mhz – 1100Mhz  | -14,61         |        |       |         |        |
| <b>SMITH CHART (300Khz-270Mhz)</b>                |                   |                |        |       |         |        |
| <b>Frequency (Mhz)</b>                            | 13,78             | 26,80          | 46,073 | 89,1  | 110,240 | 150,01 |
| <b>Ohms ( O )</b>                                 | 77,5              | 75,98          | 76,58  | 75,46 | 75,99   | 76,52  |

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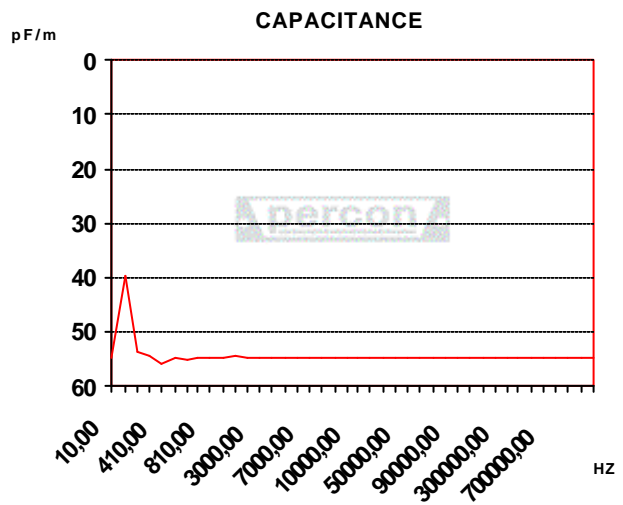
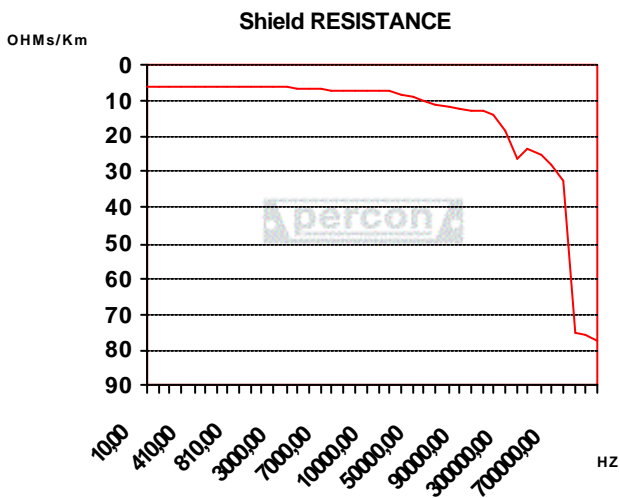
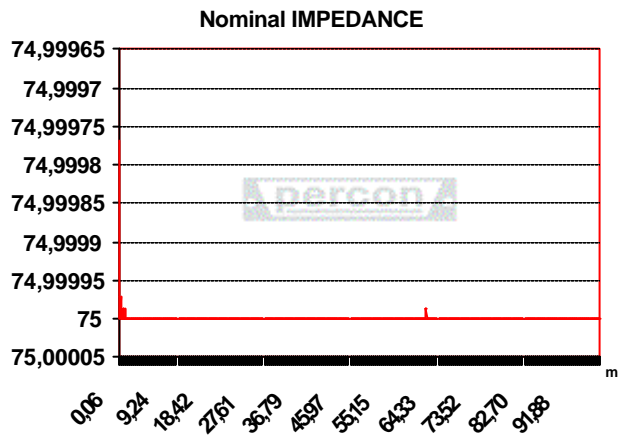
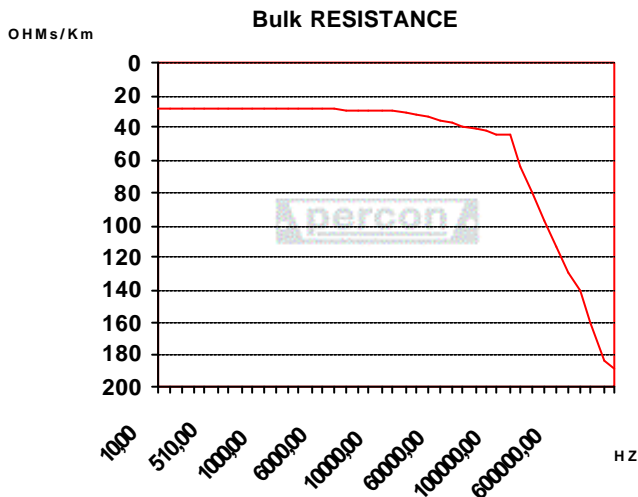
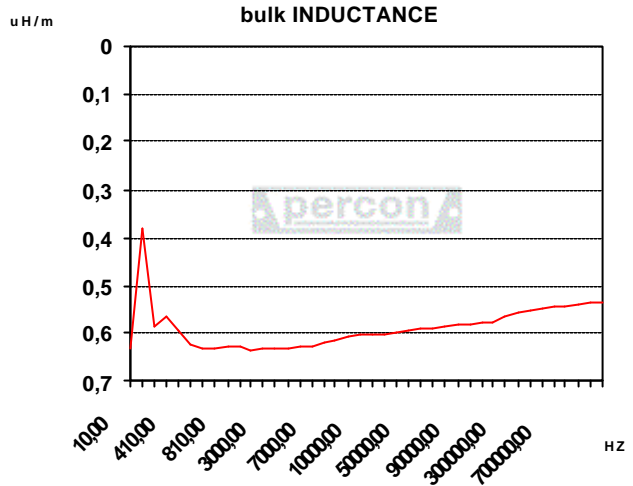
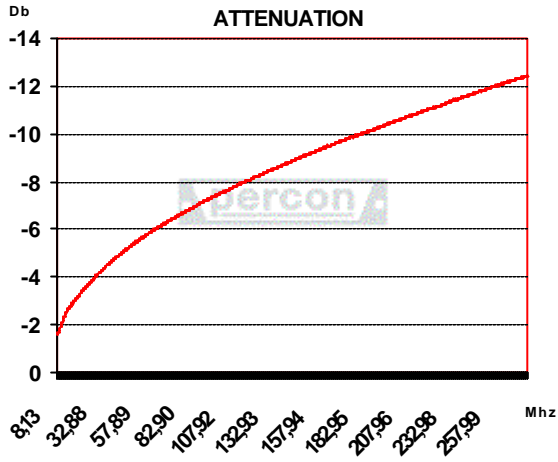


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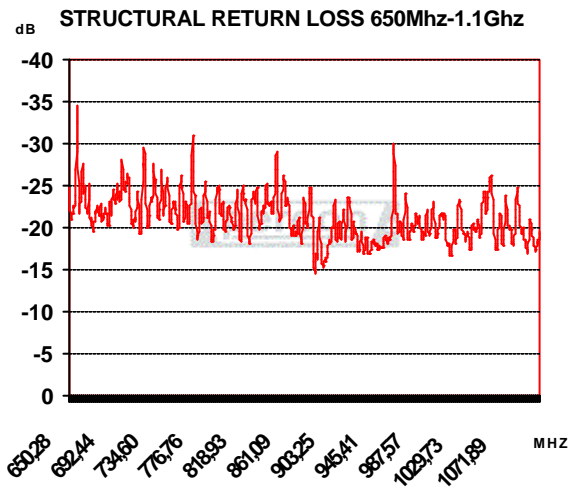
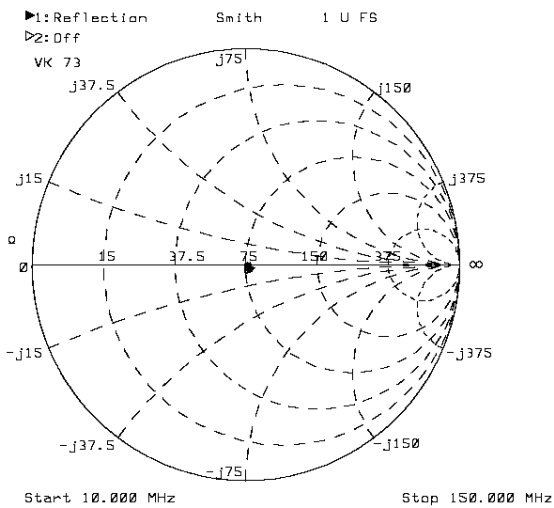
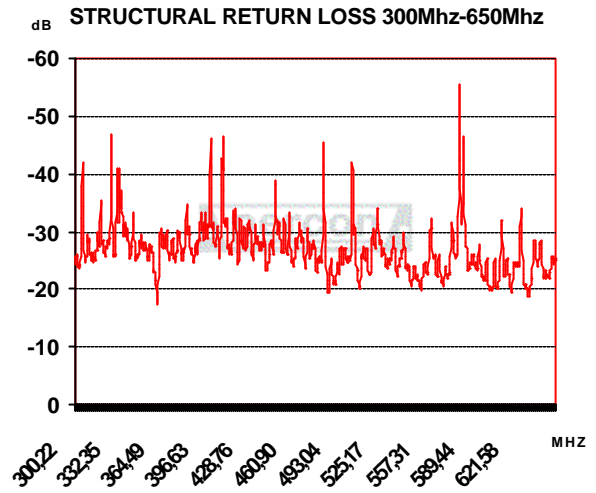
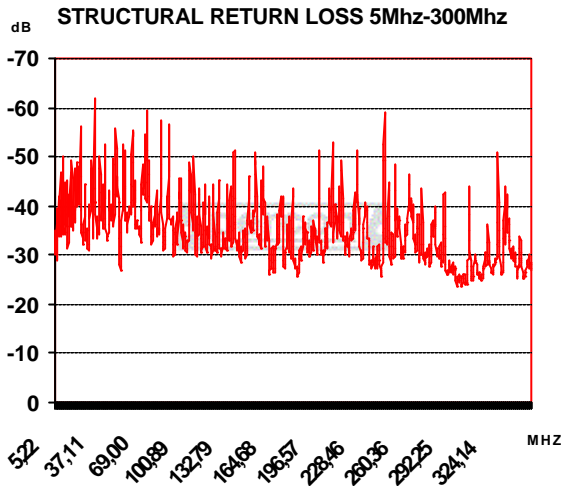


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**Datos de aplicación / Application Data:**

**Formato digital / Digital format:**

|  | MAXIMUM TRANSMISSION DISTANCE (meters) AT SERIAL DIGITAL DATA RATES (SDI) |
|--|---|
| 71,5 Mhz/143 Mbps (SMPTE 259M, Composite NTSC)     | 449,47  |
| 88,5 Mhz /177 M bps (ITU-R BT. 601, Composite PAL) | 406,74  |
| 135 Mhz/270 Mbps (SMPTE 259M, Component video)     | 332,895   |
| 180 Mhz/360 Mbps (SMPTE 259M, widescreen)          | 289,65  |
| 270 Mhz/540 Mbps (SMPTE 344M, widescreen)          | 237,55  |
| 750 Mhz/1.5 Gbps (SMPTE 292M, HDTV)                | 91,20   |

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

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*Formato analógico / Analogue format:*

|                                   | TRANSMISSION DISTANCE IN METERS OF ANALOGUE VIDEO SIGNAL WITH MINIMUM LOSSES (MAX -3 dB) |
|-----------------------------------|--|
| M-II (COMPONENT 5,0 Mhz BW)       | 177,93   |
| EBU-C (COMPOSITE 5,5 Mhz BW)      | 166,45   |
| BETACAM SP (COMPONENT 4,5 Mhz BW) | 188,04   |
| U-MATIC SP (COMPOSITE 4 Mhz BW)   | 195,45   |
| S-VHS (COMPOSITE 5,0 Mhz BW)      | 166,45   |
| ANALOG COMPONENT/RGB (5,0 Mhz BW) | 166,45   |

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

**3 POWER CABLE 1,5 mm<sup>2</sup> DATA:**

|  |            |          |
|--|------------|----------|
| Impedancia del núcleo @ 1Khz/impedance @ 1Khz  | W/Km       | 11,9835  |
| Cap. conductor a conductor y masa @ 1Khz/<br>Cap. between Conductor and other to shield @ 1Khz | pF/m       | 318,422  |
| Resistencia malla en DC/shield DC resistance   | W/Km       | 59,9284  |
| Cap. entre conductor y conductor a @ 1Khz/<br>Cap. between conductor to conductor @ 1Khz       | pF/m       | 170,626  |
| Resistencia del vivo en DC/<br>Conductor DC Resistance   | W/Km       | 11,2918  |
| Inductancia del vivo a 1Mhz/<br>Conductor inductance @ 1Mhz                                    | µH/m       | 0,520138 |
| ATENUACIÓN/ATTENUATION   | Frec (Khz) | dB/100m  |
|  | 348,259    | -4,66    |
|  | 2712,935   | -13,94   |
|  | 5125,871   | -18,97   |
|  | 6814,925   | -22,81   |
|  | 7538,806   | -23,28   |
|  | 8745,274   | -19,35   |
|  | 9469,154   | -23,56   |
|  | 9951,741   | -25,88   |

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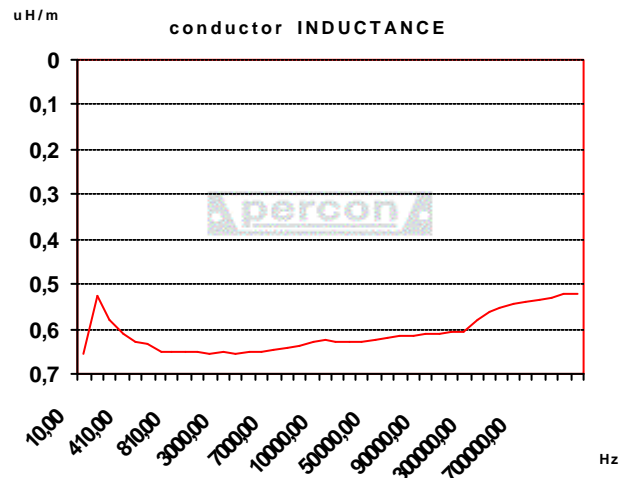
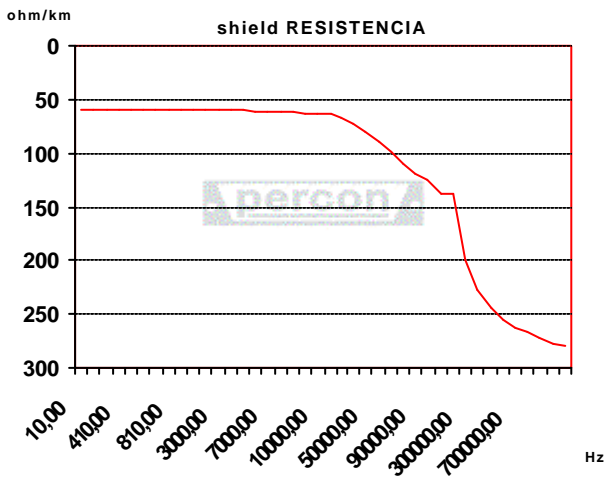
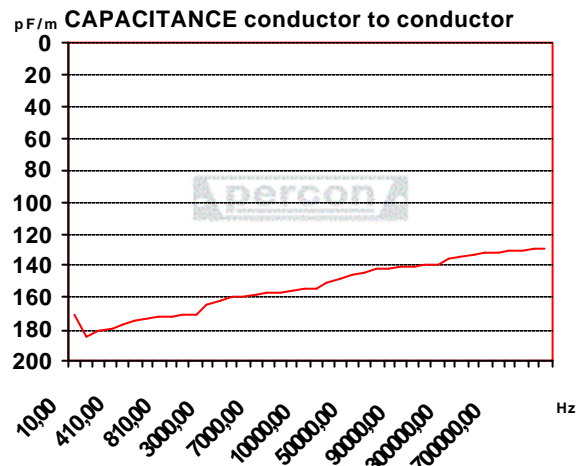
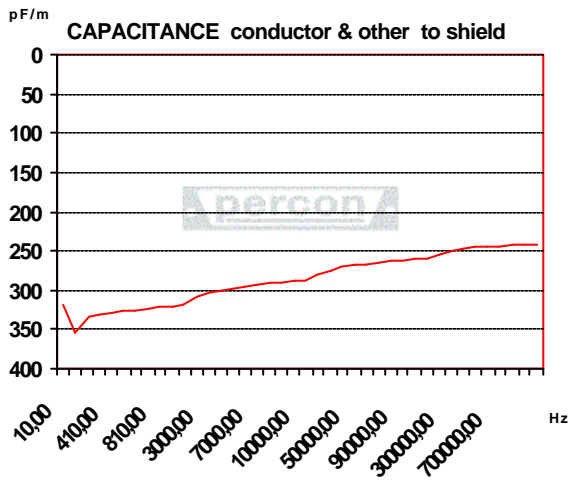
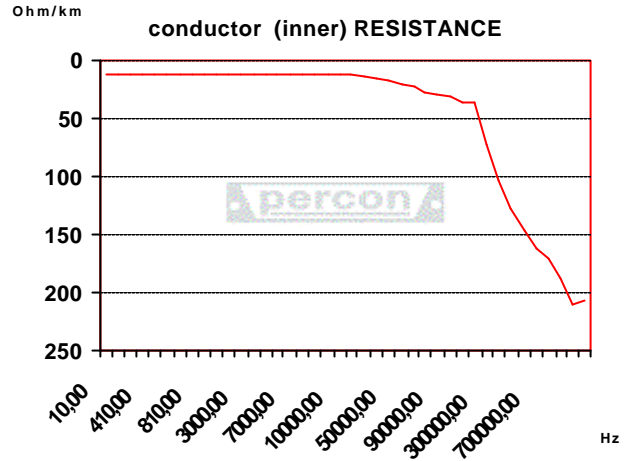
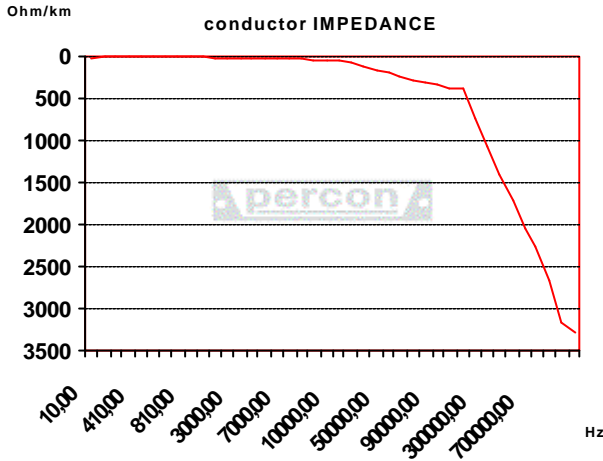


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