# 35 Standard 75 Ohm Plasma Grade video coaxial cable






Van Damme Standard 75 Ohm Plasma Grade Video Coax is a high resolution cable designed for use with analogue video signals. Precision performance is combined with flexibility usually only found in microphone cables resulting in an excellent video cable for dynamic use in the broadcast, video and presentation markets.

### Applications

- Analogue video transmission up to 100 metres
- Suitable for SP Dif digital audio and word clock

### Application notes

- Can be used with serial digital video transmissions up to 138 metres
- Uses RG59 type crimp connectors
- Colour coding suitable for RGBHV, RGBS, YUV and other video formats

### Transmission length guidelines

These transmission lengths have been calculated throughout to a maximum attenuation of -30dB at the frequency corresponding to half of the actual signal data rate for SMPTE 259. SMPTE and others advise that 90% of this cable length introduces an appropriate safety factor - this has been taken into account in the chart below.

| | SMPTE 259 | | | |
|---|---|---|---|---|
| Data rate (clock) | 143Mb/s | 177Mb/s | 270Mb/s | 360Mb/s |
| ½ Clock Rate | 72MHz | 89MHz | 135MHz | 180MHz |
| Recommended transmission length | 212m | 191m | 159m | 138m |

# standard 75 series

## Mechanical Specifications

| | | |
|---|---|---|
| Conductor | Material | Bare ultra pure oxygen free copper |
| | Stranding | 7x 0.20mm (0.22mm²) AWG 24/7 |
| Dielectric | Material | Polyethylene |
| | Average thickness | 1.55mm |
| | Diameter | 3.73mm ± 0.03 |
| Screen | Material | Bare oxygen free braided copper wire |
| | Coverage | 95% |
| | Dimension | 16x9x0.12mm |
| Overall Jacket | Material | Flexible PVC; colours as follows |
| | | Jet Black RAL 9005 |
| | | Flame Red RAL 3000 |
| | | Mint Green RAL 6029 |
| | | Sky Blue RAL 5015 |
| | | Light Ivory (Cream) RAL 1015 |
| | | Lemon Yellow RAL 1012 |
| | Average thickness | 0.95mm |
| | Overall diameter | 6.15mm |
| Bend radius | | 15 x overall diameter |
| Cable weight | | 51 Kg/Km |

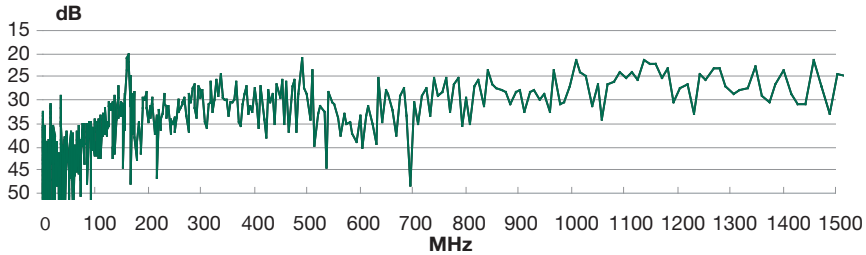
## Physical properties unaged

| | | |
|---|---|---|
| Jacket (@ 60°C) | Tensile strength | > 10 N/mm² |
| | Elongation | > 125 % |
| | Heat Shock Test | 150°C x 1 hour / No cracks |

## Electrical Specifications

| | | |
|---|---|---|
| Resistance | Conductor | 85 Ohm/Km |
| | Shield | 13 Ohm/Km |
| | Insulation | > 5000 M Ohm/Km |
| Voltage test | | 7000V DC 1 minute OK |
| Capacitance | | 67 pF/m |
| Velocity of propagation | | 66% |
| Impedance at 10MHz | | 75 Ohms ± 2 |
| Attenuation | 10 MHz | 4.21 dB/100m |
| | 100 MHz | 13.32 dB/100m |
| | 135 MHz | 15.08 dB/100m |
| | 180 MHz | 17.42 dB/100m |
| | 200 MHz | 18.36 dB/100m |
| | 400 MHz | 28.11 dB/100m |
| | 743 MHz | 38.31 dB/100m |

## Structural return loss




# Description

| Stock code | Description | Reel length |
|---|---|---|
| 268-306-000 | Van Damme Plasma Grade standard coax black | 500m |
| 268-307-020 | Van Damme Plasma Grade standard coax red | 500m |
| 268-322-040 | Van Damme Plasma Grade standard coax yellow | 500m |
| 268-308-050 | Van Damme Plasma Grade standard coax green | 500m |
| 268-309-060 | Van Damme Plasma Grade standard coax blue | 500m |
| 268-310-090 | Van Damme Plasma Grade standard coax cream | 500m |