CD7506P

Plenum 4.5GHz HD/SDI RG6 Coaxial Cable

CLARK WIRE & CABLE CD7506P

Low-Loss RG6 18AWG Size

4.5 GHz Bandwidth

Gas-Injected Dielectric

SMPTE Compliant Up To 3Gbs

Foil & Braid Shield

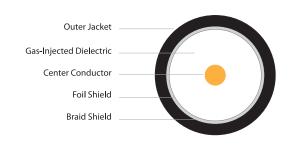UL Listed Type CMP

Part Number: **CD7506P**
Description: 4.5GHz HD/SDI RG6 Plenum Rated Coaxial Cable

Materials & Dimensions

Center Conductor	18 AWG Solid BC .040" OD
Dielectric	Gas-Injected Foam FEP .170" OD
Shield	100% Aluminum Foil 95% TC Braid
Jacket	Low Pressure, Easy Strip PL-PVC
Overall Diameter	.237"
Available Colors	Black (other colors available as special order)

Outer Jacket
Gas-Injected Dielectric
Center Conductor
Foil Shield
Braid Shield

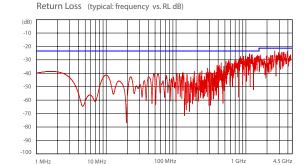## Performance Characteristics

Impedance	Return Loss	DC Resistance	Capacitance	Vel. of Prop.	Pulling Tension	Bend Radius	Operating Temperature	Weight	UL Listing
75Ω (+/-2)	>23 dB (1MHz - 1.5GHz) >21dB (1.5GHz - 4.5GHz)	Conductor: 6.4 Ω/Mft Shield: 2.8 Ω/Mft	16.1 pF/ft	84%	73 lbs max.	2.4" min.	0˚C to 75˚C	40 lbs/Mft	CMP

Frequency	1 MHz	3.6 MHz	10 MHz	71.5 MHz	135 MHz	270 MHz	360 MHz	720 MHz	1 GHz	1.5 GHz	2.25 GHz	3 GHz	4.5 GHz
Attenuation dB/100 feet	0.22	0.45	0.73	1.7	2.4	3.4	3.9	6.1	7.2	9.1	11.5	13.7	16.9
Attenuation dB/100 meters	0.72	1.5	2.4	5.6	7.9	11.2	12.8	20.0	23.6	29.9	37.7	44.9	55.4

Data Rate	270 Mb/s SMPTE 259	360 Mb/s SMPTE 259	1.5 Gb/s SMPTE 292	3 Gb/s SMPTE 424	Dual-Link 6 Gb/s SMPTE ST2081-1	Quad-Link 12 Gb/s SMPTE ST2082
Maximum Distance (typical)	1232'	1068'	282' - 458'	193' - 290'	430'	430'

Actual distances may vary with each system. Typical lengths listed above only serve as a guideline based upon SMPTE standards. Individual system testing is recommended to determine actual maximum transmission distances.

The CD7506P is a precision 4.5 GHz RG6 coax for HD/SDI, standard SDI or high resolution video applications. Clark's CD series coax features specifications that meet or exceed SMPTE standards for high-definition digital video interconnect applications. Also built for easy termination, the CD series has an easy-to-strip outer jacket and dielectric that streamline connector termination. UL rated type CMP, the CD7506P can be installed in a variety of permanent installation locations and environments.

Return Loss   (typical: frequency vs. RL dB)

(dB)
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100

1 MHz   10 MHz   100 MHz   1 GHz   4.5 GHz

#24403