

PRX107

Reel with *HighFlex* 75Ω coaxial video cable



The PRX107 is a *HighFlex* 75Ω coaxial video cable (CXV107) assembled on a lightweight, extremely strong and impact resistant reel (CDM310).

The cable is solid but flexible constructed featuring a thin but dense stranded (48 strands) high purity copper conductor (20 AWG), which is surrounded by a foamed polyethylene isolator. The shielding consists of a dual braiding which offers a high immunity against noise and interference caused by external devices, while offering a high flexibility and reliability for mobile applications.

The cable end is terminated using a male BNC connector while chassis side is fitted with a female BNC connector. It can be used for a wide variety of mobile applications such as analogue video interconnections as well as HDTV digital SDI and HD-SDI.



MOBILE

STAGE

CONNECTORS BY NEUTRIK® innovative solutions superior quality

75Ω

Impedance

3G-SDI

3.0Gb/s

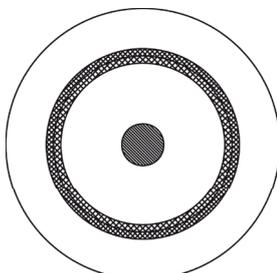
Physical Characteristics

Type of cable	75Ω coaxial video cable
Inner conductor	BC 48 x 0.12 mm (OFC)
Inner conductor section	0.55 mm ²
Number of conductors	1
Insulation	Foamed PE Ø 4.5 mm
Insulation colour	White
Shielding 1	Braiding BC 16 x 7 x 0.12 mm > 75% coverage
Shielding 2	Braiding TC 16 x 7 x 0.12 mm > 72% coverage
Separator	None
Outer jacket	Highflex PVC
Outer jacket colour	Black
Outer jacket dimensions	Ø 7.0 mm
American Wire Gauge	20 AWG
Connection type	BNC male (cable) to BNC female (chassis)
Fitted connectors	NBNC75BTU11, NBB75DSG
Dimensions (W x H x D)	312 x 392 x 234 mm
Weight	

Electrical Characteristics

Dielectricum Σr	1.5
Max. conductor DC resistance	22.5 (Ω/Km)
Conductor to shield Nom. Capacitance	53 (pF/m)
Nom. Velocity of propagation	%
Nom. Delay	(ns/m)
Dielectric strength	0.5 (KV/1min. DC)
Nom. shield DC resistance	17 (Ω/Km)
Characteristic impedance	75Ω +/-5Ω
Voltage rating	300V

Cross section



Standards & regulations

RoHS2 compliant	According EU Directive 2011/65/EU
Reach compliant	According EC 1907/2006
Indoor / outdoor	Indoor
Shielding effectiveness	According EN 50083-2:2001 Class A

Mechanical Characteristics

Temperature range	fixed installation	-40° C till +80° C
	flexible installation	-25° C till +70° C
Bending radius	fixed installation	8 x cable Ø OD
	flexible installation	10 x cable Ø OD

Ordering & packaging

PRX107/50 | 50 meter version

Recommended accessories & connections

Additional specifications



Attenuation nom.														
Frequency (MHz)	1	5	10	25	100	180	270	360	540	720	1000	1500	3000	4500
Attenuation (dB/100m)	0.83	2.8	2.6	4.6	10.5	14.1	18.00	22.1	28.3	35.8	42.3	76.8	97.8	115

Max attenuation = Nom x 1.15

Min. Return loss		
Frequency in MHz	5 MHz ~ 1600 MHz	1600 MHz ~ 4500 MHz
Return loss (dB/100m)	> 18 dB	> 12 dB

Recommended Transmission distance at Serial Digital Data rates				
Data Rate	270 Mb/s	360 Mb/s	1.5 Gb/s	3 Gb/s
Standard	SMPTE 259 M Component SD-SDI	SMPTE 259 M Widescreen SD-SDI	SMPTE 292M HD-SDI	SMPTE 424M 3G-SDI
Example video formats	480i	576i	720p / 1080i	1080p
Recommended distance (CXV107)	< 265 meter	< 230 meter	< 70 meter	< 45 meter

Recommended length values are based on typical attenuation values by 30 dB loss at 1/2 clock frequency, but are depending on equalizer on receiving side. Recommendations are based on 20 dB equalizer, but can increase depending of the used equalizer.

Shielding effectiveness

