

PRX160

Reel with *HighFlex™* RG6/U 75Ω coaxial video cable

PROCAB

PRIME
SERIES



The PRX160 is a *HighFlex™* 75Ω coaxial video cable (PRX160) assembled on a lightweight, extremely strong and impact resistant reel (CDM310).

The cable is solid but flexible constructed featuring a stranded high purity copper conductor (19 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

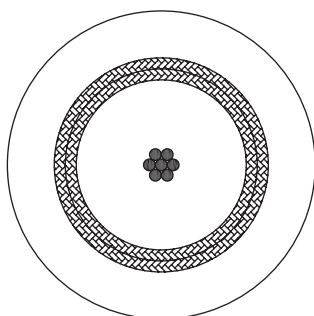
CONNECTORS
BY NEUTRIK®  innovative solutions
superior quality



Physical characteristics	
Type of cable	RG6/U 75Ω coaxial video cable
Inner conductor	BC 7 x 0.36 mm (OFC)
Inner conductor section	0.71 mm ²
Number of conductors	1
Insulation	Foamed PE Ø 4.8 mm
Insulation Colour	White
Shielding 1	Braiding TC 16 x 9 x 0.12 > 95% coverage
Shielding 2	Braiding TC 16 x 9 x 0.12 > 95% coverage
Separator	None
Outer Jacket	PVC
Outer Jacket Colour	Black
Outer Jacket Dimensions	Ø 7.3 mm
American Wire Gauge	19 AWG
Connection type	BNC male (cable) to BNC female (chassis)
Fitted connectors	NBNC75BYY11, NBB75DSG
Dimensions (W x H x D)	312 x 392 x 234 mm

Electrical characteristics	
Dielectricum Σ_r	1.5
Max. conductor DC resistance	25 (Ω/Km)
Conductor to shield Nom. Capacitance	5.56 (nF/m)
Nom. Velocity of propagation	69 %
Nom. Delay	4.9 (ns/m)
Dielectric strength	1.5 (KV/1min. DC)
Nom. shield DC resistance	7.4 (Ω/Km)
Characteristic impedance	75Ω +/-3Ω
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
Cabling standard	RG6/U

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	
PRX160/50	50 meter version
PRX160/100	100 meter version

Additional specifications

Attenuation nom.															
Frequency (MHz)	1	5	10	25	100	180	270	360	540	720	1000	1500	3000	4500	6000
Attenuation (dB/100m)	0.672	0.672	2.972	4.179	7.893	10.433	12.901	15.028	18.674	21.854	26.238	32.763	49.384	63.617	77.191

Max attenuation = Nom x 1.15

Min. Return loss		
Frequency in MHz	5 MHz ~ 1600 MHz	1600 MHz ~ 6000 MHz
Return loss (dB/100m)	18	15

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 (PCX160)	342 meter	293 meter	90 meter	61 meter

Recommended length values are based on typical attenuation values by 30 dB loss at 1/2 clock frequency.