

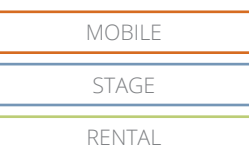
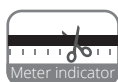
# PCX160

## HighFlex RG6/U 75Ω coaxial video cable



The PCX160 is an RG6/U coaxial video cable specifically designed for digital SDI, HD-SDI and 3G-SDI video transmissions in mobile applications. Its Highflex™ PVC outer jacket in combination with other high-grade materials guarantee a great flexibility, long service life span and accurate signal transmission under all circumstances.

The conductor section of 19 AWG is constructed using 7 strands of high purity copper with a thickness of 0,36 mm, resulting in an overall section of 0,71 mm<sup>2</sup> surrounded by a foamed polyethylene isolator. The dual braided overall shielding consists of two individual layers with a coverage percentage of 95%, guaranteeing the best possible immunity against noise and interference.



MOBILE

STAGE

RENTAL

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 <sup>2</sup>
Number of conductors	1
Insulation	Foamed PE Ø 4.6 mm
Insulation Colour	White
Shielding 1	Braiding TC 16 x 12 x 0.12 95% coverage
Shielding 2	Braiding TC 16 x 12 x 0.12 95% coverage
Separator	None
Outer Jacket	PVC
Outer Jacket Colour	Black
Outer Jacket Dimensions	Ø 7.0 mm
American Wire Gauge	19 AWG

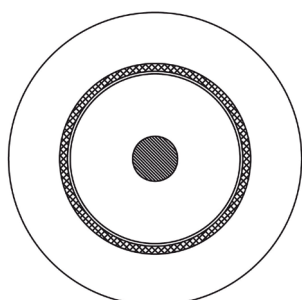
Standards & regulations	
RoHS2 compliant	According EU Directive 2011/65/EU
Reach compliant	According EC 1907/2006
Flammability test	According IEC 60332-1
Indoor / outdoor	UV resistant (UL1581, UVA, 720 h)
Circuit integrity	n/a
Smoke emissions	According IEC 61034
Zero halogen compounds	According EN 50267-2-1, IEC 60754
Cabling standard	RG6/U

Mechanical Characteristics		
Temperature range	fixed installation	-20° C till +80° C
	flexible installation	-15° C till +60° C
Bending radius	fixed installation	8 x cable Ø OD
	flexible installation	10 x cable Ø OD

Electrical Characteristics	
Dielectricum $\Sigma_r$	
Max. conductor DC resistance	27.4 (Ω/Km)
Conductor to shield Nom. Capacitance	53 (pF/m)
Nom. Velocity of propagation	81 %
Nom. Delay	4.1 (ns/m)
Dielectric strenght	1.5 (KV/1min. DC)
Nom. shield DC resistance	9 (Ω/Km)
Characteristic impedance	75Ω +/-3Ω
Voltage rating	300V

Ordering & packaging		
PCX160/1	NHFR, IEC 60332-1, Black	100 meter plastic reel

### Cross section



### Recommended accessories & connections

BNC connector	Neutrik	NBNC75BRU11
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# Additional specifications



Attenuation nom.															
Frequency (MHz)	1	3.6	5	10	25	100	180	270	360	540	720	1000	1500	3000	4500
Attenuation (dB/100m)	0.787	1.476	1.772	2.362	3.872	7.874	10.827	13.124	15.421	19.358	22.639	26.904	34.122	51.184	64.964

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	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)	325 meter	279 meter	85 meter	58 meter

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