

### Product information

The CCX159 is a coaxial installation cable featuring a FlamoFlex™ outer jacket compliant to the IEC 60332-1 standard regarding fire and flammability resistance in public installations. The FlamoFlex™ material is specifically designed with installers convenience in mind, offering a smooth and durable outer jacket for easy installation and pulling. This cable is designed according the RG59/U standard, featuring a solid high purity copper conductor which is surrounded by polyethylene isolator. The double shielding consisting of an overall aluminum foil surrounded by a braiding offers a high immunity against noise and interference caused by external devices. The CCX159 cable can be used for a wide variety of installation applications such as CATV and CCTV distribution, analogue video interconnections as well as HDTV digital SDI, HD-SDI and 3G-SDI video transmissions. Compatible with Neutrik BNC connector NBNC75BLP7 (CCX159) .

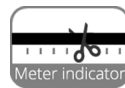


Recommended HD distance : 80 m

### Highlights

- FlamoFlex™ IEC 60332-1 installation jacket
- Double shielding (Al-foil + Braiding)
- HD-SDI up to 67 meter
- 3G-SDI up to 45 meter

### Properties



### Inner Conductors



### Shielding



### Usage

INSTALL

## Physical Characteristics

Type of cable	75 coaxial video cable		
Inner conductor	Material	BC 1 x 0.643 mm (Ø) (OFC)	
	Section	0.32 mm <sup>2</sup>	
	Number of conductors	1	
Separator	None		
Inner conductor	American Wire Gauge	22 AWG	
	Insulation	Material	FPE 3.7 mm (Ø)
		Colours	White
Overall shielding	Aluminium foil	Al-mylar, 100% coverage - 25% Overlap	
	Braiding	TC 12 x 5 x 0.10 mm (Ø) (OFC)	
Separator	None		
Outer jacket	Material	NHFR 6.0 mm (Ø)	
	Colours	Black	

## 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	RG59/U

## Electrical Characteristics

Max. conductor	DC resistance	54.3 ( / Km)
Dielectric strength		0.5 (KV / 1 min. DC)
Nom. shield DC resistance		31.8 ( / Km)
Characteristic impedance		75 ± 5
Rated voltage		300 V

## Mechanical Characteristics

Temperature range	Fixed installation	- 20 °C till + 80 °C
	Flexible installation	- 15 °C till + 60 °C
Bending radius	Fixed installation	8 x outer diameter
	Flexible installation	10 x outer diameter

Frequency (MHz)	1	5	10	25	100	180	270	360	540	720	1000	1500	3000	4500
Attenuation (dB/100 m)	1.10	2.80	3.937	5.906	10.926	13.30	16.00	18.40	22.54	26.50	32.00	40.20	60.699	74.807

Max attenuation = Nom x 1.15

Frequency in MHz	5 MHz ~ 1600 MHz	1600 MHz ~ 4500 MHz
Return loss (dB/100m)	> 20 dB	> 15 dB

Data Rate	Standard	Example video formats	Recommended distance (m)
270 Mb/s	SMPTE 259 M Component SD-SDI	480i	262
360 Mb/s	SMPTE 259 M Widescreen SD-SDI	576i	223
1.5 Gb/s	SMPTE 292M HD-SDI	720p / 1080i	67
3 Gb/s	SMPTE 424M 3G-SDI	1080p	45

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.