



Highlights:

- Flamoflex™ IEC 60332-1 installation jacket
- Double shielding (Al-foil + Braiding)
- HD-SDI up to 111 meter
- 3G-SDI up to 76 meter

The CCX160 is a coaxial installation cables 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 RG6/U standards, 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 CCX160 cable can be used for a wide variety of installation applications such as CATV and CCTV distribution, analogue video interconnections as well has HDTV digital SDI, HD-SDI and 3G-SDI video transmissions. Compatible with Neutrik BNC connector NBNC75BTU11. Recommended HD distance : 140 m



Properties:



Inner Conductors:



Shielding:



Usage:



Physical Characteristics:

Inner conductor	Insulation	Material	FPE 4.57 mm (Ø)
		Colours	White
Overall shielding	Aluminium foil		Al-mylar, 100% coverage - 25% Overlap
	Braiding		TC 16 x 9 x 0.12 mm (Ø) (OFC)
Outer jacket	Material		NHFR 7 mm (Ø)
	Colours		Black
Type of cable			75 Ω coaxial video cable
Inner conductor	Material		BC 1 x 1.02 mm (Ø) (OFC)
	Section		0.82 mm ²
Separator			None
Inner conductor	American Wire Gauge		18 AWG
	Number of conductors		1

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

Electrical Characteristics:

Max. conductor	DC resistance	22.5 (Ω / Km)
Dielectric strength		0.5 (KV / 1 min. DC)
Rated voltage		300 V
Characteristic impedance		75 Ω ± 5 Ω
Conductor to shield Nom. Capacitance		53 (pF/m)
Nom. shield DC resistance		14.9 (Ω / Km)

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

Variants:

- CCX160/1 - 100 m plastic reel
- CCX160/3 - 300 m plastic reel

Min. Return loss:

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

Attenuation nom.:

Frequency (MHz)	1	5	10	25	100	180	270	360	540	720	1000	1500	3000	4500
Attenuation (dB/100m)	0.71	1.706	2.33	3.543	6.398	9.33	11.50	12.60	15.60	18.20	21.064	26.215	41.00	48.953

Max attenuation = Nom x 1.15

Recommended Transmission distance at Serial Digital Data rates:

Data Rate	Standard	Example video formats	Recommended distance (m)
270 Mb/s	SMPTE 259 M Component SD-SDI	480i	406
360 Mb/s	SMPTE 259 M Widescreen SD-SDI	576i	354
1.5 Gb/s	SMPTE 292M HD-SDI	720p / 1080i	111
3 Gb/s	SMPTE 424M 3G-SDI	1080p	76

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.