



NV-213A(-M) Video Transceivers



- ▶ Full-motion monochrome or color video
- ▶ Transmit up to 229 m (750 ft) in combination with a passive component
- ▶ Transmit up to 1 km (3000 ft) with active receivers
- ▶ No power required
- ▶ Easy to install

Functions

The NV-213A and NV-213A-M video transceivers are passive (non-amplified) devices that allow the transmission of real-time monochrome or color video over unshielded twisted-pair (UTP) telephone wire. Baseband (composite) signals of any type are supported.

The exceptional interference rejection and low emissions allow video signals to coexist in the same wire bundles as telephone and data communications, or in low-voltage power circuits. The NV-213A-M is intended to be installed on the camera side only.

Technical Specifications

Electrical

Power	No external power required
Frequency Response	DC to 5 MHz
Attenuation	0.5 dB (typical)
Common-mode/ Differential-mode Rejection (15 kHz to 5 MHz)	60 dB (typical)
Impedance (coax) Model NV-213A Model NV-213A-M	75 Ohm (female BNC) 75 Ohm (male BNC)
Impedance (UTP, terminal block)	100 Ohm

Wiring

Network wiring	One unshielded twisted-pair 24 AWG to 16 AWG (0.5 mm to 1.3 mm) or thicker
Category Type	2 or better
Impedance	100 ± 20 Ohm
DC Loop Resistance	18 Ohm per 100 m (52 Ohm per 1000 ft)
Differential Capacitance (max.)	62 pF/m (19 pF/ft)
Wire Length (max.), with UTP cable and an active receiver	1 km (3000 ft)

Mechanical

Material	Black ABS
Weight	100 g (4.0 oz)
Dimensions (excluding connectors) (H x W x D)	28 x 76 x 39 mm (1.10 x 3.0 x 1.5 in.)
Mounting	Two (2), 4.4 mm (0.175 in.) diameter holes 63.5 mm (2.5 in.) apart

Environmental

Temperature	-20°C to 75°C (4°F to 135°F)
Relative Humidity	< 95% non-condensing

Ordering Information

NV-213A Video Transceiver 899380052201

UTP-NVT 1 channel, passive comp. (NV-213A) or
max. 914.4 m (3000 ft) with active (female) con-
nector

NV-213A-M Video Transceiver 899380052211

UTP-NVT 1 channel, passive, trans max.
213.36 m (700 ft) combination, with pass.
comp. or max of 914.4 m (3000 ft) with active
(male) comp. camera end only

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