

NP 206

PTZ Coax

As a cost-effective alternative to coax cable, Belden offers unshielded twisted pair (UTP) Siamese and round composite cable constructions for pan/tilt/zoom (PTZ) security cameras. Individual 4-pair UTP cables are available for both fixed camera and PTZ camera applications.



**Belden® New Generation®
UTP Composite Cables
For Fixed and PTZ
Camera Applications**

Wherever you look today — our offices and public spaces such as hospitals, airports, amusement parks, retail establishments, universities, casinos, sports stadiums and correctional facilities all have a surveillance system in place to monitor the people visiting their facilities and the people working within them.

But whatever the type of equipment used, the objective of these systems is clear: protect the people involved with the facility and the facility's assets.

Changing Cable Technology

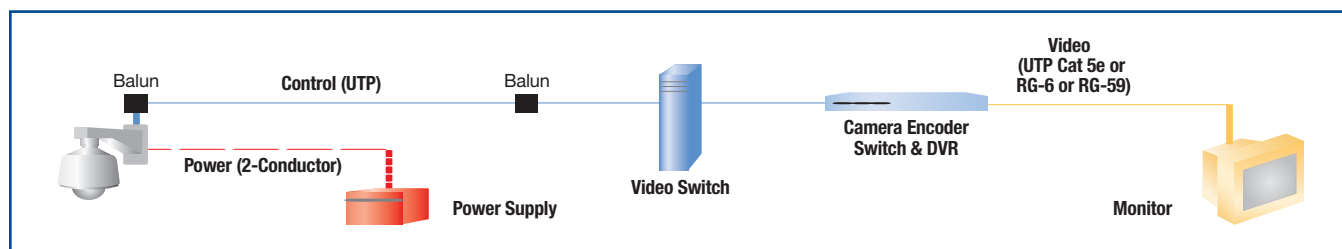
Currently there is a trend towards using unshielded twisted pairs (UTPs) for fixed- or PTZ-camera (video, control and power) applications. UTP cables are increasingly popular because they are smaller than coax (so cable density is less of a problem) and they are easier to pull than their coaxial cable counterparts. Typically, however, UTPs need baluns to convert their signal impedance from 100- to 75-ohms so this additional installation factor should be considered. Baluns are manufactured by companies such as NVT, Nitek, ETS and Vigitron.

**PTZ-Camera Applications
Using UTP Composite Cables**

Belden's new Siamese and Round UTP composite cable constructions feature Category 5e-tested components that are key for future premise applications. Belden's PTZ camera cables include the following:


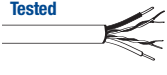

- *Product Nos. 5284US (Riser) and 6284US (Plenum) Siamese Composite cables* feature two video/ control UTP pairs with 24 AWG solid bare copper conductors that test to Category 5e. The power pair has 16 AWG stranded conductors.
- *Product Nos. 5284UE (Riser) and 6284UE (Plenum) Round Composite cables* feature two video/ control UTP pairs with 23 AWG solid bare copper conductors that test to Category 5e. The power pair has 16 AWG stranded conductors.
- *Product Nos. 5288US (Non-plenum) and 6288US (Plenum) Siamese Composite cables* feature four video/ control UTP pairs with 23 AWG solid bare copper conductors that test to Category 5e. The power pair has 16 AWG stranded conductors.

PTZ Composite Cable Layout



CCTV PTZ Camera Cable

Siamese and Round UTP Composite Cables, Riser and Plenum-Rated

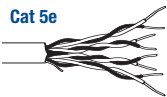
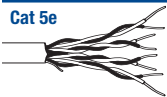
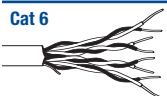
Type	Component Description	Insulation Material	Riser				Plenum			
			Part No.	Rating	Nominal OD		Part No.	Rating	Nominal OD	
					Inch	mm			Inch	mm
 Siamese Cat 5e Tested	2-Pair UTP 24 AWG (2) Cond. 16 AWG	Riser: Polyolefin Plenum: FEP Teflon® Riser: PVC Plenum: LSPVC*	5284US	CMR	.208 .426	5.28 x 10.82	6284US	CMP	.173 .358	4.39 x 9.09
 Round Cat 5e Tested	2-Pair UTP 23 AWG (2) Cond. 16 AWG	Riser: Polyolefin Plenum: FEP Teflon Riser: Polyolefin Plenum: FEP Teflon	5284UE	CMR	.233	5.92	6284UE	CMP	.220	5.59
 Siamese Cat 5e Tested	4-Pair UTP 23 AWG (2) Cond. 16 AWG	Riser: --- Plenum: FEP Teflon Riser: --- Plenum: LSPVC*	5288US†	CMR	---	---	6288US	CMP	.219 .452	5.56 x 11.48

*Low-smoke PVC

† Special construction available upon request.

CCTV Fixed and PTZ Camera Cable

Individual UTP Cables, Plenum-Rated and Non-Plenum

Type	Component Description	Insulation Material	Non-Plenum				Plenum			
			Part No.	Rating	Nominal OD		Part No.	Rating	Nominal OD	
					Inch	mm			Inch	mm
 Cat 5e	4-Pair UTP 24 AWG	Plenum: FEP Teflon Non-Plenum: Polyolefin	1583A	CM	.195	4.95	1585A	CMP	.198	5.03
 Cat 5e	4-Pair UTP 24 AWG	Plenum: FEP Teflon Non-Plenum: Polyolefin	1500A	CM	.190	4.83	1501A	CMP	.190	4.83
 Cat 6	4-Pair UTP 23 AWG	Plenum: FEP Teflon Non-Plenum: Polyolefin	7881A	CMR	.241	6.12	7882A	CMP	.224	5.69