Panduit Utility Grade Infrastructure

Support Smart Buildings with Utility Grade Infrastructure

Utility Grade Infrastructure (UTG) is a technology platform and assurance program that delivers UTG-rated cabling solutions to support specific applications, performance requirements, and life cycle needs for smart buildings of today and tomorrow.

Panduit's UTG-rated solutions are third-party tested and verified by UL to meet superior performance attributes required by the program.

The Fourth Utility

In today's buildings, the network is commonly considered the fourth utility. The network is a necessary service that not only provides voice and data throughout a facility, but also connects more and more operational technologies as buildings become smarter.

UTG solutions support the convergence of IT and OT subsystems in buildings. Networked devices require connectivity, power, and security and the utility grade infrastructure meets the most demanding of those requirements.

- Utility-ready structured cabling
- Advanced power delivery
- Enhanced cybersecurity
- Global availability

UTG Characteristics

Two unique levels have been developed for UTG certification: UTG10 and UTG20. These levels cover plenum, riser, LSZH and Euroclass CPR copper cables. Among other characteristics, UTG-rated cables offer:
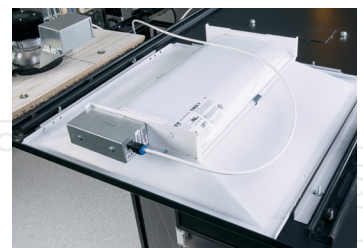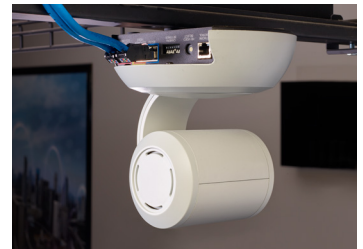
- Higher frequencies
- Elevated maximum temperatures
- Extended transmission distances
- Advanced AV protocols
- Next-Gen Wi-Fi technology
- Superior cable bundle performance under load
- HD and 4K UHD video surveillance

Panduit's UTG cables are tested and certified to perform beyond industry standards. Additionally, Panduit cables exceed UTG bandwidth specifications. A UTG10 cable is required to have a bandwidth of 425 MHz while a UTG20 cable is required to have a bandwidth of at least 500 MHz. Panduit's UTG cables exceed the UTG bandwidth requirements as follows:
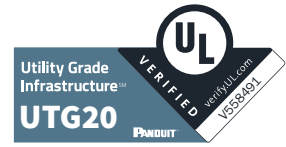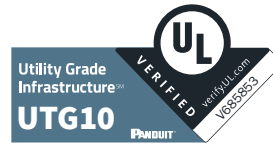
- UTG10 cables are rated to 450 MHz
- UTG20 cables are rated to 650 MHz

Transmission Distance	UTG10	UTG20
Maximum horizontal distance at 10Mbps	185m (606 ft.)	185m (606 ft.)
Maximum horizontal distance at 100Mbps	150m (492 ft.)	150m (492 ft.)
Maximum horizontal distance at 1Gbps	100m (328 ft.)	100m (328 ft.)
Maximum horizontal distance at 10Gbps	50m (164 ft.)	100m (328 ft.)

Applications	UTG10	UTG20
Video Surveillance		
1080p HD	185m (606ft.)	185m (606ft.)
4K UHD	185m (606ft.)	185m (606ft.)
PoE		
Type 1 – 15.4W	185m (606 ft.)	185m (606 ft.)
Type 2 – 30W	150m (492 ft.)	150m (492 ft.)
Type 3 – 60W	100m (328 ft.)	100m (328 ft.)
Type 4 – 100W	100m (328 ft.)	100m (328 ft.)
Max bundle size (0.5 Amps at 45*C	72 cables	90 cables
HDBaseT		
1080p HD	80-100m (262-328 ft.)	100m (328 ft.)
4K UHD	80-100m (262-328 ft.)	100m (328 ft.)
PoH	80-100m (262-328 ft.)	100m (328 ft.)
Wireless		
Wi-Fi (IEEE 802.11ac)	10Gbps at 37-50m (121-164 ft.)	10Gbps at 100m (328 ft.)
Wi-Fi (IEEE 802.11ax	10Gbps at 37-50m (121-164 ft.)	10Gbps at 100m (328 ft.)

Panduit's UTG Solution

PUP6AHD04BU-UTG

CJ6X88TGBU

FP6X88MTG

UTP6AX7BU

PUP6004BU-UTG

CJ688TGBU

FP6X88MTG

UTPSP7BUY

Part Number	Part Description
UTG20 Offering	
PUP6AHD04BU-UTG	UTG20 Vari-MaTriX HD UTP Copper Cable, 23 AWG, Plenum, blue jacket, 1000 ft
PUP6AHD04WH-UTG	UTG20 Vari-MaTriX HD UTP Copper Cable, 23 AWG, Plenum, white jacket, 1000 ft
PUR6AV04BU-UTG	UTG20 Vari-MaTriX UTP Copper Cable, 23 AWG, Riser, blue jacket, 1000 ft
PUR6AV04WH-UTG	UTG20 Vari-MaTriX UTP Copper Cable, 23 AWG, Riser, white jacket, 1000 ft
CJ6X88TGBU	Mini-Com® UTP jack, Cat 6A, blue
CJ6X88TGWH	Mini-Com® UTP jack, Cat 6A, white
FP6X88MTG	Field Terminable Plug, Cat 6/6A, black
FC-ICCP1MBU	FieldCord™ Connector, UTP, Cat 6A, blue jacket, 1 meter
UTP6AX7BU	Patch Cord, UTP, Cat 6A, blue jacket, 7 ft
UTP6AX10BU	Patch Cord, UTP, Cat 6A, blue jacket, 10 ft
UTP6AX7	Patch Cord, UTP, Cat 6A, white jacket, 7 ft
UTP6AX10	Patch Cord, UTP, Cat 6A, white jacket, 10 ft
UTG10 Offering	
PUP6004BU-UTG	UTG10 UTP Copper Cable, 23 AWG, Plenum, blue jacket, 1000 ft
PUP6004WH-UTG	UTG10 UTP Copper Cable, 23 AWG, Plenum, white jacket, 1000 ft
PUR6004BU-UTG	UTG10 UTP Copper Cable, 23 AWG, Riser, blue jacket, 1000 ft
PUR6004WH-UTG	UTG10 UTP Copper Cable, 23 AWG, Riser, white jacket, 1000 ft
CJ688TGBU	Mini-Com® UTP jack, Cat 6, blue
CJ688TGWH	Mini-Com® UTP jack, Cat 6, white
FP6X88MTG	Field Terminable Plug, Cat 6/6A, black
FC-ICCP1MBU	FieldCord™ Connector, UTP, Cat 6A, blue jacket, 1 meter
UTPSP7BUY	Patch Cord, UTP, Cat 6, blue jacket, 7 ft
UTPSP10BUY	Patch Cord, UTP, Cat 6, blue jacket, 10 ft
UTPSP7Y	Patch Cord, UTP, Cat 6, white jacket, 7 ft
UTPSP10Y	Patch Cord, UTP, Cat 6, white jacket, 10 ft

UTG-rated solutions are covered by the Panduit 25-year warranty, and include an extended applications assurance warranty based on the performance test results verified by UL. This warranty is available from Panduit provided the solution is installed by a UTG-certified integrator.