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## Panduit Utility Grade Infrastructure

# Build, Connect, Power, and Protect Buildings and Occupants

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:

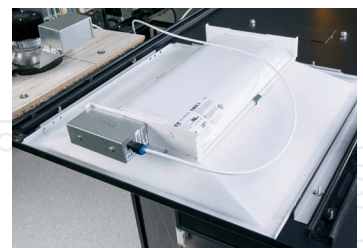
- Higher frequencies
- Elevated maximum temperatures
- Extended transmission distances
- Advanced AV protocols
- Next-Gen Wi-Fi technology
- Superior cable bundle performance under load
- HD and 4K UHD video surveillance

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:

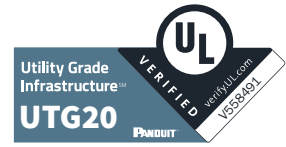
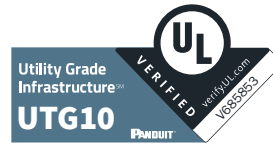
- UTG10 cables are rated to 450 MHz
- UTG20 cables are rated to 650 MHz

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.)

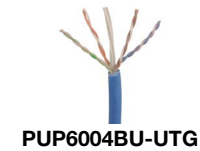
Applications	UTG10	UTG20
<b>Video Surveillance</b>		
1080p HD	185m (606ft.)	185m (606ft.)
4K UHD	185m (606ft.)	185m (606ft.)
<b>PoE</b>		
Type 1 – 15.4W	185m (606 ft.)	185m (606 ft.)
Type 2 – 30W	150m (492 ft.)	150m (492 ft.)
Type 3 – 60W	100m (328 ft.)	100m (328 ft.)
Type 4 – 100W	100m (328 ft.)	100m (328 ft.)
Max bundle size (0.5 Amps at 45°C)	72 cables	90 cables
<b>HDBaseT</b>		
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.)
<b>Wireless</b>		
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



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