

UTG SOLUTIONS BRIEF BELDEN



OPTICAL FIBER

The Utility Grade INFRASTRUCTURE (UTGSM) program has been developed alongside world-class global Technology Alliance PartnersSM. These UTG-rated components from Belden enable you to support the rapid evolution of technology in today's building environments.

PRODUCT OVERVIEW

Belden's UTG solutions provide a common infrastructure platform optimized for operational technology and high-performance applications. The below fiber recommendations complement a full UTG solution.

As part of the UTG connected architecture, the following convergence zones identify the most common environments fiber will be utilized within and around the building:

INTER-BUILDING | INTRA-BUILDING | EXTENDED-EDGE

CONSTRUCTION AND PERFORMANCE

INTER-BUILDING CONVERGENCE ZONE (BUILDING-TO-BUILDLING)

Utilized to connect two or more buildings together, it is a recommended UTG best practice to install single-mode optical fiber for interbuilding environments.

UTG OPTICAL FIBER TIER 1 CRITICAL

• I/O mini-distribution plenum

FEATURES AND BENEFITS

- Offers the high-bandwidth and low-loss performance necessary for longer links
- Simplifies the design process and minimizes the risk of overcomplicating the solution
- Eliminates the 50-foot transition from OSP cable to plenum

	0\$2	OM3	0М4
I/O Mini- distribution Plenum	FDSM072P2	FD3M072P2	FD4M072P2
	FDSM096P2	FD3M096P2	FD4M096P2
	FDSM144P2	FD3M144P2	FD4M144P2

UTG OPTICAL FIBER TIER 2 ESSENTIAL

• FiberExpress distribution cable

FEATURES AND BENEFITS

- 900µm tight-buffered fibers fast and robust field termination
- · All-dielectric designs eliminates the need for grounding
- Interlocking armor removes the need for conduit
- Environmental protection UV, moisture and fungus resistant

I/O	0 \$2	OM3	OM4	
All Dielectric	FDSD072PK	FD3D072PK	FD4D072PK	
	FDSD096PK	FD3D096PK	FD4D096PK	
	FDSD144PK	FD3D144PK	FD4D144PK	
AIA	FDSD072AK	FD3D072AK	FD4D072AK	
	FDSD096AK	FD3D096AK	FD4D096AK	
	FDSD144AK	FD3D144AK	FD4D144AK	
Grounding Kit for Interlock Armor				
Item Number		AX101099		



Utility Grade INFRASTRUCTURE by Anixter



INTRA-BUILDING CONVERGENCE ZONE (FLOOR-TO-FLOOR)

Utilized to connect two or more areas or floors within a building, it is a recommended UTG best practice to install laser-optimized multimode optical fiber for intrabuilding environments.

UTG OPTICAL FIBER TIER 1 CRITICAL

• Indoor mini-distribution plenum

FEATURES AND BENEFITS

- Offers the best balance of installation, bandwidth and loss parameters while minimizing cost of installation
- Best suited for within building and connected ceiling applications
- FiberExpress mini-distribution cable can support high-performance applications up to 400G

	0 \$2	OM3	OM4
Indoor Mini-distribution Plenum	FISM012P2	FI3M012P2	FI4M012P2
	FISM024P1	FI3M024P1	FI4M024P1
	FISM036P1	FI3M036P1	FI4M036P1
	FISM048P1	FI3M048P1	FI4M048P1
	FISM072P1	FI3M072P1	FI4M072P1
	FISM144P1	FI3M144P1	FI4M144P1

UTG OPTICAL FIBER TIER 2 ESSENTIAL

· All-dielectric indoor

FEATURES AND BENEFITS

- 900µm tight-buffered fibers fast and robust field termination
- · All-dielectric designs eliminates the need for grounding

	0 \$2	OM3	OM4
All-dielectric Indoor	FISD012P9	FI3D012P9	FI4D012P9
	FISD024P9	FI3D024P9	FI4D024P9
	FISD048PK	FI3D048PK	FI4D048PK

EXTENDED-EDGE CONVERGENCE ZONE (POWERED)

Utilized to extend the distances of certain devices on the network beyond the building, it is a recommended UTG best practice to install combined optical fibers for connectivity and copper conductors for power as a common cable.

UTG OPTICAL FIBER TIER 1 CRITICAL

48V FX hybrid cable

FEATURES AND BENEFITS

- Power and data hybrid cables allow customers to bring power and data to low-voltage applications like security (cameras, sensors, wireless access points, phones, monitors, etc.)
- Flexibility can be used for indoor (plenum and riser) and indoor/ outdoor (plenum and riser) applications
- Fewer cables to stock hybrid construction means that you can reduce your inventory by stocking and managing one cable versus two
- Single cable pull for time savings you only need to pull a single cable versus two cables, reducing labor costs and installation time

			Belden Part	Number		
# Conduc- tors x AWG	OM3		OM4		0S2	
	Breakout 3mm (2F)	Distribution (6F)	Breakout 3mm (2F)	Distribution (6F)	Breakout 3mm (2F)	Distribution (6F)
			Indoor Plenum			
2 x 14	HI3B-	HI3D-	HI4B-	HI4D-	HISB-	HISD-
	0020214PC	0020214PJ	0020214PC	0020214PJ	0020214PC	0020214PJ
	HI3B-	HI3D-	HI4B-	HI4D-	HISB-	HISD-
	0020216PC	0020216PJ	0020216PC	0020216PJ	0020216PC	0020216PJ
	HI3B-	HI3D-	HI4B-	HI4D-	HISB-	HISD-
	0020218PC	0020218PJ	0020218PC	0020218PJ	0020218PC	0020218PJ
		Inc	loor/Outdoor Plenu	m		
2 x 14	HD3B-	HD-	HD4B-	HD-	HDSB-	HDSD-
	0020214PC	3D0020214PJ	0020214PC	4D0020214PJ	0020214PC	0020214PJ
2 x 16	HD3B-	HD-	HD4B-	HD-	HDSB-	HDSD-
	0020216PC	3D0020216PJ	0020216PC	4D0020216PJ	0020216PC	0020216PJ
2 x 18	HD3B-	HD-	HD4B-	HD-	HDSB-	HDSD-
	0020218PC	3D0020218PJ	0020218PC	4D0020218PJ	0020218PC	0020218PJ



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