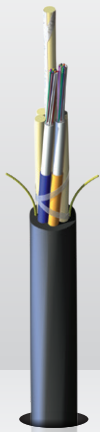
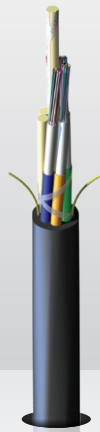


# MiniXtend® fiber optical cables

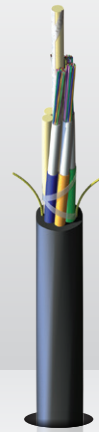
## Flame retardant fiber optical cables



**66000024**  
U-DQ(ZN)H MiniXtend  
FR Cable, LT, 24 fibers



**66000050**  
U-DQ(ZN)H MiniXtend  
FR Cable, LT, 48 fibers



**66000096**  
U-DQ(ZN)H MiniXtend  
FR Cable, LT, 96 fibers

- Indoor/outdoor universal cables, typically used when limited space is available
- With the dual layer tube design and low friction sheath MiniXtend cables are optimised for blowing and best used in mini or micro ducts
- The buffer tubes and fiber in each tube are colour-coded to Telcordia-Bellcore for quick and easy identification

- Designed with increased resistance against moisture or chemicals
- Additional flame retardant features enable indoor/outdoor deployments along ducts or pipelines
- Reduced outer cable diameter for high fibre density in microduct systems
- All-dielectric cable construction, no need for grounding or bonding
- All MiniXtend® cables are RoHS compliant

Parameter	Wavelength [nm]	U-DQ(ZN)H MiniXtend FR Cable, LT, 24 fibers	U-DQ(ZN)H MiniXtend FR Cable, LT, 48 fibers	U-DQ(ZN)H MiniXtend FR Cable, LT, 96 fibers
Application		Blowing installation in miniduct systems		
Cable type		Loose Tube		
Product type		Dielectric		
Flame rating		LSZH™/FRNC		
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)		U-DQ(ZN)H		
Reaction to fire		Eca		
Fibre Category		SMF-28® Ultra 200 Optical Fiber		
Installation temperature range [°C]		-5 – 50		
Operation/storage temperature range [°C]		-40 – 70		
Central element		Dielectric with swellable element		
Fibre count		24	48	96
Fibres per tube		12	12	24
Number of tube positions		6	6	6
Number of active tubes		2	4	4
Buffer tube colour		Blue, orange	Blue, orange, green, brown	Blue, orange, green, brown
Buffer tube diameter [mm]		1,7	1,7	1,7
Number of filling elements		4	2	2
Number of ripcords		2	2	2
Outer jacket material		Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material		
Outer jacket colour		Black	Black	Black
Outer jacket nominal thickness [mm]		1,2	1,2	1,2
Nominal Outer Diameter [mm]		7,8	7,8	7,8
Weight [kg/km]		51,74	57,3	60,36
Min. bend radius installation/operation [mm]		78/117	78/117	78/117
Max. tensile strength, short-term [N]		1.000	1.000	1.000
Crush resistance (reversible) [N/10 cm]		1.000	1.000	1.000
Fire Load [MJ/m]		1.475	1.413	1.413
Fiber name		SMF-28® Ultra 242 Optical Fiber	SMF-28® Ultra 242 Optical Fiber	SMF-28® Ultra 200 Optical Fiber
Mode-Field Diameter at 1310 nm [µm]		9,2	9,2	9,2
Fibre code		Z	Z	Z
Coating/cladding diameter [µm]		242/125	242/125	200/125
Maximum/typical attenuation [dB/km]	1310	0,34/0,32	0,34/0,32	0,34/0,32
	1383	0,34/0,32	0,34/0,32	0,34/0,32
	1550	0,20/0,18	0,20/0,18	0,20/0,18
Serial 1 gigabit ethernet [m]		5.000/-	5.000/-	5.000/-
Serial 10 gigabit ethernet [m]		10.000/40.000	10.000/40.000	10.000/40.000
Cable cutoff wavelength [nm]		1260	1260	1260
Dispersion [ps/(nm*km)]	1285 – 1300	≤ 3,5	≤ 3,5	≤ 3,5
	1550	≤ 18	≤ 18	≤ 18
PMD Link Design Value [ps./√km]		≤ 0,04	≤ 0,04	≤ 0,04
PMD maximum individual fibre [ps./√km]		≤ 0,1	≤ 0,1	≤ 0,1
Fibre compliance		ITU-T G.652.D and ITU-T G.657.A1		
Order No.		66000024	66000050	66000096