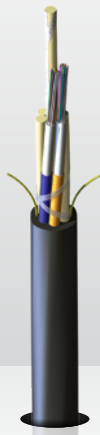
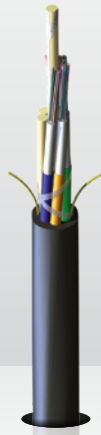


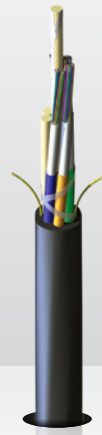
MiniXtend® universal cable



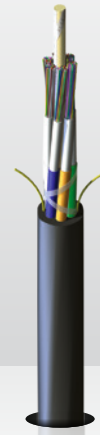
66000024
U-DQ(ZN)H-2x12-
E9/125-SMF-28-Ultra



66000050
U-DQ(ZN)H-4x12-
E9/125-SMF-28-Ultra



66000096
U-DQ(ZN)H-4x24-
E9/125-SMF-28-Ultra



66000144
U-DQ(ZN)H-6x24-
E9/125-SMF-28-Ultra

- 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-2x12- E9/125-SMF-28-Ultra	U-DQ(ZN)H-4x12- E9/125-SMF-28-Ultra	U-DQ(ZN)H-4x24- E9/125-SMF-28-Ultra	U-DQ(ZN)H-6x24- E9/125-SMF-28-Ultra
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			
Fiber 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			
Fiber count		24	48	96	144
Fibers per tube		12	12	24	24
Number of tube positions		6	6	6	6
Number of active tubes		2	4	4	6
Buffer tube colour		Blue, orange	Blue, orange, green, brown	Blue, orange, green, brown	Blue, orange, green, brown, gray, white
Buffer tube diameter [mm]		1,7	1,7	1,7	1,7
Number of filling elements		4	2	2	–
Number of ripcords		2	2	2	2
Outer sheath material		Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material			
Outer sheath colour		Black	Black	Black	Black
Outer sheath nominal thickness [mm]		1,2	1,2	1,2	1,2
Nominal outer diameter [mm]		7,8	7,8	7,8	7,8
Weight [kg/km]		51,74	57,3	60,36	67,48
Min. bend radius installation/operation [mm]		78/117	78/117	78/117	78/117
Max. tensile strength, short-term [N]		1.000	1.000	1.000	1.000
Crush resistance (reversible) [N/10 cm]		1.000	1.000	1.000	1.000
Fire Load [MJ/m]		1.475	1.413	1.413	1.357
Fiber name		SMF-28® Ultra 242 Optical Fiber		SMF-28® Ultra 200 Optical Fiber	
Mode field diameter [µm]	1310	9,2	9,2	9,2	9,2
Fiber code		Z	Z	Z	Z
Coating/cladding diameter [µm]		242/125	242/125	200/125	200/125
Maximum/typical attenuation [dB/km]	1310	0,34/0,32	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	0,34/0,32
	1550	0,20/0,18	0,20/0,18	0,20/0,18	0,20/0,18
Serial 1 gigabit ethernet [m]		5.000/-	5.000/-	5.000/-	5.000/-
Serial 10 gigabit ethernet [m]		10.000/40.000	10.000/40.000	10.000/40.000	10.000/40.000
Cable cutoff wavelength [nm]		1260	1260	1260	1260
Dispersion [ps/(nm*km)]	1285 – 1300	≤ 3,5	≤ 3,5	≤ 3,5	≤ 3,5
	1550	≤ 18	≤ 18	≤ 18	≤ 18
PMD Link Design Value [ps./√km]		≤ 0,04	≤ 0,04	≤ 0,04	≤ 0,04
PMD maximum individual fiber [ps./√km]		≤ 0,1	≤ 0,1	≤ 0,1	≤ 0,1
Fiber compliance		ITU-T G.652.D and ITU-T G.657.A1			
Order No.		66000024	66000050	66000096	66000144