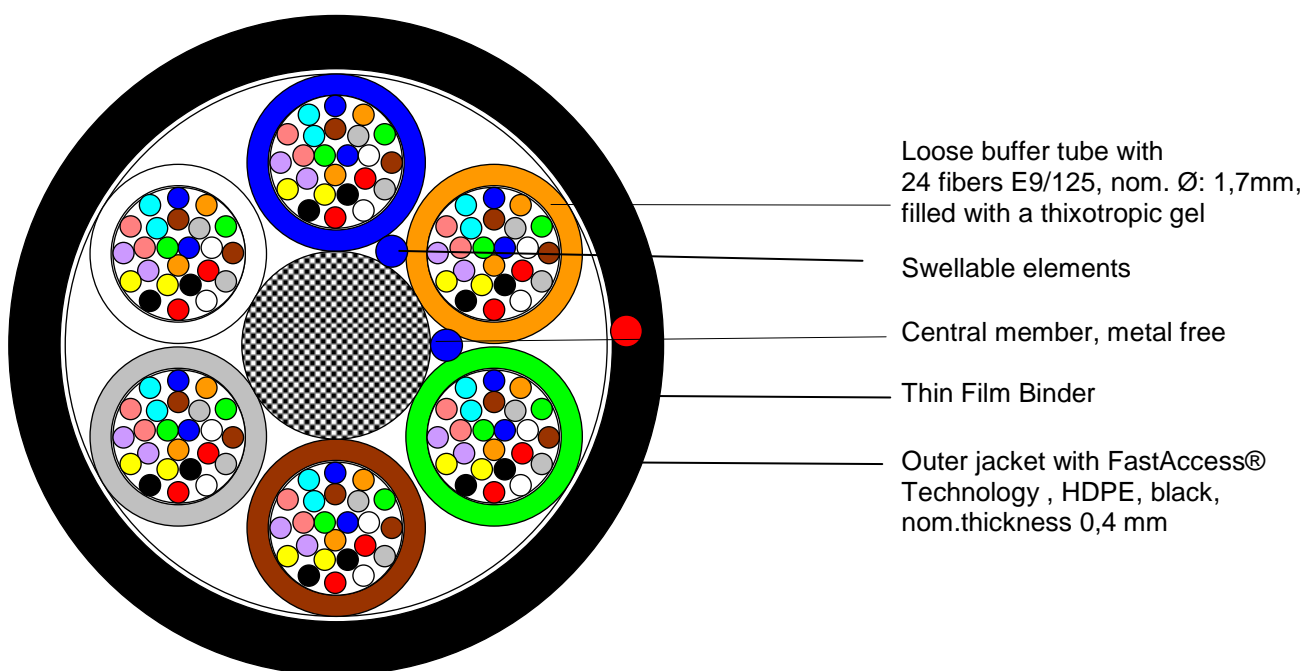


## Data sheet

### MiniXtend<sup>™</sup> HD – Cable

# Stranded loose tube MiniXtend<sup>™</sup> HD cable

with 144 Corning<sup>®</sup> 200µm single-mode fibers E9/125 SMF-28<sup>®</sup> ULTRA 200 with low-loss and improved bend performance technologies and FastAccess<sup>®</sup> Technology



Principle drawing

**A-DQ(ZN)2Y 6x24 E9U200/125 0.34F3.5 + 0.20H18 LG**

### Design and special properties

- Cable for installation into miniduct systems, suitable for Metro, Access or FTTx implementations
- Incremental capacity installation capability results in reduced capital expenditure
- Extremely compact; small diameter; low weight cables
- Reduced duct utilisation and easy installation, optimized cable stiffness
- Fully dielectric construction requires no grounding
- Stranded loose tube structure
- The used Corning<sup>®</sup> 200µm single-mode fiber SMF-28<sup>®</sup> ULTRA 200 optical fiber is an ITU-T G.652.D compliant optical fiber with Corning's enhanced low loss and bend technologies. This full-spectrum fiber has bend performance that exceeds the ITU-T G.657.A1 standard and still splices the same as the installed base of standard SM fibers such as SMF28e+<sup>®</sup>
- Cable design acc. to Corning spec
- Tube and fiber color acc. Telcordia standard

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## Data sheet

### MiniXtend<sup>™</sup> HD – Cable

#### Coloring

Fibers 1-12: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise  
 Fibers 13-24: blue, orange, green, brown, grey, white, red, natural, yellow, violet, pink, turquoise with 1 ring  
 Tubes: blue, orange, green, brown, grey, white, red, black

Jacket: black

Cable printing: Meter + Handset + Sine + CORNING + YEAR +  
 MINIXTEND (R) CABLE WITH BINDERLESS FASTACCESS  
 TECHNOLOGY (TM) 6 X 24 E9U200 LT1.7

Method: Laser

#### Characteristics of fibers 200µm SMF-28<sup>®</sup> ULTRA200 (low loss and bend improved fiber)

Optical and mechanical:

Mode field diameter at 1310 nm	[µm]	9.2 ± 0.4
Cladding diameter	[µm]	125.0 ± 0.7
Coating diameter	[µm]	200 ± 5
Attenuation at 1310 nm (max/typical)	[dB/km]	≤ 0.34 / ≤ 0.32
Attenuation at 1550 nm (max/typical)	[dB/km]	≤ 0.20 / ≤ 0.18
Attenuation at 1383 nm (max/typical)	[dB/km]	≤ 0.34 / ≤ 0.32
Dispersion in the range 1285 to 1330 nm	[ps/(nm*km)]	≤ 3.5
Max.Dispersion at 1550 nm	[ps/(nm*km)]	≤ 18
Cable cutoff Wavelength ( $\lambda_{cc}$ )	[nm]	≤ 1260
PMD cabled ( link value)	Ps/√	≤ 0,04*
Max.PMD cabled (single fiber)	Ps/√	≤ 0,1

\*) Complies with IEC 60794-3:2001, Section 5.5, Method 1 ( m=20,Q=0,01%)

The fibers is fully compliant with ITU-T G.652.D standard and exceeds ITU-T G.657.A1 standard

#### Technical cable characteristics

Mechanical and environmental:

Max. tensile load during installation	[N]	900
Crush	[N/10 cm]	1000
Bending radius, permanent	[mm]	10xD
Bending radius, during installation	[mm]	15xD
Impact (No. of impacts 3, hammer radius R=300 mm)	[Nm]	3
Temperature range	Installation [°C]	-5... +50
	Operation [°C]	-30... +70
	Transport & Storage [°C]	-40... +70
Water penetration (0.1 bar / 24 h)	[m]	≤ 1

Cable type	No. of fibers	Fibers per tube	No. of tubes	Outer Ø [mm]	Weight [kg/km]
6x24	144	24	6	6,3 ± 0,3	36

#### Delivery length

Standard delivery length up to 6 km

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