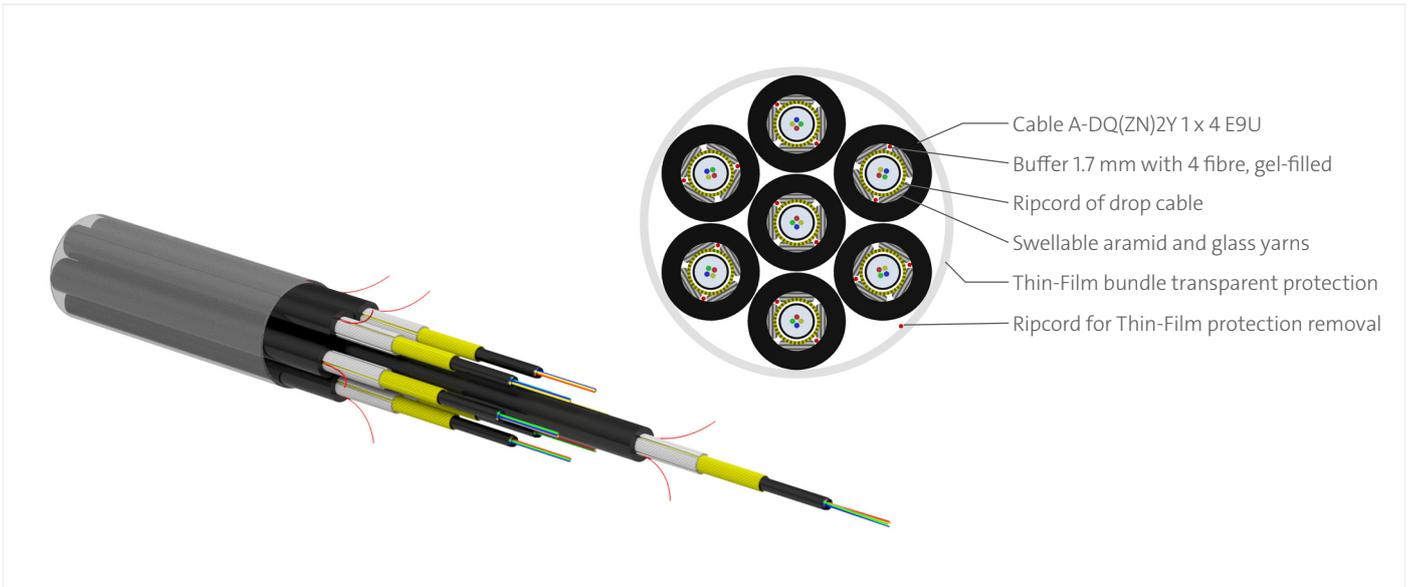


Thin-Film Bundled Drop™ (TFBD) Cable

7x A-DQ(ZN)2Y 1x4 or 1x12 SMF-28® Ultra



Thin-Film Drop Bundle, A-DQ(ZN)2Y 7x4 SMF-28 Ultra

Thin-Film Bundled Drop™ (TFBD) Cable is a robust product that combines durability and reliability in the access network. Used in combination with installation technologies such as trenching it can significantly reduce total costs while increasing deployment speed when connecting customers in FTTH rollouts. The solution has been developed for deployments in low-dense, respectively rural areas.

The bundle of seven cables is installed in one step alongside the road (direct buried). Opening the thin-film releases individual drop cables to be run and connected at the customer's home. Each 4-fibre drop provides necessary protection for the fibres which are run to the customer. Printing on individual cables and the thin-film bundle allows identification of each drop cable.

Features and Benefits

- Use to connect buildings in the access networks without the need for closures (e.g., FTTx expansion)
- TFBD for direct burial in stone-free earth on longitudinal routes
- Longitudinal watertightness of the individual cables due to swellable construction elements
- Metal-free cable construction, no grounding or potential problems
- Corning® SMF-28® Ultra single-mode fibre E9/125 is an ITU-T G652.D fibre with Corning's "low-loss" and bend-optimization technology. This full-spectrum fibre exceeds the bend requirement of ITU-T G657.A1 and is fully compatible with any standard single-mode fibre.
- Fibre colors code in accordance to Telcordia
- Dielectric design eliminates bonding

Specifications

Mechanical Specifications

Thin-Film Bundled Drop™	2,000 N*
Max. tensile strength for installation (single drop cable)	1,000 N
Min. bend radius installation (single drop cable)	20xD
Min. bend radius operation (single drop cable)	15xD
Nominal outer diameter of bundle	7x1x4 F or 7x1x12 F 14.5 mm
Bundle weight	7x1x4 F, 142 kg/km, 7x1x12 F 150 kg/km

Cable Design

Cable marking	Meter – T – E – Handset – 7 x A-DQ(ZN)2Y 1x4 E9U - Corning 01 - Month/Year Meter – T – E – Handset – 7 x A-DQ(ZN)2Y 1x12 E9U - Corning 01 - Month/Year
Fibre count	28 (7x1x4) or 84 (7x1x12)
Number of ripcords	1
Outer jacket material	Polyethylene (PE)
Outer jacket minimum thickness	0.35 mm
Number of active tubes	7
Number of fibre bundles	7
Cable marking method	Laser printing
Fibre colouring (drop cable)	Blue, orange, green, brown, (grey, white, red, black, yellow, violet, pink, aqua)
Fibres per tube (drop cable)	4 or 12

General Specifications

Fibre category	Corning® SMF-28®
Environment	Outdoor
Product type	Drop cable bundle
Product type	Dielectric
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	A-DQ(ZN)2Y
Application	Direct Buried, General Purpose Horizontal customer drop cables

TFBD

Catalog number	Kabeltyp TFBD	Number of fibres	Number of cables	Cable weight ca.	Cable OD ca.	Min. bending radius (operation)	Min. bending radius (installation)
028ZB4-D3120A20	7x A-DQ(ZN)2Y 1 x 4	28	7	142 kg/km	13.8 mm	15 x D	20 x D
084ZB4-D3120A20	7x A-DQ(ZN)2Y 1 x 12	84	7	150 kg/km	14.5 mm	15 x D	20 x D

*Pulling support for each drop cable needs to effectively been included by using pulling socks or similar

Ordering Information

Maximum delivery length	2000 m
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Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Optical Characteristics

Fibre name	Corning® SMF-28® Ultra 242 Optical Fibre
Fibre code	Z
Fibre type	Single-mode
Mode-Field Diameter at 1310 nm	9.2 µm
Coating diameter	242 µm
Cladding diameter	125 µm
Wavelengths	1310 nm / 1383 nm / 1550 nm
Dispersion @ 1550 nm	18 nm
Dispersion in the range 1285 to 1330 nm	3.5 nm
Maximum attenuation	0.34 dB/km / 0.34 dB/km / 0.20 dB/km
Typical attenuation	0.32 dB/km / 0.32 dB/km / 0.18 dB/km
Cable cutoff wavelength	1260 nm
PMD link design value	0.04 ps/(nm*km)
PMD maximum individual fibre	0.1 ps/(nm*km)
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1

CORNING

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