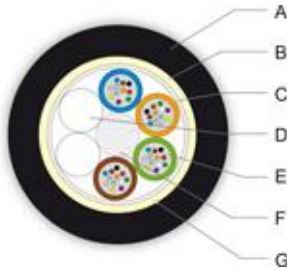


CORNING

A-DQ(ZN)2Y 4x12



- A. PE outer jacket
- B. Aramid yarn strength members
- C. Swellable elements
- D. Filling element
- E. Buffer tube, filled with 12 fibers
- F. Central element, metal-free
- G. Rip cord

| | |
|-------------------------|-----------------------|
| Order Number | FWLT01-S0048-U001 |
| Type Designation | A-DQ(ZN)2Y 4x12 |
| Fiber Class | 9 μm , OS2 |
| Fiber Count | 48 (4x12) |
| Halogen Free | No |
| Color | black |
| Delivery Length | up to 4000 m |

Features

- metal-free cable, hence no ground loop problems
- PE jacket, UV and microbe resistant
- Dry cable core with swellable elements
- Water blocking according to IEC 60794-1-2-F5
- Can be directly buried and installed in ducts
- Thin and robust cable
- Preassembled length available
- Telcordia (Bellcore) color standard for fibers and tubes

Temperature Range

| | |
|---------------------------|--------------|
| Installation and assembly | -5 °C 50 °C |
| Operation | -30 °C 70 °C |
| Transport and Storage | -40 °C 70 °C |

Mechanical Characteristics Cable

| | |
|---|-------------|
| Fiber count | 48 (4x12) |
| Outer Ø | 11.2 mm |
| Weight | 115 kg/km |
| Min. bending radius during installation | ≥ 170 mm |
| Min. bend radius in service | 140 mm |
| Tensile Strength | ≤ 2700 N |
| Crush Resistance | 2000 N/10cm |
| Water penetration (0.1bar/24 h) | ≤ 3 N |

Design (Fiber and Buffer Tube)

| | |
|----------------------|--|
| Fiber coloring | blue, orange, green, brown, gray, white, red, black, yellow, violet, pink, turquoise |
| Buffer tube coloring | blue, orange, green, brown |
| Cable marking | meter - handset - double sinus - CORNING - year |

Design (Cable)

- Dielectric central element
- Stranded buffer tubes, filled with thixotropic filling compound
- Swellable
- PE outer
- Jacket color: black

Fiber Features

- The singlemode fibers are fully compliant to ITU-T G.652 categories A, B, C and D (reduced OH-Peak) and show a minimum of attenuation throughout the range from 1285 nm to 1625 nm

Optical Characteristics

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|---|----------------------|
| Fiber type | E9/125 SMF28e+ (OS2) |
| Mode field diameter at 1310 nm | 9.2 µm ± 0.4 |
| Attenuation at 1310 nm | ≤ 0.36 dB/km |
| Attenuation at 1550 nm | ≤ 0.22 dB/km |
| Attenuation at 1383 nm | ≤ 0.36 dB/km |
| Dispersion in the range 1285 to 1330 nm | ≤ 3.5 ps / (nm * km) |
| Dispersion @ 1550 nm | ≤ 18 ps / (nm * km) |
| Cable cutoff wavelength | ≤ 1260 µm |

Fiber meets or exceeds standards: TIA/EIA 492-CAAB, IEC 60793-2-50 Type B1.3, ISO/IEC 11801 OS1/OS2, Telcordia GR20.

Chemical Characteristics

| | |
|------|---|
| RoHS | Free of hazardous substances according to RoHS 2002/95/EG |
|------|---|