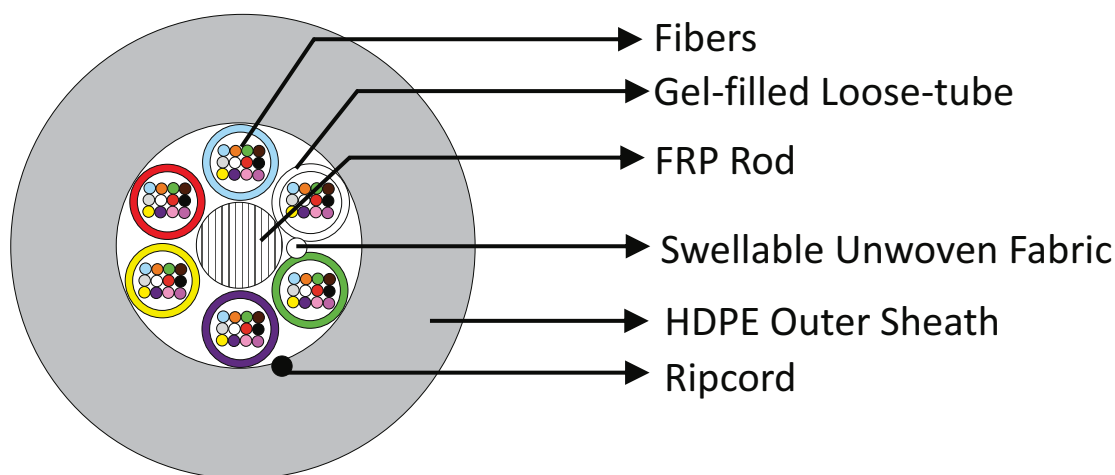


## Product Information

AF10: Outdoor micro cable, gel-filled, dry core, MC A-DQ(ZN)2Y 1000N

6÷144 single-mode optical fibers; loose-tube structure; 6, 12, 24 fibers per tube  $\varnothing$  1.5÷2.2 mm in diameter; Outer sheath: Black HDPE resistant to UV radiation; to be installed in microduct systems using Air-Blown technique.

PI\_102681X5.YM\_01.15



## Application

Outdoor use; for microduct systems; all-dielectric. Designed to be used in vast telecommunication networks, FTTH access networks, CATV, and city surveillance systems

## Standards

EN 187 000  
IEC 60794-3, PN EN 60794-3  
PN EN 60793-1-1  
IEC 60794-3-10  
IEC 60794-3-12  
ISO 11801 2-nd edition  
PN EN 50173-1  
PN EN 41003  
ITU-T G.652D  
ZN-14OPL-005-2

## Structure

|                                     |   |
|-------------------------------------|---|
| <b>Central strength member</b>      | $\varnothing$ 1.55÷2.4 mm – dielectric FRP rod                |
| <b>Loose tube</b>                   | $\varnothing$ 1.5÷2.2mm gel-filled; 6, 12, 24 fibers per tube |
| <b>Water resistance</b>             | Cable core protected with water swellable nonwoven fabric     |
| <b>Cord for slitting the sheath</b> | Ripcord - polyester cord for easy sheath slitting             |
| <b>Cable sheath</b>                 | Thickness: 0.5 mm; black HDPE                                 |

## Product Information

AF10: Outdoor micro cable, gel-filled, dry core, MC A-DQ(ZN)2Y 1000N

6÷144 single-mode optical fibers; loose-tube structure; 6, 12, 24 fibers per tube Ø 1.5÷2.2 mm in diameter; Outer sheath: Black HDPE resistant to UV radiation; to be installed in microduct systems using Air-Blown technique.

PI\_102681X5.YM\_01.15

## Mechanical Properties

| Property                        | Value   |
|---------------------------------|---|
| <b>Maximum tensile strength</b> | 12-72J Cables: 1500N; 96J Cable: 2500N; 144J Cable: 3000N |
| <b>Temperature range</b>        | Operation: -40°C +70°C                                    |
|                                 | Installation: -10°C +50°C                                 |
|                                 | Storage: -40°C +70°C                                      |
| <b>Minimum bend radius</b>      | Short term: 15 x D  |
|                                 | Long term: 15 x D   |
| <b>Color of fibers*</b>         | Color   |
|                                 | RE GR BL YE WH GR BR VIO TUR BL OR PI                     |
|                                 | RE GR BL YE WH GR BR VIO TUR BL OR PI                     |
|                                 | Fibers 13÷24 striped every 50 mm                          |
| <b>Color of tubes*</b>          | RE GR BL YE WH GR BR VIO TUR BL OR PI                     |

\*There is a possibility of Customer's own choice of colors of fibers and tubes.

## Transmission Parameters

| Parametr                              |                |
|---------------------------------------|----------------|
| Fibre type                            | G.652D (OS2)   |
| Attenuation for 1310 nm wave          | ≤ 0.35 dB/km   |
| Attenuation for 1550 nm wave          | ≤ 0.22 dB/km   |
| Attenuation for 1383 nm (± 3 nm) wave | ≤ 0.35 dB/km   |
| Attenuation for 1625 nm wave          | ≤ 0.25 dB/km   |
| Cut-off wavelength                    | ≤ 1260 nm      |
| Chromatic dispersion 1285 – 1330 nm   | ≤ 3.5 ps/nm/km |
| Chromatic dispersion 1550 nm          | ≤ 18 ps/nm/km  |
| Chromatic dispersion 1625 nm          | ≤ 22 ps/nm/km  |
| Fibre cladding diameter               | 125.0 ± 0.7 μm |
| Sheath diameter, colourless           | 245.0 ± 5 μm   |
| Mode field diameter: 1310 nm          | 9.2 ± 0.4 μm   |
| Mode field diameter: 1550 nm          | 10.4 ± 0.5 μm  |

## Product Information

### AF10: Outdoor micro cable, gel-filled, dry core, MC A-DQ(ZN)2Y 1000N

6÷144 single-mode optical fibers; loose-tube structure; 6, 12, 24 fibers per tube  $\varnothing$  1.5÷2.2 mm in diameter; Outer sheath: Black HDPE resistant to UV radiation; to be installed in microduct systems using Air-Blown technique.

PI\_102681X5.YM\_01.15

| Number of Fibers<br>(Number of Fibers per Tube) | Nominal Cable Diameter | Nominal Cable Weight | Tube Diameter | FRP Rod Diameter | Dedicated Inner Diameter of a Micro Tube (mm) |
|---|------------------------|----------------------|---------------|------------------|---|
| 6J (1x6)  | 5.8 mm                 | 28 kg/km             | 1.5 mm        | 1.55 mm          | minimum 8 mm                                  |
| 12J (1x12)                                      | 5.8 mm                 | 30 kg/km             | 1.5 mm        | 1.55 mm          | minimum 8 mm                                  |
| 24J (2x12)                                      | 5.8 mm                 | 32 kg/km             | 1.5 mm        | 1.55 mm          | minimum 8 mm                                  |
| 48J (4x12)                                      | 5.8 mm                 | 35 kg/km             | 1.5 mm        | 1.55 mm          | minimum 8 mm                                  |
| 72J (6x12)                                      | 5.8 mm                 | 38 kg/km             | 1.5 mm        | 1.55 mm          | minimum 8 mm                                  |
| 96J (8x12)                                      | 6.8 mm                 | 40 kg/km             | 1.5 mm        | 1.55 mm          | minimum 10 mm                                 |
| 144J (6x24)                                     | 7.9 mm                 | 50 kg/km             | 2.2 mm        | 1.55 mm          | minimum 10 mm                                 |

## Ordering information

| Index       | Number of fibres | Product description  |
|-------------|------------------|--|
| 10268135.1M | 6J (1x6)         | Micro cable FO BKT MC A-DQ(ZN)2Y 6E 9/125 1X6E 9/125 1000N AF10    |
| 10268165.1M | 12J (1x12)       | Micro cable FO BKT MC A-DQ(ZN)2Y 12E 9/125 1X12E 9/125 1000N AF10  |
| 10268185.2M | 24J (2x12)       | Micro cable FO BKT MC A-DQ(ZN)2Y 24E 9/125 2X12E 9/125 1000N AF10  |
| 102681B5.4M | 48J (4x12)       | Micro cable FO BKT MC A-DQ(ZN)2Y 48E 9/125 4X12E 9/125 1000N AF10  |
| 102681G5.6M | 72J (6x12)       | Micro cable FO BKT MC A-DQ(ZN)2Y 72E 9/125 6X12E 9/125 1000N AF10  |
| 102681H5.8M | 96J (8x12)       | Micro cable FO BKT MC A-DQ(ZN)2Y 96E 9/125 8X12E 9/125 1000N AF10  |
| 102661J5.6M | 144J (6x24)      | Micro cable FO BKT MC A-DQ(ZN)2Y 144E 9/125 6X24E 9/125 1000N AF10 |