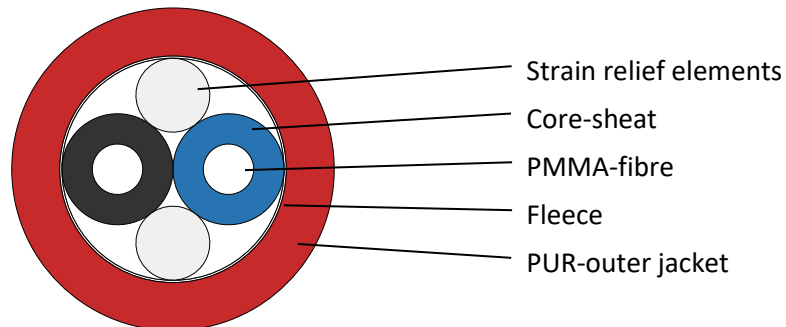


Part No.: **84D00500S**

## FiberConnect® I-V2Y(ZN)11Y 2P980/1000 FLEX

### Profile view:



### Design:

#### Fibre:

- Fibre of polymethylmethacrylate (PMMA); 980/1000 µm step index profile with fluoropolymere cladding (POF), diameter 1.0 mm

#### Core:

- Polyethylen- (PE)-jacket, nominal diameter: 2.2 mm  
colour: black and blue

#### Stranding:

- Two POF, and two strain relief elements (rayon fibres) strandet in one layer
- PETP-fleece

#### Outer jacket:

- Polyurethane (TPE-U) with nominal 0.9 mm wall, colour: red
- Overall diameter: nominal 6.4 mm
- Inkjet-marking black:  
I-V2Y(ZN)11Y 2P980/1000 220A10 FLEX  
(order no.), (reel no.), (meter marking)

### Application/Installation:

- POF-cable for usage in harsh industrial environment
- For flexibel applications with a weakly dynamic stress as well as installations in cable ducts, tubes and on cable racks
- Usable in drag chains
- For direct connector assembly

Part No.: **84D00500S**

**Transmission characteristics:**

- Attenuation  
at 650 nm (Laser), max. 220 dB/km  
at 660 nm (LED), max. 350 dB/km
- Bandwidth min.  
at 650 nm using RML 40 MHz x 100 m
- Numerical aperture 0.485 +/- 0.045

**Mechanical characteristics of cable:**

- Min. bending radius  
short term, during installation accord. to IEC 60794-1-2, E11A  
long term, in use 90 mm  
60 mm
- Tensile strength max.  
short-term accord. to IEC 60794-1-2, E1  
200 N  
long-term 100 N
- Crush resistance max.  
short-term accord. to IEC 60794-1-2, E3  
1000 N/dm  
long-term 100 N/dm
- Repeated bending accord. to IEC 60794-1-2, E6  
30,000 cycles
- Drag chain test Radius 10 x d,  
min. 2 million cycles
- Abrasion resistance accord. to IEC 60794-1-2, E2A  
procedure 502  
min. 5,000 cycles, 1 mm radius of  
needle , 500 g
- Weight approx. 30 kg/km

**Thermal characteristics:**

- Transport and storage - 40 °C to + 80 °C
- Installation - 5 °C to + 50 °C
- During operation - 40 °C to + 80 °C

**Fire performance:**

- Cable is flame-retardant
- Halogen-free acc. to IEC 60754-2
- No emission of corrosive or toxic fumes

**Chemical characteristics:**

- Very good resistance to oil, petrol, acid and leach
- UV-resistance of outer-jacket in according to DIN EN ISO 4892-2,  
Procedure A, UV-application 500 hours

**Standardisation:**

- Multimode fibres category A4a.2 IEC 60793-2-40
- IEC 60794-2-42

Part No.: **84D00500S**

**Notes:**

- Packaging:  
Non-returnable reel

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