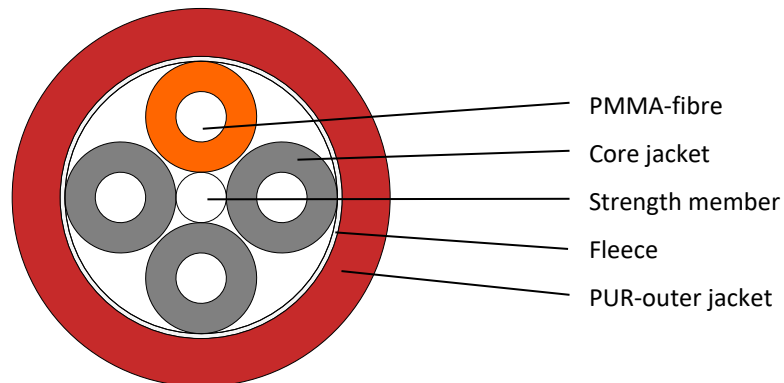


Part No.: **84E00200S**

## FiberConnect® I-V4Y11Y 4P980/1000

### Profile view:



### Design:

#### Fibre:

- Fibre of polymethylmethacrylate (PMMA); 980/1000  $\mu\text{m}$  step index profile with fluoropolymere cladding (POF), diameter 1.0 mm

#### Core:

- Polyamide (PA), nominal diameter: 2.2 mm  
colour: orange and black (black core is marking with letter B, C, D)

#### Stranding:

- 4 POF elements (one orange and three black ) strandet in one layer
- To tie up with Aramid
- PETP-fleece

#### Outer jacket:

- Polyurethane (TPE-U) with nominal 1.0 mm wall, colour: red
- Overall diameter: nominal 7.5 mm
- Inkjet-marking black:  
I-V4Y11Y 4P980/1000 190A10 (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

### Transmission characteristics:

- Attenuation max.  
at 650 nm (Laser) 190 dB/km  
at 660 nm (LED) 290 dB/km
- Bandwidth min.  
at 650 nm using RML 40 MHz x 100 m
- Numerical aperture 0.485 +/- 0.045

Part No.: **84E00200S**

**Mechanical characteristics of cable:**

- Bending radius min.  
short term, during installation      70 mm  
long term, in use                        50 mm
- Tensile strength max.  
short-term                                500 N  
long-term                                 200 N
- Crush resistance max.  
short-term                                1500 N/dm  
long-term                                 150 N/dm
- Repeated bending                    30,000 cycles
- Drag chain test                        10 x d, min. 5 million cycles
- Impact resistance max.              10 impacts, 2 Nm,  
radius 300 mm,  
impact frequency 30 min-1
- Abrasion resistance                  accord. to DIN VDE 0888,  
part 100, procedure 502  
min. 5,000 cycles, 1 mm radius  
of steel needle , 500 g
- Weight                                    approx. 42 kg/km

**Thermal characteristics:**

- Transport and storage                - 40 °C to + 80 °C
- Installation                             + 5 °C to + 50 °C
- During operation                       - 20 °C to + 70 °C

**Fire performance:**

- Cable is flame-retardant
- Halogen-free acc. to IEC 60754-2 A1:1997
- 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

**Notes:**

- Packaging:  
Non-returnable reel

Part No.: **84E00200S**

**Disclaimer:**

FELTEN Wire and Cable Solutions BV reserves the right to make changes to the product described in this specification without prior notice. FELTEN does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.