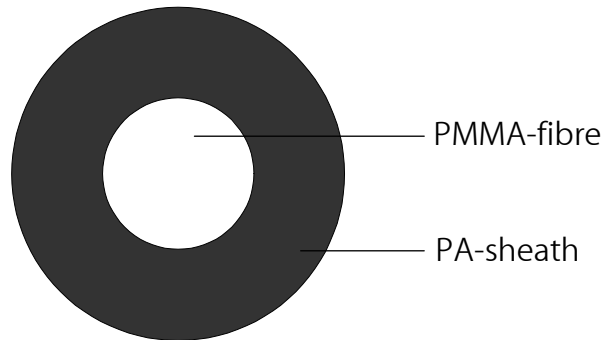


Part No.: **84A00300S000****FiberConnect® V-4Y 1P980/1000 for high voltage application****Profile view:****Design:**Fibre:

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

Sheath:

- Polyamide (PA), nominal diameter: 2.2 mm
colour: black

Application/Installation:

- For applications with a high mechanical demand and flexible applications with small bend radii
- For direct connector assembly

Transmission characteristics:

- Attenuation (at TR = 20 OC)

at 650 nm (Laser)	< 160 dB/km
at 660 nm (LED)	< 230 dB/km
- Bandwidth
bei 650 nm using RML > 40 MHz x 100 m
- Numerical aperture 0.485 +/- 0.045

Mechanical characteristics:

- Bending radius min.

short term during installation	25 mm
long term in use	30 mm
- Tensile strength max.
during installation 10 N
- Crush resistance max. in acc. IEC60794-1-2, E3
25N/dm
(Maximum surface pressure
for fixing 1,25N/cm²)
- Impact resistance accord. to IEC 60794-1-2, E4
max. 0.4 Nm/10 impacts

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- Torsional resistance max. accord. to IEC 60794-1-2, Test E7
20 cycles, $\pm 180^\circ$, 25 cm
Force F=20 N
- Alternate bending accord. to IEC 60794-1-2, E8
min. 50 000 cycles, r = 20 mm
Force F=2 N
- Repeated bending accord. to IEC 60794-1-2, E6
20 cycles, $\pm 180^\circ$
Force F=20 N
- Weight
approx. 4.3 kg/km

Electrical characteristics:

- AC voltage test accord. to DIN VDE 0282-2 Section 2.2 and 2.3
>12 kV/10 cm
- DC voltage test accord. to DIN VDE 0282-2 Section 2.2 and 2.3
min. 5 sec. at 10 kV
- Surface resistance accord. to DIN VDE 0282-2 Section 2.7
>10G Ω
- Surge voltage test accord. to DIN VDE 0432 Part 1
10 peaks at 10 kV/10 cm
- Partial discharge test accord. to DIN VDE 0481 Part 885-2 and -3
Interference level <5pC

Thermal characteristics:

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

Fire performance:

- Halogen free acc. to IEC 60754-2
- PA-Buffer material is flame-retardant accord. UL 94 HB

Chemical characteristics:

- Good resistance to oil, petrol, acid and leach

Standardisation:

- Multimode fibres category A4a.2 IEC 60793-2-40
- IEC 60794-2-41

Notes:

- Packaging:
500 m and 5000m coils