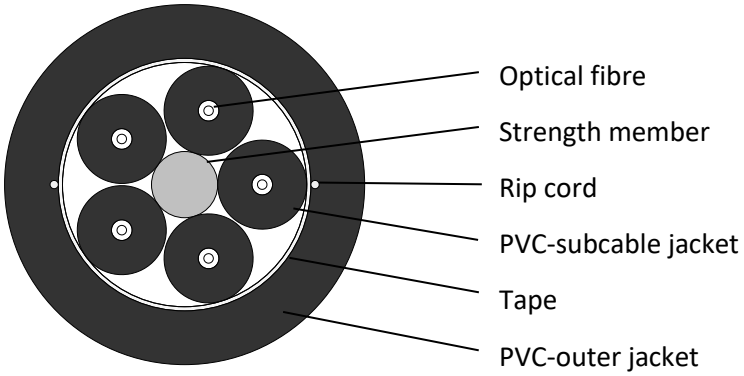
Part No.: **84R05900T**

Fiber**Connect**® **AT-(ZN)VYY 5K200/230 2.2 MM**

Profile view:



Design:

Subcable:

- Polymer cladded optical fibre 200/230 µm (step index)
  with Tefzelbuffer (ETFE)
  Diameter (nominal): 0.5 mm
- Subcable jacket: Polyvinylchloride (PVC),
  wall thickness: approx. 0.85 mm
  Colour of subcables: black
- Diameter: approx. 2.2 mm

Stranding:

- FRP-central strength member in the centre, 5 subcables stranded in one layers
- Tape

Outer jacket:

- Polyvinylchloride (PVC), wall thickness approx. 1.4 mm
  colour: black
- Over all diameter: nominal 8.9 mm
- Two diametrically opposite ripcords
- Inkjet-marking white:
  AT-(ZN)VYY 5K200/230 10A17 / 8B20
  (order no.), (reel no.), (sequential length in metres)

Application/Installation:

- Installation in cable ducts, on cable trays or in cable conduits
- For direct connector assembly

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Transmission characteristics:

- Attenuation (at TR = 20 OC)
  - at 650 nm: < 10 dB/km
  - at 850 nm: < 8 dB/km
- Bandwidth
  - at 650 nm: > 17 MHz x km
  - at 850 nm: > 20 MHz x km
- Numerical aperture: 0.37

Mechanical test (fibre K200/230)**:**

- Proof-test (100 % of each fiber) in according to IEC 60793-1-30
  - min. 150 kpsi (1034 N/mm²)

Mechanical characteristics (subcable)**:**

- Bending radius min. in according to IEC 60794-1-2, E11A
  - dynamic: 50 mm
  - static: 30 mm
- Tensile strength max. in according to IEC 60794-1-2, E1
  - short-term: 10 N
- Crush resistance max. in according to IEC 60794-1-2, E3
  - short-term: 150 N/dm
  - long-term: 25 N/dm

Mechanical characteristics (cable)**:**

- Bending radius min. in according to IEC 60794-1-2, E11A
  - dynamic: 170 mm
  - static: 130 mm
- Tensile strength max. in according to IEC 60794-1-2, E1
  - 300 N
- Crush resistance min. in according to IEC 60794-1-2, E3
  - short-term: 1000 N/dm
- Impact resistance accord. to IEC 60794-1-2, E4
  - max. 1.0 Nm
  - 3 impacts
- Repeated bending accord. to IEC 60794-1-2, E6
  - cycles:20
  - bend:± 90°
  - tensile force:20 N
- Torsion in according to IEC 60794-1-2, E7
  - torsion length:1 m
  - rotation: ± 180°
  - cycle:10
  - tensile force:50 N
- Weight: approx. 80 kg/km

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Electrical characteristics (subcable)**:**

- 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
  > 10 GΩ
- 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 < 5 pC

Thermal properties:

- Transport and storage - 40 °C to + 80 °C
- Installation - 5 °C to + 50 °C
- In use - 40 °C to + 80 °C

Fire performace:

- Flame retardancy acc. to IEC 60332-1-2
- Jacket material (subcable jacket and outer jacket) is flame retardant in acc. to UL94-V0

Chemical characteristics:

- Good resistance to oil, petrol, acid and leach
- UV-resistance

Standardisation:

- Multimode fibres category A3e IEC 60793-2-30

Notes:

- Packaging:
  Non-returnable reel

Disclaimer: