DATA SHEET

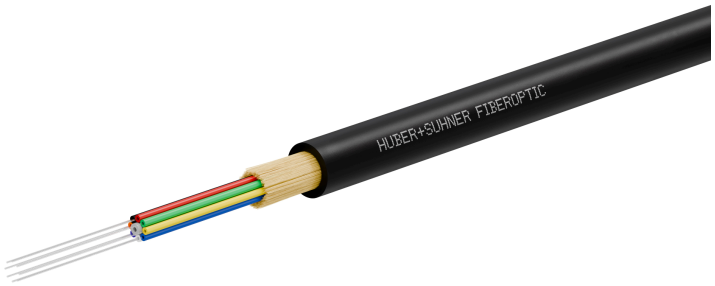
Fiber Optic Cables

# Mobile Field 2x0.9mm Tight Tube Ø 5.6mm TPU

02-.../FSN(ZN)Z-...56

## Properties

- Metal free cable
- Excellent coiling capability
- Easy stripping
- UV-protected, suitable for outdoor use
- High flexibility
- Halogen free and non-corrosive fire gases
- Improved crush resistance
- Large temperature range




Jacket colour

| Construction | | |
|---|---|---|
| Fiber | Quantity: up to | 2 |
| | Type | coloured |
| Strength member | Quantity | 1 pcs |
| | Type | central |
| Tube | Quantity | 2 pcs |
| | Diameter | 0.9 mm |
| Strain relief | Type | aramide yarn |
| | Swellability | Swellable |
| Outer jacket | Material | TPU |
| | Diameter | 5.6mm x 5.6mm |

| Environmental data | | |
|---|---|---|
| Temperature | Standard | IEC 60794-1-2 F1 |
| | During installation | -45 °C ... 85 °C |
| | In service | -60 °C ... 85 °C |
| | In storage | -60 °C ... 85 °C |

| Mechanical data | | |
|---|---|---|
| Weight | | approx. 24 g/m |
| Tensile strength | Standard | IEC 60794-1-2 E1 |
| | During installation | 4000 N |
| | In service | 2000 N |
| Min. bending radius | Standard | IEC 60794-1-2 E11 |
| | During installation | 90 mm |
| | In service | 45 mm |

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| Mechanical data | | |
|---|---|---|
| Repeated bending | Standard | IEC 60794-1-2 E6 |
| | Radius | 50 mm |
| | Weight | 2 kg |
| | Cycles | 20000 |
| Crush resistance | Standard<br>During installation<br>In service | IEC 60794-1-2 E3<br>21000 N/dm<br>6000 N/dm |
| Impact resistance | Standard<br>Energy<br>Cycles | IEC 60794-1-2 E4<br>2.21 J<br>300 |
| Torsion | Standard<br>Cycles<br>Length<br>Angle | IEC 60794-1-2 E7<br>1000<br>1000 mm<br>1440 ° |
| Flexing | Standard<br>Radius<br>Weight<br>Velocity<br>Cycles | IEC 60794-1-21 E8<br>100 mm<br>1 kg<br>1.44 m/s<br>100000 |
| Coiling capability | Standard<br>Length<br>Radius<br>Cycles | HUBER+SUHNER<br>500 m<br>45 mm<br>5 |

| Colours | |
|---|---|
| Fiber | E9, G50 and G62: transparent |
| Tube | According to colour code |
| Standard outer jacket colours | Black |

| Type of fiber | |
|---|---|
| **Fiber type** | **Fiber standard** |
| E9/125 | according to IEC 60793-2-50 B-652.D + ITU-T G.652.D |
| G62,5/125-OM1 | according to IEC 60793-2-10 A1-OM1 |
| G50/125-OM2 | according to IEC 60793-2-10 A1-OM2b + ITU-T G.651.1 |
| G50/125-OM3 | according to IEC 60793-2-10 A1-OM3b |
| G50/125-OM4 | according to IEC 60793-2-10 A1-OM4b |
| E9/125A1 | according to IEC 60793-2-50 B-657.A1 + ITU-T G.657.A1 |

**Fiber colour code**

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H+S Standard | Red | Green | Yellow | Blue | White | Violet | Orange | Black | Grey | Brown | Heather violet | Turquoise |
| DIN | Red | Green | Blue | Yellow | White | Grey | Brown | Violet | Turquoise | Black | Orange | Heather violet |
| TIA | Blue | Orange | Green | Brown | Grey | White | Red | Black | Yellow | Violet | Heather violet | Turquoise |
| IEC | Blue | Yellow | Red | White | Green | Violet | Orange | Grey | Turquoise | Black | Brown | Heather violet |

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## Additional Information

Comment
- For harsh environment applications (military and industrial)
- Extensive tested according IEC, DOD, MIL and NATO standards
- Lightweight and compact construction
- High tensile strength, high abrasion and cut resistance
- Good resistance to a lot of different fluids, hydrolysis and microorganisms
- Crush for SM higher short 21000N/long 600N/dm

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
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