DATA SHEET

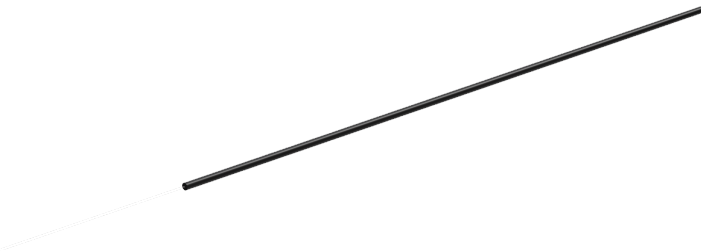
Fiber Optic Cables

# HVDC-Simplex 0.9mm LSFH Ø 2.0mm

01-.../FH-...20

## Properties

- Metal free indoor and outdoor cable
- Aramide free cable construction for low toxicity in case of fire
- Tube can be stripped up to 30mm in one piece
- For high mechanical requirements
- Low smoke, halogen free and self-extinguishing
- Optimized outer-diameter construction



Jacket colour

| Construction | | |
|---|---|---|
| Fiber | Quantity: up to | 1 |
| | Type | coloured |
| Tube | Quantity | 1 pcs |
| | Diameter | 0.9 mm |
| Outer jacket | Material | LSFH |
| | Diameter | 2mm |

| Environmental data | | |
|---|---|---|
| Temperature | Standard | IEC 60794-1-22 F12 |
| | During installation | -25 °C ... 75 °C |
| | In service | -45 °C ... 85 °C |
| | In storage | -45 °C ... 85 °C |
| Flame propagation | Standard<br>Condition | IEC 60332-1-2<br>On a vertical single cable |
| Fire characteristics | Standard<br>Condition<br>Characteristics | IEC 61034-2<br>Cable<br>Smoke density |
| | Standard<br>Condition<br>Characteristics | IEC 60754-1<br>Jacket material<br>Halogen acid gas |
| | Standard<br>Condition<br>Characteristics | IEC 60754-2<br>Jacket material<br>Degree of acidity |

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| Mechanical data | | |
|---|---|---|
| Weight | | approx. 4.5 g/m |
| Tensile strength | Standard | IEC 60794-1-21 E1 |
| | During installation | 100 N |
| | In service | 50 N |
| Min. bending radius | Standard | IEC 60794-1-21 E11 |
| | During installation | 20 mm |
| | In service | 15 mm |
| Repeated bending | Standard | IEC 60794-1-21 E6 |
| | Radius | 30 mm |
| | Weight | 1 kg |
| | Cycles | 100 |
| Crush resistance | Standard<br>During installation<br>In service | IEC 60794-1-21 E3<br>1000 N/dm<br>250 N/dm |
| Impact resistance | Standard<br>Energy<br>Cycles | IEC 60794-1-21 E4<br>0.74 J<br>10 |

| Colours | |
|---|---|
| Fiber | Transparent |
| Tube | E9: YE, G50: OG, G62: BU, OM3: TQ, OM4: HV |
| Standard outer jacket colours | Black |

| Type of fiber | |
|---|---|
| **Fiber type** | **Fiber standard** |
| G62,5/125-OM1 | according to IEC 60793-2-10 A1-OM1 |

**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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