



## Application

For the installation inside buildings, for the building backbone (riser) and horizontal cabling.

## Fire behaviour

|                             |                                            |
|-----------------------------|--------------------------------------------|
| Euroclass                   | Dca                                        |
| Smoke development           | s1                                         |
| Burning droplets            | a1                                         |
| Acidity of combustion gases | d1                                         |
| Flame retardant             | IEC 60332-3-24                             |
| Halogen free                | IEC 60754-1                                |
| Smoke density               | IEC 61034-2                                |
| Fire load                   | see table                                  |
| Corrosivity                 | pH ≥ 4,3; max. 10µS/mm acc. to IEC 60754-2 |

## Construction

|                   |                                                                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction      | I-K(ZN)H                                                                                                                                                                                      |
| Outer jacket      | Ø see table; halogen free, flame retardant (FRNC/LSZH)                                                                                                                                        |
| Weight            | see table                                                                                                                                                                                     |
| Cable marking     | TELEGÄRTNER Mini-Breakout - "Standard cable print" "fire classification"<br>"sequential length in meters"                                                                                     |
| Cable core        | Semi-tight buffer                                                                                                                                                                             |
| Fiber colour code | 1-12: red-natural-yellow-blue-green-violet-brown-black-orange-turquoise-pink-white<br>13-24: red-natural-yellow-blue-green-violet-brown-grey-orange-turquoise-pink-white<br><u>with rings</u> |
| Strain member     | Aramid                                                                                                                                                                                        |

## Mechanical properties

| Fiber count | Outer diameter | Weight   | Bending radii                          | Fire load |
|-------------|----------------|----------|----------------------------------------|-----------|
| 4           | 4,8 mm         | 19 kg/km | Long-term: 48 mm<br>Short-term: 96 mm  | 294 kJ/m  |
| 8           | 5,3 mm         | 25 kg/km | Long-term: 53 mm<br>Short-term: 106 mm | 351 kJ/m  |

|                            |                                 |
|----------------------------|---------------------------------|
| Bending radius long-term   | acc. to IEC 60794-1-21-E11      |
| Bending radius short-term  | acc. to IEC 60794-1-21-E6       |
| Tensile strength           | 400 N acc. to IEC 60794-1-21-E1 |
| Crush resistance           | acc. to IEC 60794-1-21-E3       |
| Operation (long-term)      | 300 N/dm                        |
| Installation (short-term)) | 500 N/dm                        |

## Thermal properties

|                   |                           |
|-------------------|---------------------------|
| Temperature range | acc. to IEC 60794-1-22-F1 |
| Storage           | -30 to +70 °C             |
| Installation      | -5 to +50 °C              |
| Operation         | -30 to +70 °C             |

## Optical properties

See fiber data sheets T00004A0014 (Singlemode), T00004A0015 (Multimode 50 µm) and T00004A0016 (Multimode 62,5 µm)

## Ordering information

| Order no.     | Standard Cable print  | Jacket colour | Barcode EAN13 | Fiber count | Fiber type |
|---------------|-----------------------|---------------|---------------|-------------|------------|
| L08021K1104   | I-K(ZN)H 4G50/125 OM2 | orange        | 4018359237011 | 4           | OM2 BI     |
| L08021B1204   | I-K(ZN)H 4G50/125 OM3 | orange        | 4018359309688 | 4           | OM3 BI     |
| L08021B1208*  | I-K(ZN)H 8G50/125 OM3 | orange        | 4018359309695 | 8           | OM3 BI     |
| L08021C1204   | I-K(ZN)H 4G50/125 OM4 | orange        | 4018359408374 | 4           | OM4 BI     |
| L08021C1208** | I-K(ZN)H 8G50/125 OM4 | orange        | 4018359408381 | 8           | OM4 BI     |
| L08021K1108*  | I-K(ZN)H 8G50/125 OM2 | orange        | 4018359268299 | 8           | OM2 BI     |

The editions of the aforementioned standards by the time of 28.05.2020 are valid.

\*Fire behaviour Euro Class Dca-s1,d2,a1

\*\*Fire behaviour Euro Class Dca-s2,d2,a2