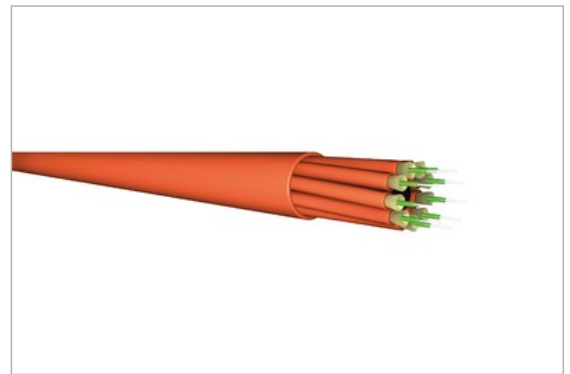


FO Breakout cable 24G50/125µ OM2 LSOH 2,0mm

Description

The standard fiber optic cable types of tde specifically for the assembling of patch and adapter cables, pigtails and trunk cables has been developed. Also the use in FTTD applications inside buildings is possible. The breakout cables have up to 24 individual elements with a 2mm diameter. The overall cable diameter is very slim.

These cables are characterized by very good termination properties. The cable jacket and the secondary coating are easy removable.



Technical Data

Cable Data

| | |
|----------------|-------------------|
| Type | IVHH24G50/125 OM2 |
| Fiber Amount | 24 |
| Construction | 4 x 6 |
| Outer Diameter | 17.4mm |
| Tolerance | ± 0.5mm |

| | |
|-------------------|--|
| Subcable Diameter | 2.0 (± 0.1mm) |
| Strength Members | Aramid yarns |
| Outer Jacket | LSOH (Halogen free, low smoke, flame retardant thermoplastic compound) |
| Jacket Colour | Orange |
| Standard printing | "t d e – IVHH24G50-2.0" and sequential meter marking + Lot number |

Mechanical/ Thermal Characteristics

| | |
|-----------------------|------------------------------|
| Fiber Amount | 24 |
| Weight | 235 kg/km |
| Tensile load | 3200 N |
| Bending radius | 20 x outer diamter |
| Operating temperature | -5°C to + 60°C |
| Fire resistance | Pass (EN 50266, IEC 60332-3) |

FO Breakout cable 24G50/125µ OM2 LSOH 2,0mm

| | |
|-----------------|-------------------------------|
| Halogen content | Free (EN 50267, IEC 60754) |
| Smoke density | Low (EN 50268, IEC 61034-1/2) |

Special features

| | |
|-----------------|--|
| Characteristics | Fiber and aramid yarn free movable in the compound |
| Identification | Numbers, min. every 25cm on subcables |

FO Fiber

| | |
|--------------|-------------------------------------|
| Type | Corning 50/125µ OM2 multimode fiber |
| Manufacturer | Corning |

Optical Specifications

| | |
|--------------------|---|
| Bandwidth | 500 at 850 nm / 500 at 1300 nm |
| Attenuation | At 850 nm max. ≤ 2.5 dB/km At 1300 nm max. ≤ 0.8 dB/km |
| Numerical Aperture | 0.200 ± 0.015 |

Dimensional Specifications

| | |
|--------------------------------|----------------|
| Core Diameter | 50.0 ± 3.0 µm |
| Cladding Diameter | 125.0 ± 2.0 µm |
| Core-Clad Concentricity | ≤ 3.0 µm |
| Cladding Non-Circularity | < 2.0% |
| Core Non-Circularity | ≤ 5.0% |
| Coating Diameter | 245 ± 5 µm |
| Coating-Cladding Concentricity | < 12 µm |

Environmental Specifications

| Environmental Test | Test Condition | Induced Attenuation 850 nm and 1300 nm (dB/km) |
|------------------------------|---------------------------------|--|
| Temperature Dependence | -60°C to +85°C | ≤ 0.20 |
| Temperature Humidity Cycling | -10°C to +85°C and 4% to 98% RH | ≤ 0.20 |
| Operating Temperature Range | -60°C to +85°C | |

FO Breakout cable 24G50/125 μ OM2 LSOH 2,0mm

Mechanical Specifications

| | |
|------------|--|
| Proof Test | The entire fiber length is subjected to a tensile stress ≥ 100 kpsi (0.7 GN/m ²). |
| Length | Fiber lengths available up to 8.8 km/spool. |

Performance Characterizations

| | |
|-------------------------------------|--|
| Refractive Index Difference | 2% |
| Effective Group Index of Refraction | 850 nm: 1.490 1300 nm: 1.486 |
| Fatigue Resistance Parameter (nd) | 20 |
| Coating Strip Force | Dry: 0.6 lbs (2.7N) Wet: 14 days in 23°C water soak: 0.6 lbs (2.7N) |
| Chromatic Dispersion | Zero Dispersion Wavelength (λ_0): 1300 nm $\leq \lambda_0 \leq$ 1320 nm Zero Dispersion Slope (S0): ≤ 0.101 ps/(nm ² *km) |

| Art.-No. | Description |
|-----------------|--|
| L-IVHH04G50-2.0 | FO Breakout cable 4G50/125 μ OM2 LSOH 2,0mm |
| L-IVHH08G50-2.0 | FO Breakout cable 8G50/125 μ OM2 LSOH 2,0mm |
| L-IVHH12G50-2.0 | FO Breakout cable 12G50/125 μ OM2 LSOH 2,0mm |
| L-IVHH24G50-2.0 | FO Breakout cable 24G50/125 μ OM2 LSOH 2,0mm |