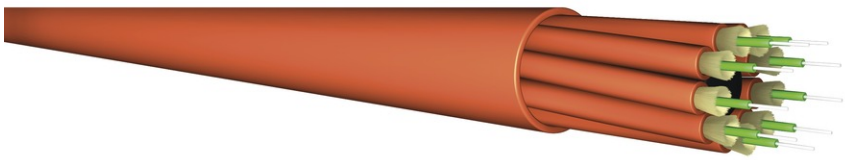
FO Breakout cable 12G50/125µ OM2 LSOH 2,0mm



tde - Standard FO Cables

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.

tde® trans data elektronik GmbH

Headquarter address:
Lingener Str. 2
D-49626 Bippen/Ohrte
Tel.: +49 5435 9511 0
Fax.: +49 5435 9511 32

Sales office address:
Prinz-Friedrich-Karl-Str. 46
D-44135 Dortmund
Tel.: +49 231 8805 61 13
Fax.: +49 231 8805 61 15

info@tde.de | www.tde.de

 © tde GmbH, all rights reserved, errors excepted.

FO Breakout cable 12G50/125µ OM2 LSOH 2,0mm

Technical Data

Cable Data

Type	IVHH12G50/125 OM2
Fiber Amount	12
Construction	3 + 9
Outer Diameter	9.9 mm
Tolerance	± 0.5 mm

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 – IVHH12G50-2.0” and sequential meter marking + Lot number

Mechanical/ Thermal Characteristics

Fiber Amount	12
Weight	90 kg/km
Tensile load	1700 N
Bending radius	20 x outer diameter
Operating temperature	-5°C to + 60°C
Fire resistance	Pass EN 50266, IEC 60332-3
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

© tde GmbH, all rights reserved, errors excepted.

FO Breakout cable 12G50/125µ OM2 LSOH 2,0mm

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

Enviromental 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	

Mechanical Specifications

Proof Test	The entire fiber length is subjected to a tensile stress ≥ 100 kpsi (0.7 GN/m²).
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)
Cromatic Dispersion	Zero Dispersion Wavelength (λ0): 1300 nm ≤λ0 ≤ 1320 nm Zero Dispersion Slope (S0): ≤ 0.101 ps/(nm²*km)

Product variants & accessories

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

© tde GmbH, all rights reserved, errors excepted.