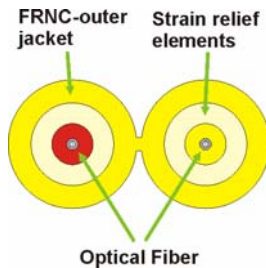
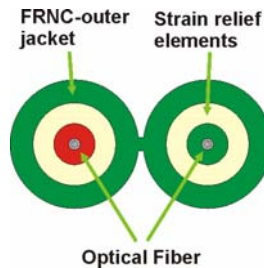


FIBERFOX Duplex Indoor Cable

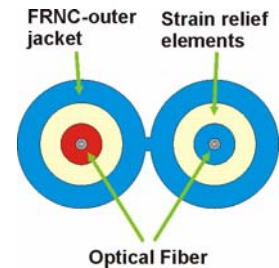
Series I-VH



SM 9/125µm



MM 50/125µm



MM 62,5/125µm

APPLICATION

- Indoor cable for the installation in cable ducts and in tubes
- Patchcords
- For direct connector assembly

DESIGN

Cable core

- Semi-tight buffered fiber, outer diameter 900 µm
- Colour 1st core: red
- Colour 2nd core: yellow (E9/125), green (G50/125), blue (G62,5/125)
- Strain relief elements (aramid)

Outer jacket

- Halogen-free and flame-retardant material with approx. 0,5 mm wall
- Colour: yellow (E9/125), green (G50/125), blue (G62,5/125)
- Outer diameter approx. 2,8 mm x 5,7 mm
- Inkjet-marking black



OPTICAL FIBER

Singlemode E9/125µm 0.36F3.5/0.22H18

Optical fiber

E9/125µm, matched cladding type (conform to CCITT Rec. G. 652 and IEC 60793-2-50 type B1.1)

Optical core
9 μm diameter

Optical cladding
125 μm +/- 1 μm diameter

Primary acrylate coating yellow
245 μm +/- 10 μm diameter

Mode field diameter (1310nm)
9,3 +/- 0,4 μm

Maximum Attenuation
1310nm: 0,36 db/km
1550nm: 0,22 db/km

Maximum Dispersion
1285-1330nm: 3,5 ps/(nm x km)
1550nm: 18 ps/(nm x km)

Effective group of refraction:
1310nm: 1,470
1550nm: 1,470

Multimode G50/125 μm 2.7B500/0.8F1000 OM2

Optical fiber
G50/125 μm (conform to CCITT Rec. G. 651 and IEC 60793-2-10 type A1a)

Optical core
50 μm +/- 2,5 μm diameter

Optical cladding
125 μm +/- 2 μm diameter

Primary acrylate coating green
245 μm +/- 10 μm diameter

Maximum Attenuation
850nm: 2,7 db/km
1300nm: 0,8 db/km

Bandwidth (Overfilled launch)
850nm: 500 MHz x km min.
1300nm: 1000 MHz x km min.

Numeric aperture
0,200 +/- 0,015

Effective group of refraction:
850nm: 1,483
1300nm: 1,478



Link lengths 1 Gbit/s
1000BASE-SX (850nm) > 525m
1000BASE-LX (1300nm) > 800m

Link lengths 10 Gbit/s
10GBASE-LX4 (1300nm) min. 300m

Multimode G62,5/125µm 3.2B250/0.9F600 OM1

Optical fiber
G62,5/125µm (conform to CCITT Rec. G. 651 and IEC 60793-2-10 type A1b)

Optical core
62,5 µm +/- 2,5 µm diameter

Optical cladding
125 µm +/- 2 µm diameter

Primary acrylate coating blue
245 µm +/- 10 µm diameter

Maximum Attenuation
850nm: 3,2 db/km
1300nm: 0,9 db/km

Bandwidth (Overfilled launch)
850nm: 250 Mhz x km min.
1300nm: 600 Mhz x km min.

Numeric aperture
0,275 +/- 0,015

Effective group of refraction:
850nm: 1,497
1300nm: 1,493

Link lengths 1 Gbit/s
1000BASE-SX (850nm) > 350m
1000BASE-LX (1300nm) > 550m

GENERAL CHARACTERISTICS

Minimum Bending Radius
static 30 mm
dynamic 60 mm

Operating Temperature
-5° C to + 70° C

Storage Temperature
-25° C to + 70° C



Crush Resistance
300 N/dm

Tensile Load
600 N

FIRE PERFORMANCE

Flame retardancy according to IEC 60332-1 and IEC 60332-3 Kat. A/F
Smoke density according to IEC 61034-1 and IEC 61034-2
Halogen-free according to IEC 60754-2
Fire Load 0,36 MJ/m
No corrosive and toxic fumes

CHEMICAL CHARACTERISTICS

No resistance to oil, petrol, acid and leach

STANDARDISATION

DIN VDE 0888-6
IEC 60794-2

ORDERING INFORMATION

Order Code	Item	Fiber	Typ	OD	Weight
27108002	I-VH-2E9/125-B	2x 1	9/125µm	2,8 x 5,7 mm	15,8 kg/km
27108000	I-VH-2G50/125-G	2x 1	50/125µm	2,8 x 5,7 mm	15,8 kg/km
27108001	I-VH-2G62,5/125-L	2x 1	62,5/125µm	2,8 x 5,7 mm	15,8 kg/km

