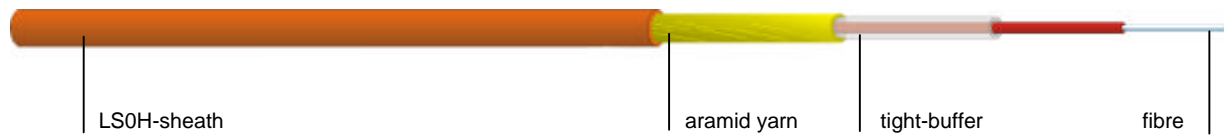


Optofil-Indoor cable

EF 2.1 / 2.4 / 2.8 mm, LS0H

Tight-buffer tube design, flame retardant



Cable type		EF 2.1	EF 2.4	EF 2.8
nom. cable diameter	[mm]	2.1	2.4	2.8
max. weight	[kg/km]	4.1	5.5	7.5
min. bending radius	[mm]	30	35	400
max. tensile load	[N]	100	100	100
max. crush resistance continuous	[N/cm]	10	10	10
max. crush resistance short-term	[N/cm]	100	100	100
max. burning energy	[kWh/km]	23	32	41

Type

Optofil-I...EF 2.1 / 2.4 / 2.8, LS0H

Area of application

Connection cable between terminal distributors and/or end devices, can be spliced in cable terminal distributors, direct connector installation

Features

Small outside diameter, flexible, halogen-free, flame retardant sheath material, tight-buffer tube design

Sheath colours

E9/125 green
G50/125 orange
G62.5/125 grey

Burning characteristics

Very low burning energy, LS0H-Sheath is halogenfree, non corrosive fumes

Printing

Dätwyler Optofil, fibre type, LS0H, cable no, meter marks

Optical parameter

The cable is available with different types of fibre (see fibre data sheets)

Temperature range

Operation : -10°C to +60°C
IEC 794-1 F1

Mech. characteristics

Tensile performance:
IEC 794-1 E1

Crush resistance:
IEC 794-1 E3

Impact:
IEC 794-1 E4

Repeated bending:
IEC 794-1 E6

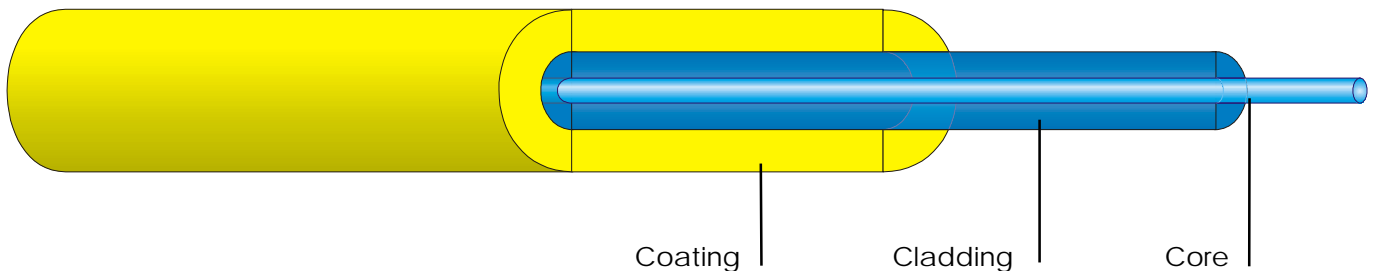
Torsion:
IEC 794-1 E7

Cable bending:
IEC 794-1 E11

Multi-Mode Fibre (MMF) Standard

G50/125/250 to ITU-T Rec. G. 651

G62.5/125/250 to IEC 793-2 Type A 1b



Main areas of application

Local, industrial or EDP networks (e.g., LAN) for medium transmission distances and at medium transmission rates at the 850 nm and 1300 nm wavelengths.

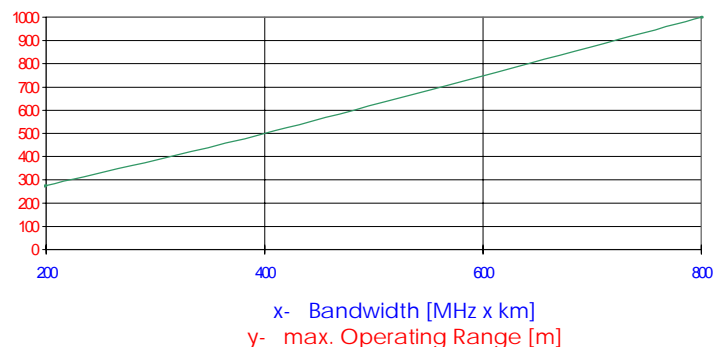
Transmission characteristics		G50/125/250		G62/125/250	
Wavelength	[nm]	850	1300	850	1300
Max. Attenuation (cabled)	[dB/km]	2.7	0.7	3.0	0.7
Min. Bandwidth	[MHz x km]	400	800	200	600
Refractive index		1.482	1.477	1.496	1.491

Geometry and mechanical characteristics

Numerical aperture		0.200 +/- 0.015	0.275 +/- 0.015
Core Ø	[µm]	50 +/- 2.5	62.5 +/- 2.5
max. Core non-circularity	[%]	6	6
Cladding Ø	[µm]	125 +/- 2	125 +/- 2
max. Cladding non-circularity	[%]	1.0	1.0
max. Cladding/Core concentricity error	[µm]	1.5	1.5
Coating Ø	[µm]	245 +/- 10	245 +/- 10
max. Coating concentricity error	[µm]	12.5	12.5
Test load	[kpsi]	100	100

Application Gigabit Ethernet

IEEE 802.3z	Fibretype	Bandwidth [MHz x km]	max. length [m]
1000 Base-SX	MMF G50	400	500
	MMF G62	200	275
1000 Base-LX	MMF G50	400/500	550
	MMF G62	500	550
	SMF E9	-	5000



Technical changes reserved

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