

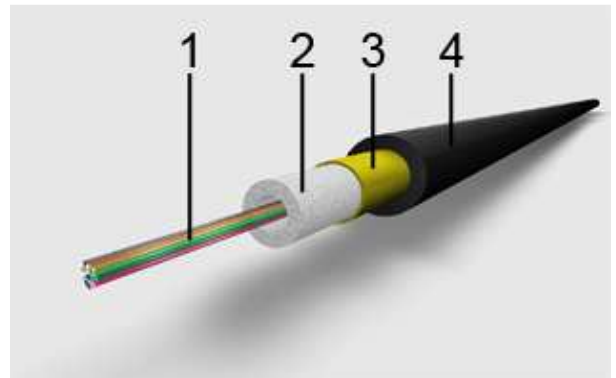
HUBER+SUHNER DATA SHEET

FIBER OPTIC CABLE: UP TO 12-.../BW(ZN)H-...35

Description

Multi-fiber Loose Tube Cable

- Metal free indoor and outdoor cable
- Strain relieved with aramide yarn
- For use in ducts and in unprotected environment
- High chemical resistance against acids/alkalies
- Halogen free and non-corrosive fire gases
- For Masterline application



Available Types

Fiber count: 2 up to 12 fibers

Type of Fiber

Standard:	E9,	according to IEC 60793-2-50 B1.1 and/or B1.3 and ITU-T G.652D
Optional:	NZDSF,	according to IEC 60793-2-50 B4 and ITU-T G.655
Standard:	G50,	according to IEC 60793-2-10 A1.1a and ITU-T G.651
Standard:	G62,	according to IEC 60793-2-10 A1.1b
Optional:	H200,	according to IEC 60793-2-30 A3a

Available Colours

Fiber:	According to colour code
Tube:	White or natural
Jacket (outer):	Black

Technical Data

Construction

Pos.	Description / Material	Size	Options / Notice
1	12 Optical fiber	250 µm	Fiber type, colour
2	1 Multi-fiber loose tube up to 12 fibers	2.2 mm	Colour, jelly-filled
3	Reinforcement / aramide yarn		Swellable
4	Jacket / PE flame retardant	3.5 mm	Colour, inscription
5			
6			
7			
8			

Mechanical data

Characteristics	Conditions	Tested acc. to	Values
Weight			10.34 kg/km
Tensile strength	during installation (r ≥ 52.5 mm) in Service (r ≥ 35 mm)	IEC 60794-1-2 E1	900 N 250 N
Minimal bending radius	During installation, 6 turns In service, 6 turns	IEC 60794-1-2 E11	52.5 mm 35 mm
Crush resistance	During installation In service	IEC 60794-1-2 E3	300 N/cm 100 N/cm
Impact resistance	W _p = 1.4 J	IEC 60794-1-2 E4	50 impacts
Repeated bending	radius = 35 mm / weight = 1 kg	IEC 60794-1-2 E6	5000 cycles
Torsion	angle = ±1440° / length = 1000 mm	IEC 60794-1-2 E7	3 cycles

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Rev: F

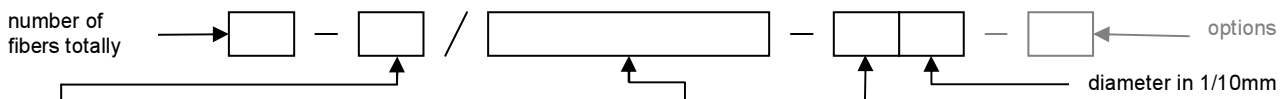
Environmental Data

Characteristics	Conditions	Tested acc. to	Values
Temperature range	during installation in service in storage	IEC 60794-1-2 F1	-25 °C up to +50 °C -40 °C up to +70 °C -40 °C up to +70 °C
Fire load			0.43 MJ/m
2002/95/EC (RoHS)			compliant
Water penetration	h=1m, 24h, p<3m	IEC 60794-1-2 F5B	Passed

Specification For singlemode at 1550nm, for multimode at 1300nm

Ordering Information

HUBER+SUHNER AG Fiber Optics cable code



number of fibres per loose tube, plus

fiber code	Datasheet
E9	DOC-0000218069
NZDSF	DOC-0000218075 or DOC-0000218078
G50	DOC-0000218051
G62	DOC-0000218060
H200	DOC-0000218064

description
of cable construction

colour code for outer jacket

A: red	M: turquoise
B: green	N: blue (light)
C: blue	O: brown (light)
D: orange	P: purple
E: yellow	Q: yellow-green
F: white	R: olive-green
G: black	T: transparent
H: grey	U: nature (milky or beige)
I: brown	X: other
K: violet	Z: black with orange stripes
L: pink	

Cabled fiber attenuation according to IEC60794-1-1 table 1
and fiber properties according above fiber data sheet

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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