

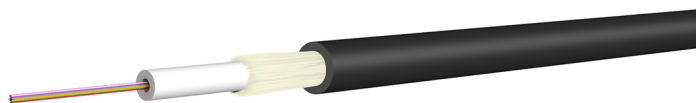
FIBER OPTIC CABLE

Multi-fiber Loose Tube Cable LSFH

Description

12-.../Q(ZNG)H-...120

- Metal free indoor and outdoor cable
- Rodent-protected, glass-armoured
- Ripcord for easy jacked removal
- Increased tensile strength
- Low smoke, halogen free and self-extinguishing
- Longitudinal and transversal watertight cable



Available Types

Fiber count: 2 up to 24 Fibers

Type of Fiber

E9/125	according to IEC 60793-2-50 Typ B1.3 + ITU G.652.D
E9/125A2	according to IEC 60793-2-50 Typ B6_a2 + ITU G.657.A2
G50/125-OM2	according to IEC 60793-2-10 Typ A1a + ITU G.651
G50/125-OM3	according to IEC 60793-2-10 A1a2 + ITU G.651 BendOptimized
G50/125-OM4	according to IEC 60793-2-10 A1a3 + ITU G.651 BendOptimized
G62.5/125-OM1	according to IEC 60793-2-10 A1b
NZDSF	according to IEC 60793-2-50 Typ B4 + ITU G.655
H200/230/500	according to IEC 60793-2-30 A3c

Standard Colours

Fiber:	According to colour code
Tube:	White or natural
Jacket (outer):	Black (optional with two orange stripes)

Technical Data

Construction

Description / Material	Size	Options / Notice
24 Optical fiber	250 µm	Fiber type, colour
1 Multi-fiber loose tube, up to 24 fibers each	2.8 mm	Colour, dry
Reinforcement / glass-roving		Swellable
2 Ripcords		
Outer jacket / PE flame retardant (LSFH)	12 mm	

Mechanical data

Characteristics	Conditions	Tested acc. to	Values
Weight			178 kg/km
Tensile strength	During installation In service	IEC 60794-1-2 E1	12000 N 4500 N
Minimal bending radius	During installation In service	IEC 60794-1-2 E11	180 mm 120 mm
Crush resistance	During installation In service	IEC 60794-1-2 E3	11000 N/dm 6000 N/dm
Impact resistance	W _p = 4.5 J	IEC 60794-1-2 E4	100 impacts
Repeated bending	Radius = 80 mm / Weight = 2.5 kg	IEC 60794-1-2 E6	5000 cycles
Torsion	Angle = ±1440° / Length = 1000 mm	IEC 60794-1-2 E7	5 cycles



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Environmental Data

Characteristics	Conditions	Tested acc. to	Values
Temperature range	During installation In service In storage	IEC 60794-1-2 F1	-10 °C up to +50°C -20 °C up to +70°C -25 °C up to +70°C
Fire load			3.1 MJ/m
Fire propagation	On a vertical single cable On a vertical cable bundle	IEC 60332-1-2 IEC 60332-3-22	passed passed
Fire Test: smoke density Fire Test: halogen acid gas Fire Test: degree of acidity	Jacket material Jacket material Jacket material	IEC 61034-2 IEC 60754-1 IEC 60754-2	passed halogen free passed
2011/65/EU (RoHS - including 2015/863 and 2017/2102)			compliant
Water penetration	h=1m, 24h, p<3m	IEC 60794-1-2 F5B	passed
(EU) No 305/2011 (CPR)		EN50575	B2ca-s1a,d0,a1

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

