DATA SHEET

Fiber Optic Cables

Riser 2x0.9mm Tight Tube Glass-Armoured LSFH Ø 4.8mm

02-.../F(ZNG)H-...48

Properties

- Metal free indoor and outdoor cable
- Rodent-protected, glass-armoured
- Low smoke, halogen free and self-extinguishing
- Low fire load for high safety requirements



Jacket colour

Construction		
Fiber	Quantity: up to	2
	Type	coloured
Tube	Quantity	2 pcs
	Diameter	0.9 mm
Strain relief	Type	glass-roving
	Swellability	Swellable
Outer jacket	Material	LSFH
	Diameter	4.8mm

Environmental data		
Temperature	Standard	IEC 60794-1-2 F1
	During installation	-40 °C ... 70 °C
	In service	-40 °C ... 75 °C
	In storage	-40 °C ... 75 °C
Fire load per length		0.46 MJ/m
Flame propagation	Standard Condition	IEC 60332-1-2 On a vertical single cable
	Standard Condition	IEC 60332-3 On a vertical cable bundle
Fire characteristics	Standard Condition Characteristics	IEC 60754-1 Jacket material Halogen acid gas
	Standard Condition Characteristics	IEC 60754-2 Jacket material Degree of acidity
Water penetration	Standard Condition	IEC 60794-1-2 F5B h_1m, 24h, p<3m

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Mechanical data		
Weight		approx. 26 g/m
Tensile strength	Standard	IEC 60794-1-2 E1
	During installation	1000 N
	In service	500 N
Min. bending radius	Standard	IEC 60794-1-2 E11
	During installation	70 mm
	In service	40 mm
Repeated bending	Standard	IEC 60794-1-21 E6
	Radius	60 mm
	Weight	5 kg
	Cycles	25
Crush resistance	Standard During installation In service	IEC 60794-1-2 E3 20000 N/dm 7500 N/dm
Impact resistance	Standard Energy Cycles	IEC 60794-1-21 E4 2.21 J 50
Torsion	Standard Cycles Length Angle	IEC 60794-1-21 E7 1000 1000 mm 1440 °
Flexing	Standard Radius Weight Velocity Cycles	IEC 60794-1-21 E8 100 mm 1.5 kg 144 m/s 20000

Colours	
Fiber	E9, G50 and G62: transparent
Tube	According to colour code
Standard outer jacket colours	Black

Type of fiber	
Fiber type	**Fiber standard**
E9/125A2	according to IEC 60793-2-50 B-657.A2 + ITU-T G.657.A2
G62,5/125-OM1	according to IEC 60793-2-10 A1-OM1
G50/125-OM2	according to IEC 60793-2-10 A1-OM2b + ITU-T G.651.1
G50/125-OM3	according to IEC 60793-2-10 A1-OM3b

Fiber colour code

	1	2	3	4	5	6	7	8	9	10	11	12
H+S Standard	Red	Green	Yellow	Blue	White	Violet	Orange	Black	Grey	Brown	Heather violet	Turquoise
DIN	Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Turquoise	Black	Orange	Heather violet
TIA	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Heather violet	Turquoise
IEC	Blue	Yellow	Red	White	Green	Violet	Orange	Grey	Turquoise	Black	Brown	Heather violet

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