DATA SHEET

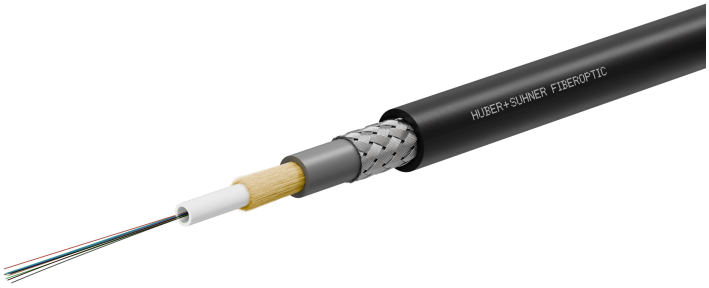
Fiber Optic Cables

Loose Tube Steel-Armoured 1x2.8mm LSFH Ø 8.0mm

24-.../W(ZN)HAH-...80

Properties

- Spiral Steel-armoured outdoor cable
- Rodent-proof, steel-armoured
- For high mechanical and thermal stability
- Low smoke, halogen free and self-extinguishing
- Low fire load for high safety requirements



Jacket colour



Construction		
Fiber	Quantity: up to	24
Tube	Quantity	1 pcs
	Tube options	Jelly-filled
	Diameter	2.8 mm
Strain relief	Type	aramide yarn
	Swellability	Non-swellable
Rip Cord	Quantity	1 pcs
Inner jacket	Quantity	1 pcs
	Type	Fiber bundle
	Diameter	5mm
Steel armoring	Diameter	5.8mm
	Type	Steel braid
Outer jacket	Material	LSFH
	Diameter	8mm

Environmental data		
Temperature	Standard	IEC 60794-1-22 F1
	During installation	-10 °C ... 50 °C
	In service	-40 °C ... 70 °C
	In storage	-40 °C ... 70 °C
Flame propagation	Standard Condition	IEC 60332-1-2 On a vertical single cable
	Standard Condition	IEC 60332-3-22 On a vertical cable bundle
Fire resistance	Standard Time	IEC 60331-25 180 min
Fire characteristics	Standard Condition Characteristics	IEC 61034-2 Cable Smoke density

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Environmental data		
	Standard Condition Characteristics	IEC 60754-1 Cable Halogen acid gas
	Standard Condition Characteristics	IEC 60754-2 Cable Degree of acidity

Mechanical data		
Weight		approx. 82 g/m
Tensile strength	Standard	IEC 60794-1-2 E1
	During installation	3000 N
	In service	1500 N
Min. bending radius	Standard	IEC 60794-1-2 E11
	During installation	120 mm
	In service	80 mm
Crush resistance	Standard During installation In service	IEC 60794-1-2 E3 4000 N/dm 2000 N/dm
Impact resistance	Standard Energy Cycles	IEC 60794-1-2 E4 3 J 50
Kink resistance	Standard Radius	IEC 60794-1-2 E10 8 mm

Colours	
Fiber	According to colour code
Tube	White or natural
Standard outer jacket colours	Black
	Black with orange stripes
	Orange

Type of fiber	
Fiber type	**Fiber standard**
E9/125	according to IEC 60793-2-50 B-652.D + ITU-T G.652.D
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
H200/230/500	according to IEC 60793-2-30 A3c
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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