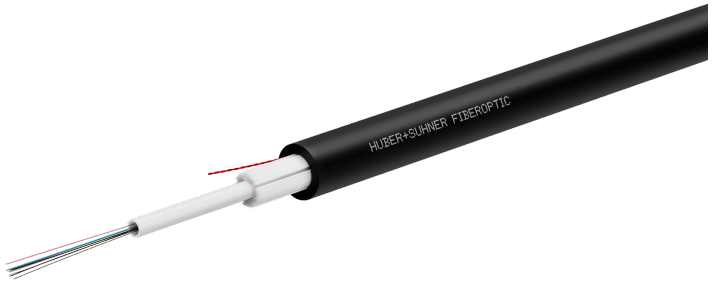
DATA SHEET

Fiber Optic Cables
Loose Tube Glass-Armoured 1x2.8mm LSFH Ø 8.5mm Dca
24-.../W(ZNG)H-...85#D

Properties

- Metal free indoor and outdoor cable
- Rodent-protected, glass-armoured
- Low smoke, halogen free and self-extinguishing
- Longitudinal and transversal watertight cable



Jacket colour

Construction		
Fiber	Quantity: up to	24
Tube	Quantity	1 pcs
	Tube options	Jelly-filled
	Diameter	2.8 mm
Strain relief	Type	glass-roving
	Swellability	Swellable
Outer jacket	Material	LSFH
	Diameter	8.5mm

Environmental data		
CPR class	Standard	EN 50575:2014+A1:2016
	Class	Dca-s1a,d0,a1
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 60332-3-24 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
	Standard Condition Characteristics	IEC 60754-1 Jacket material Halogen acid gas
	Standard Condition Characteristics	IEC 60754-2 Jacket material Degree of acidity

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Environmental data		
Water penetration	Standard Condition	IEC 60794-1-2 F5B h_1m, 24h, p<3m

Mechanical data		
Weight		approx. 83 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	130 mm
	In service	80 mm
Repeated bending	Standard	IEC 60794-1-2 E6
	Radius	50 mm
	Weight	2.5 kg
	Cycles	5000
Crush resistance	Standard During installation In service	IEC 60794-1-2 E3 8000 N/dm 3000 N/dm
Impact resistance	Standard Energy Cycles	IEC 60794-1-2 E4 4.41 J 30
Torsion	Standard Cycles Length Angle	IEC 60794-1-2 E7 50 1000 mm 1440 °

Colours	
Fiber	According to colour code
Tube	White or natural
Standard outer jacket colours	Yellow
	Red
	Turquoise
	Heather violet
	Black
	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
G50/125-OM3	according to IEC 60793-2-10 A1-OM3b
G50/125-OM4	according to IEC 60793-2-10 A1-OM4b
G50/125-OM5	according to IEC 60793-2-10 A1-OM5b

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

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Fiber colour code												
IEC	Blue	Yellow	Red	White	Green	Violet	Orange	Grey	Turquoise	Black	Brown	Heather violet

Additional Information
Water penetration acc. IEC 60794-1-22 F5C: passed (h=1m, t=24h, p<3m)

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DOCUMENT PIM-P7269 / Date of publication: 13.05.2026 / uncontrolled copy