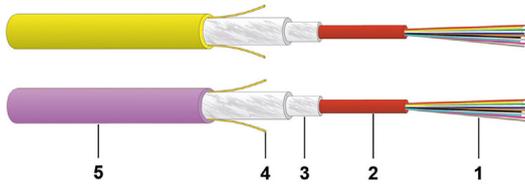


## FO Indoor ZGGFR / J-B(ZN)BH, D<sub>ca</sub>

up to 12 fibres, FRNC/LSZH sheath, Euroclass D<sub>ca</sub>

metal-free, dry interstices, gel-free loose tube,  
rodent protection, flame retardant



- 1 ≤ 12 fibres
- 2 Loose tube
- 3 Glass armour
- 4 Ripcord
- 5 FR/LSOH sheath



### Description

Robust, non-metallic fibre optic indoor cable with one central loose-tube.  
High crush resistance for high transmission reliability.  
Easy handling due to cable construction with dry interstices and gel-free loose tube.  
Non-metallic rodent protection.  
The two coloured ripcords are easy to identify and enable the safe opening of the cable sheath.  
Flame retardant halogen-free FR/LSOH sheath.

### Application

LAN backbone, access and riser zone.  
Data centre backbone and horizontal cabling.  
Connection cable between the building distributors and/or floor distributors.  
Suitable for laying in dry cable trays, ducts and vertical shafts, also when accessible to rodents.  
Can also be installed on very complex cable trays.

### Construction

Outer sheath material	FRNC/LSZH
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### General properties

Maximum number of fibres	12
Standard delivery length [m]	8,000 m
Installation temperature	-10 °C - +50 °C
Storage temperature	-25 °C - +70 °C
Operating temperature	-25 °C - +70 °C
Imprint	DATWYLER FO Indoor ZGGFR / J-B(ZN)BH «No. of fibres» «Fibre type» «Batch no.» MADE IN SWITZERLAND «Receiver wave receiver wave» «Meter marks»
Field of application	Indoor

## Standards

Tensile performance	IEC 60794-1-21 E1
Crush resistance	IEC 60794-1-21 E3
Impact	IEC 60794-1-21 E4
Repeated bending	IEC 60794-1-21 E6
Torsion	IEC 60794-1-21 E7
Kink	IEC 60794-1-21 E10
Bend	IEC 60794-1-21 E11
Temperature cycling	IEC 60794-1-22 F1
Reaction to fire	EN 13501-6
Euroclass	D <sub>ca</sub>
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2
Zero halogen no corrosive gases	IEC 60754-1/-2, EN 60754-1/-2, VDE 0482-754-1/-2
Flame propagation	IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2

## Versions

Material number	Product	Reaction to fire	Outer sheath colour	Fibre type	Fibre category	Outer sheath diameter [mm]	Bending radius [mm]	Weight [kg/km]	Tensile load short term [N]	Tensile load continuous [N]	Crush resistance short term [N]	Crush resistance continuous [N]	Fire load [kWh/m]	Packing unit	GTIN / EAN
19603100DZ	FO Indoor ZGGFR 1x4	Dca-s2,d1,a1	yellow	E9/125 G.652.D BLO	OS2	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	
19603300DZ	FO Indoor ZGGFR 1x4	Dca-s2,d1,a1	turquoise	G50/125 OM3	OM3	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	
19603600DZ	FO Indoor ZGGFR 1x4	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	
19605700DZ	FO Indoor ZGGFR 1x6	Dca-s2,d1,a1	yellow	E9/125 G.652.D BLO	OS2	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	
19605800DZ	FO Indoor ZGGFR 1x6	Dca-s2,d1,a1	turquoise	G50/125 OM3	OM3	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	
19605900DZ	FO Indoor ZGGFR 1x6	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	
19603200DZ	FO Indoor ZGGFR 1x8	Dca-s2,d1,a1	yellow	E9/125 G.652.D BLO	OS2	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	
19603400DZ	FO Indoor ZGGFR 1x8	Dca-s2,d1,a1	turquoise	G50/125 OM3	OM3	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	
19603700DZ	FO Indoor ZGGFR 1x8	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	
19456300DZ	FO Indoor ZGGFR 1x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D BLO	OS2	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	
19603500DZ	FO Indoor ZGGFR 1x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	OM3	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	
19597400DZ	FO Indoor ZGGFR 1x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	5.9	120	42	3,000	1,000	4,000	1,200	0.065	by the metre	