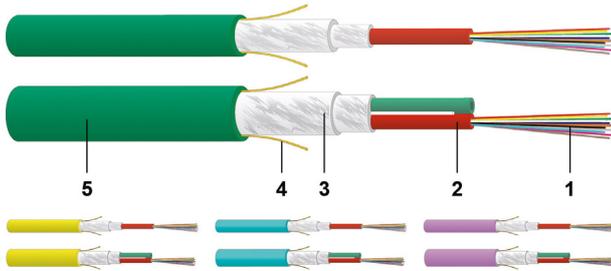


FO Universal ZGGFR / U-DQ(ZN)BH

up to 24 fibres, Euroclass Dca

metal-free, dry interstices, rodent protection,
flame retardant, longitudinally watertight
in accordance with IEC 60332-1-2 and IEC 60332-3-24



- 1 ≤ 24 fibres
- 2 Loose tube
- 3 Glass armour
- 4 Ripcord
- 5 FR/LSOH sheath



Description

Robust, non-metallic fibre optic outdoor and indoor cable with one or two central loose-tubes.
High crush resistance for high transmission reliability.
Easy handling due to cable construction with dry interstices.
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.
Connection cable between the building distributors and/or floor distributors.
Suitable for laying in cable trays, ducts and vertical shafts.
Can also be spliced in all FO distributors and joints.

Construction

Outer sheath material	FRNC/LSZH
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General properties

Maximum number of fibres	24
Installation temperature	-10 °C - +50 °C
Storage temperature	-25 °C - +70 °C
Operating temperature	-25 °C - +70 °C
Imprint	DATWYLER «cable type» «Datwyler designation» «DIN designation» «no. of fibres» «fibre type» «add. text» «batch no.» «meter marks»
Field of application	Universal

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
Bend	IEC 60794-1-21 E11
Temperature cycling	IEC 60794-1-22 F1
Water penetration	IEC 60794-1-22 F5
Reaction to fire	EN 13501-6
Euroclass	D _{ca}
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
Flame spread	IEC 60332-3-24, EN 60332-3-24, VDE 0482-332-3-24
UV resistance	EN 50289-4-17

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
19020300DZ	FO Universal ZGGFR 1x4	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
18593800DZ	FO Universal ZGGFR 1x4	Dca-s2,d1,a1	green	G50/125 OM2	OM2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
18598900DZ	FO Universal ZGGFR 1x4	Dca-s2,d1,a1	green	G50/125 OM3	OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19271200DZ	FO Universal ZGGFR 1x4	Dca-s2,d1,a1	green	G50/125 OM4	OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19020400DZ	FO Universal ZGGFR 1x6	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19342100DZ	FO Universal ZGGFR 1x6	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19011200DZ	FO Universal ZGGFR 1x6	Dca-s2,d1,a1	green	G50/125 OM3	OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19342500DZ	FO Universal ZGGFR 1x6	Dca-s2,d1,a1	turquoise	G50/125 OM3	OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19336000DZ	FO Universal ZGGFR 1x6	Dca-s2,d1,a1	green	G50/125 OM4	OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19342900DZ	FO Universal ZGGFR 1x6	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19020500DZ	FO Universal ZGGFR 1x8	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
18595900DZ	FO Universal ZGGFR 1x8	Dca-s2,d1,a1	green	G50/125 OM3	OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
18736300DZ	FO Universal ZGGFR 1x8	Dca-s2,d1,a1	green	G50/125 OM4	OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	

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
19442200DZ	FO Universal ZGGFR 1x8	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19007700DZ	FO Universal ZGGFR 1x12	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19342200DZ	FO Universal ZGGFR 1x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19331400DZ	FO Universal ZGGFR 1x12	Dca-s2,d1,a1	green	E9/125 G.652.D BLO	OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
18635000DZ	FO Universal ZGGFR 1x12	Dca-s2,d1,a1	green	G50/125 OM3	OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19342600DZ	FO Universal ZGGFR 1x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19125100DZ	FO Universal ZGGFR 1x12	Dca-s2,d1,a1	green	G50/125 OM4	OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19343000DZ	FO Universal ZGGFR 1x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre	
19296900DZ	FO Universal ZGGFR 1x12	Dca-s2,d1,a1	green	G50/125 OM4	OM4	8.2	125	72	3,500	1,500	5,000	3,000	0.336	by the metre	
18735400DZ	FO Universal ZGGFR 1x24	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	OS2	8.2	125	72	3,500	1,500	5,000	3,000	0.336	by the metre	
19333700DZ	FO Universal ZGGFR 1x24	Dca-s2,d1,a1	green	E9/125 G.652.D BLO	OS2	8.2	125	72	3,500	1,500	5,000	3,000	0.336	by the metre	
19175500DZ	FO Universal ZGGFR 1x24	Dca-s2,d1,a1	green	G50/125 OM3	OM3	8.2	125	72	3,500	1,500	5,000	3,000	0.336	by the metre	
19271300DZ	FO Universal ZGGFR 1x24	Dca-s2,d1,a1	green	G50/125 OM4	OM4	8.2	125	72	3,500	1,500	5,000	3,000	0.336	by the metre	
19007100DZ	FO Universal ZGGFR 2x12	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	OS2	9.5	140	94.3	4,000	1,500	5,000	3,000	0.43	by the metre	
19342300DZ	FO Universal ZGGFR 2x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	OS2	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre	
18643200DZ	FO Universal ZGGFR 2x12	Dca-s2,d1,a1	green	G50/125 OM3	OM3	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre	
19342700DZ	FO Universal ZGGFR 2x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	OM3	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre	
19125200DZ	FO Universal ZGGFR 2x12	Dca-s2,d1,a1	green	G50/125 OM4	OM4	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre	
19343100DZ	FO Universal ZGGFR 2x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre	
19013700DZ	FO Universal ZGGFR	Dca-s2,d1,a1	green	E9/125 G.652.D OS2 + G50/125 OM3	OS2	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre	

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
19012400DZ	FO Universal ZGGFR	Dca-s2,d1,a1	green	E9/125 G.652.D OS2 + G50/125 OM4	OS2	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre	

* 12 fibres E9 in red / 12 fibres G50 in green loose tube

Subject to technical modification

As of 2024-06-27 11:36:22