

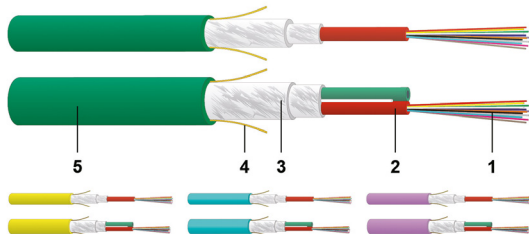
FO Universal ZGGFR / U-DQ(ZN)BH

up to 24 fibres, Euroclass Dca

metal-free, dry interstices,

rodent protection, flame retardant

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/LS0H 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/LS0H 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

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

Standards

Tensile performance	IEC 60794-1-21 E1/test criterion 0.33% reversible optical fibre elongation
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
Water penetration	IEC 60794-1-22 F5
Reaction to fire (Euroclasses)	EN 13501-6
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
Smoke Density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2
UV resistance	EN 50289-4-17

Versions

Material number	Product	Reaction To Fire	Outer sheath colour	Fibre type	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
19020300DZ	FO Universal 1x4	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
18598900DZ	FO Universal 1x4	Dca-s2,d1,a1	green	G50/125 OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19271200DZ	FO Universal 1x4	Dca-s2,d1,a1	green	G50/125 OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19020400DZ	FO Universal 1x6	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19342100DZ	FO Universal 1x6	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19011200DZ	FO Universal 1x6	Dca-s2,d1,a1	green	G50/125 OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19342500DZ	FO Universal 1x6	Dca-s2,d1,a1	turquoise	G50/125 OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19336000DZ	FO Universal 1x6	Dca-s2,d1,a1	green	G50/125 OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19342900DZ	FO Universal 1x6	Dca-s2,d1,a1	heather violet	G50/125 OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19020500DZ	FO Universal 1x8	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
18595900DZ	FO Universal 1x8	Dca-s2,d1,a1	green	G50/125 OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
18736300DZ	FO Universal 1x8	Dca-s2,d1,a1	green	G50/125 OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19442200DZ	FO Universal 1x8	Dca-s2,d1,a1	heather violet	G50/125 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	Outer sheath diameter [mm]	Bending radius [mm]	Weight [kg]	Tensile load short term [N]	Tensile load continuous [N]	Crush resistance short term [N]	Crush resistance continuous [N]	Fire load [kWh/m]	Packing unit
19007700DZ	FO Universal 1x12	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19342200DZ	FO Universal 1x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19331400DZ	FO Universal 1x12	Dca-s2,d1,a1	green	E9/125 G.652.D BLO	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
18635000DZ	FO Universal 1x12	Dca-s2,d1,a1	green	G50/125 OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19342600DZ	FO Universal 1x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19125100DZ	FO Universal 1x12	Dca-s2,d1,a1	green	G50/125 OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19343000DZ	FO Universal 1x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	7.6	115	67	3,000	1,000	5,000	3,000	0.275	by the metre
19296900DZ	FO Universal 1x12	Dca-s2,d1,a1	green	G50/125 OM4	8.2	125	72	3,500	1,500	5,000	3,000	0.336	by the metre
18735400DZ	FO Universal 1x24	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	8.2	125	72	3,500	1,500	5,000	3,000	0.336	by the metre
19333700DZ	FO Universal 1x24	Dca-s2,d1,a1	green	E9/125 G.652.D BLO	8.2	125	72	3,500	1,500	5,000	3,000	0.336	by the metre
19175500DZ	FO Universal 1x24	Dca-s2,d1,a1	green	G50/125 OM3	8.2	125	72	3,500	1,500	5,000	3,000	0.336	by the metre
19271300DZ	FO Universal 1x24	Dca-s2,d1,a1	green	G50/125 OM4	8.2	125	72	3,500	1,500	5,000	3,000	0.336	by the metre
19007100DZ	FO Universal 2x12	Dca-s2,d1,a1	green	E9/125 G.652.D OS2	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre
19342300DZ	FO Universal 2x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre
18643200DZ	FO Universal 2x12	Dca-s2,d1,a1	green	G50/125 OM3	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre
19342700DZ	FO Universal 2x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre
19125200DZ	FO Universal 2x12	Dca-s2,d1,a1	green	G50/125 OM4	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre
19343100DZ	FO Universal 2x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre
19013700DZ	FO Universal Hy-	Dca-s2,d1,a1	green	E9/125 G.652.D OS2 + G50/125 OM3	9.5	140	84	4,000	1,500	5,000	3,000	0.43	by the metre
19012400DZ	FO Universal Hy-	Dca-s2,d1,a1	green	E9/125 G.652.D OS2 + G50/125 OM4	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