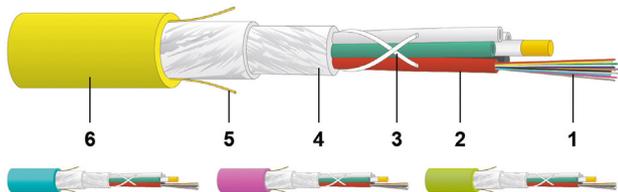


FO Universal DLTS wbGGFR / U-BQ(ZN)BH, D_{ca}

up to 144 fibres, FRNC/LSZH sheath, Euroclass D_{ca}

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



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



Description

Robust, metal-free fibre optic outdoor and indoor cable with stranded dry loose tubes.
High crush resistance for high transmission reliability.
Easy to handle due to cable construction with dry interstices and gel-free loose tubes.
Longitudinal water-tightness by swelling yarn.
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

Fibre colour code	IEC 60304
Maximum number of fibres	144
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 Universal DLTS wbGGFR / U-BQ(ZN)BH «No. of fibres» «Fibre type» «Batch no.» MADE IN SWITZERLAND «Receiver wave receiver wave» «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
Kink	IEC 60794-1-21 E10
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
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]	CU rate [kg/km]	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
19710100DZ	FO Universal DLTS wbGGFR 1x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D BLO	OS2	11.4	175	0	156	9,000	5,000	5,000	1,500	0.51	by the metre
19618300DZ	FO Universal DLTS wbGGFR 2x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D BLO	OS2	11.4	175	0	156	9,000	5,000	5,000	1,500	0.51	by the metre
19710600DZ	FO Universal DLTS wbGGFR 2x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	OM3	11.4	175	0	156	9,000	5,000	5,000	1,500	0.51	by the metre
19618700DZ	FO Universal DLTS wbGGFR 2x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	11.4	175	0	156	9,000	5,000	5,000	1,500	0.51	by the metre
19706900DZ	FO Universal DLTS wbGGFR 2x12	Dca-s2,d1,a1	lime green	G50/125 OM5	OM5	11.4	175	0	156	9,000	5,000	5,000	1,500	0.51	by the metre
19618400DZ	FO Universal DLTS wbGGFR 4x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D BLO	OS2	11.4	175	0	156	9,000	5,000	5,000	1,500	0.51	by the metre
19710700DZ	FO Universal DLTS wbGGFR 4x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	OM3	11.4	175	0	156	9,000	5,000	5,000	1,500	0.51	by the metre
19618800DZ	FO Universal DLTS wbGGFR 4x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	11.4	175	0	156	9,000	5,000	5,000	1,500	0.51	by the metre
19707000DZ	FO Universal DLTS wbGGFR 4x12	Dca-s2,d1,a1	lime green	G50/125 OM5	OM5	11.4	175	0	156	9,000	5,000	5,000	1,500	0.51	by the metre

Material number	Product	Reaction to fire	Outer sheath colour	Fibre type	Fibre category	Outer sheath diameter [mm]	Bending radius [mm]	CU rate [kg/km]	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
19710200DZ	FO Universal DLTS wbGGFR 6x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D BLO	OS2	12.2	185	0	164	9,000	5,000	5,000	1,500	0.539	by the metre
19710300DZ	FO Universal DLTS wbGGFR 8x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D BLO	OS2	13.5	205	0	197	9,000	5,000	5,000	1,500	0.65	by the metre
19710800DZ	FO Universal DLTS wbGGFR 8x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	OM3	13.5	205	0	197	9,000	5,000	5,000	1,500	0.65	by the metre
19708800DZ	FO Universal DLTS wbGGFR 8x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	13.5	205	0	197	9,000	5,000	5,000	1,500	0.65	by the metre
19710400DZ	FO Universal DLTS wbGGFR 10x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D BLO	OS2	14.8	225	0	236	9,000	5,000	5,000	1,500	0.788	by the metre
19710500DZ	FO Universal DLTS wbGGFR 12x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D BLO	OS2	16.3	245	0	288	9,000	5,000	5,000	1,500	0.958	by the metre
19710900DZ	FO Universal DLTS wbGGFR 12x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	OM3	16.3	245	0	288	9,000	5,000	5,000	1,500	0.958	by the metre
19708900DZ	FO Universal DLTS wbGGFR 12x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	OM4	16.3	245	0	288	9,000	5,000	5,000	1,500	0.958	by the metre

EN 60332-3-Series superseded by EN 50575

Subject to technical modification

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