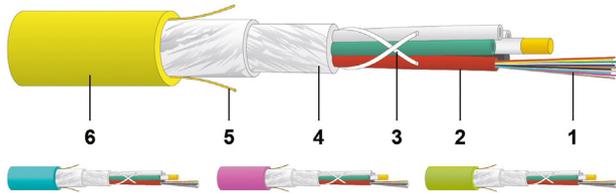


FO Universal DLTS wbGGFR / U-BQ(ZN)BH, C_{ca}

up to 144 fibres, FRNC/LSZH sheath, Euroclass C_{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/LSZH 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/LSZH 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	C _{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	GTIN / EAN
19710100CZ	FO Universal DLTS wbGGFR 1x12	Cca-s1a,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	
19618300CZ	FO Universal DLTS wbGGFR 2x12	Cca-s1a,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	
19710600CZ	FO Universal DLTS wbGGFR 2x12	Cca-s1a,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	
19618700CZ	FO Universal DLTS wbGGFR 2x12	Cca-s1a,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	
19706900CZ	FO Universal DLTS wbGGFR 2x12	Cca-s1a,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	
19618400CZ	FO Universal DLTS wbGGFR 4x12	Cca-s1a,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	
19710700CZ	FO Universal DLTS wbGGFR 4x12	Cca-s1a,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	
19618800CZ	FO Universal DLTS wbGGFR 4x12	Cca-s1a,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	

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	GTIN / EAN
19707000CZ	FO Universal DLTS wbGGFR 4x12	Cca-s1a,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	
19710200CZ	FO Universal DLTS wbGGFR 6x12	Cca-s1a,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	
19710300CZ	FO Universal DLTS wbGGFR 8x12	Cca-s1a,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	
19710800CZ	FO Universal DLTS wbGGFR 8x12	Cca-s1a,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	
19708800CZ	FO Universal DLTS wbGGFR 8x12	Cca-s1a,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	
19710400CZ	FO Universal DLTS wbGGFR 10x12	Cca-s1a,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	
19710500CZ	FO Universal DLTS wbGGFR 12x12	Cca-s1a,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	
19710900CZ	FO Universal DLTS wbGGFR 12x12	Cca-s1a,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	
19708900CZ	FO Universal DLTS wbGGFR 12x12	Cca-s1a,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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