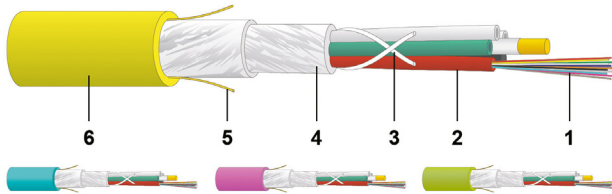


## FO Universal DLTS wbGGFR / U-BQ(ZN)BH

up to 144 fibres, Euroclass D<sub>ca</sub>  
 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

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

## Mechanical properties

Fibre colour code	IEC 60304
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## 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 (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
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]	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 1x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	11.4	175	156	9,000	5,000	5,000	1,500	0.51	by the metre
19618300DZ	FO Universal DLTS 2x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	11.4	175	156	9,000	5,000	5,000	1,500	0.51	by the metre
19710600DZ	FO Universal DLTS 2x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	11.4	175	156	9,000	5,000	5,000	1,500	0.51	by the metre
19618700DZ	FO Universal DLTS 2x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	11.4	175	156	9,000	5,000	5,000	1,500	0.51	by the metre
19706900DZ	FO Universal DLTS 2x12	Dca-s2,d1,a1	lime green	G50/125 OM5	11.4	175	156	9,000	5,000	5,000	1,500	0.51	by the metre
19618400DZ	FO Universal DLTS 4x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	11.4	175	156	9,000	5,000	5,000	1,500	0.51	by the metre
19710700DZ	FO Universal DLTS 4x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	11.4	175	156	9,000	5,000	5,000	1,500	0.51	by the metre
19618800DZ	FO Universal DLTS 4x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	11.4	175	156	9,000	5,000	5,000	1,500	0.51	by the metre
19707000DZ	FO Universal DLTS 4x12	Dca-s2,d1,a1	lime green	G50/125 OM5	11.4	175	156	9,000	5,000	5,000	1,500	0.51	by the metre
19710200DZ	FO Universal DLTS 6x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	12.2	185	164	9,000	5,000	5,000	1,500	0.539	by the metre
19710300DZ	FO Universal DLTS 8x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	13.5	205	197	9,000	5,000	5,000	1,500	0.65	by the metre
19710800DZ	FO Universal DLTS 8x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	13.5	205	197	9,000	5,000	5,000	1,500	0.65	by the metre
19708800DZ	FO Universal DLTS 8x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	13.5	205	197	9,000	5,000	5,000	1,500	0.65	by the metre
19710400DZ	FO Universal DLTS 10x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	14.8	225	236	9,000	5,000	5,000	1,500	0.788	by the metre

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
19710500DZ	FO Universal DLTS 12x12	Dca-s2,d1,a1	yellow	E9/125 G.652.D OS2	16.3	245	288	9,000	5,000	5,000	1,500	0.958	by the metre
19710900DZ	FO Universal DLTS 12x12	Dca-s2,d1,a1	turquoise	G50/125 OM3	16.3	245	288	9,000	5,000	5,000	1,500	0.958	by the metre
19708900DZ	FO Universal DLTS 12x12	Dca-s2,d1,a1	heather violet	G50/125 OM4	16.3	245	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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