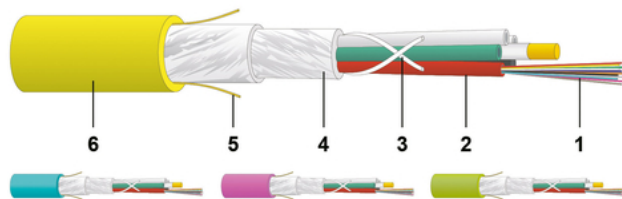


FO Universal DLTS wbGGFR / U-BQ(ZN)BH

up to 144 fibres, 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/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.

OPTICAL PROPERTIES

The cables are available with different types of optical fibre (see fibre data sheets).

MECHANICAL PROPERTIES

Storage temperature:	-25 °C - +70 °C
Installation temperature:	-10 °C - +50 °C
Operating temperature:	-25 °C - +70 °C
Temperature cycling:	IEC 60794-1-22 F1
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
Water penetration:	IEC 60794-1-22 F5

STANDARDS

UV resistance	EN 50289-4-17:2015 (UVA-340)
Reaction to fire (Euroclass)	EN 13501-6: C _{ca}
Imprint	DATWYLER «cable type» «Datwyler designation» «DIN designation» «no. of fibres» «fibre type» «add. text» «batch no.» «meter marks»
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

VERSIONS

Article No.	DoP	Product	Reaction to fire (Euroclass)	Number of fibres	Loose Tubes	Sheath colour	Fibre type	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load continuous [N]	Tensile load short term [N]	Crush resistance continuous [N]	Crush resistance short term [N]	Fire load [kWh/m]	PU
19710100CZ	FO	Universal	Cca-s1a,d1,a1	12	5	yellow	E9/125 G.652.D	11.4	156	175	5000	9000	1500	5000	0.51	by the metre

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DLTS 1x12				OS2												
19618300CZ		FO Universal DLTS 2x12	Cca-s1a,d1,a1	24	5	yellow	E9/125 G.652.D OS2	11.4	156	175	5000	9000	1500	5000	0.51	by the metre
19710600CZ		FO Universal DLTS 2x12	Cca-s1a,d1,a1	24	5	turquoise	G50/125 OM3	11.4	156	175	5000	9000	1500	5000	0.51	by the metre
19618700CZ		FO Universal DLTS 2x12	Cca-s1a,d1,a1	24	5	heather violet	G50/125 OM4	11.4	156	175	5000	9000	1500	5000	0.51	by the metre
19706900CZ		FO Universal DLTS 2x12	Cca-s1a,d1,a1	24	5	lime green	G50/125 OM5	11.4	156	175	5000	9000	1500	5000	0.51	by the metre
19618400CZ		FO Universal DLTS 4x12	Cca-s1a,d1,a1	48	5	yellow	E9/125 G.652.D OS2	11.4	156	175	5000	9000	1500	5000	0.51	by the metre
19710700CZ		FO Universal DLTS 4x12	Cca-s1a,d1,a1	48	5	turquoise	G50/125 OM3	11.4	156	175	5000	9000	1500	5000	0.51	by the metre
19618800CZ		FO Universal DLTS 4x12	Cca-s1a,d1,a1	48	5	heather violet	G50/125 OM4	11.4	156	175	5000	9000	1500	5000	0.51	by the metre
19707000CZ		FO Universal DLTS 4x12	Cca-s1a,d1,a1	48	5	lime green	G50/125 OM5	11.4	156	175	5000	9000	1500	5000	0.51	by the metre
19710200CZ		FO Universal DLTS 6x12	Cca-s1a,d1,a1	72	6	yellow	E9/125 G.652.D OS2	12.2	164	185	5000	9000	1500	5000	0.539	by the metre
19710300CZ		FO Universal DLTS 8x12	Cca-s1a,d1,a1	96	8	yellow	E9/125 G.652.D OS2	13.5	197	205	5000	9000	1500	5000	0.65	by the metre
19710800CZ		FO Universal DLTS 8x12	Cca-s1a,d1,a1	96	8	turquoise	G50/125 OM3	13.5	197	205	5000	9000	1500	5000	0.65	by the metre
19708800CZ		FO Universal DLTS 8x12	Cca-s1a,d1,a1	96	8	heather violet	G50/125 OM4	13.5	197	205	5000	9000	1500	5000	0.65	by the metre
19710400CZ		FO Universal DLTS 10x12	Cca-s1a,d1,a1	120	10	yellow	E9/125 G.652.D OS2	14.8	236	225	5000	9000	1500	5000	0.788	by the metre
19710500CZ		FO Universal DLTS 12x12	Cca-s1a,d1,a1	144	12	yellow	E9/125 G.652.D OS2	16.3	288	245	5000	9000	1500	5000	0.958	by the metre
19710900CZ		FO Universal DLTS 12x12	Cca-s1a,d1,a1	144	12	turquoise	G50/125 OM3	16.3	288	245	5000	9000	1500	5000	0.958	by the metre
19708900CZ		FO Universal DLTS 12x12	Cca-s1a,d1,a1	144	12	heather violet	G50/125 OM4	16.3	288	245	5000	9000	1500	5000	0.958	by the metre

EN 60332-3-Series superseded by EN 50575