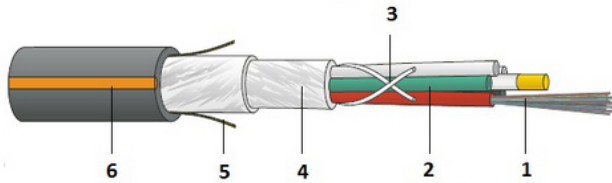


# FO Universal wbGGFR Easy Blow / U-DQ(ZN)BH

Fire resistant, optimized for blowing, up to 288 fibres, Euroclass Eca metal-free, dry interstices, rodent protection, in accordance with IEC 60332.1 and IEC 60332.3 C



- 1 ≤ 24 fibres
- 2 Loose tube
- 3 Swelling tape
- 4 Glass armour
- 5 Ripcord
- 6 FR/LS0H sheath (black)



## DESCRIPTION

Robust, metal-free fibre optic outdoor and indoor cable with stranded loose tubes.

Optimized for blowing through thermoplastic ducts:

Its good greasing characteristics, smooth and strong sheath surface and good internal strength provide for an axial linear motion and reduced friction (in comparison with standard indoor/outdoor cables).

Non-metallic rodent protection.

Flame retardant and fire resistant sheath (black) with very low fire load.

The coloured ripcords are easy to identify and enable the safe opening of the cable sheath.

## APPLICATION

For blowing through thermoplastic ducts with blowing lengths of up to 2000 m.

In Premises cabling for LAN backbones (Campus and Vertical/Riser cabling) as well as for tunnels.

## OPTICAL PROPERTIES

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

## MECHANICAL PROPERTIES

Temperature range	storage:	-25 / +70°C	IEC 60794-1-2 F1
	during installation:	-10 / +50°C	
	in operation:	-25 / +60°C	
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 60794-1-2 F5		

## STANDARDS

UV resistance	EN50289-4-17:2015 (UVA-340)
Reaction to fire (Euroclasses)	EN 13501-6: E <sub>ca</sub>
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, EN 60332-3-24, VDE 0482-332-3-24
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2

## VERSIONS

Article No.	DoP	Product	Reaction to fire (Euroclasses)	Number of fibres	Loose Tubes	Sheath colour	Fibre type	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	Crush resistance short term [N]	Fire load [kWh/m]	PU
19060200EZ		FO Universal Easy Blow 1x12	Eca	12	5	black	E9/125 G.652.D OS2	12	113	180	9000 N	3000 N	5000 N	0.627	by the metre
19021500EZ		FO Universal Easy Blow 2x12	Eca	24	5	black	E9/125 G.652.D OS2	12	113	180	9000 N	3000 N	5000 N	0.627	by the metre
18664500EZ		FO Universal Easy Blow 2x12	Eca	24	5	black	G50/125 OM2	12	113	180	9000 N	3000 N	5000 N	0.627	by the metre

## FO Universal wbGGFR Easy Blow / U-DQ(ZN)BH

Fire resistant, optimized for blowing, up to 288 fibres, Euroclass Eca  
metal-free, dry interstices, rodent protection,  
in accordance with IEC 60332.1 and IEC 60332.3 C



19215600EZ		FO Universal Easy Blow 2x12	Eca	24	5	black	G50/125 OM3	12	113	180	9000 N	3000 N	5000 N	0.627	by the metre
19069200EZ		FO Universal Easy Blow 3x12	Eca	36	5	black	E9/125 G.652.D OS2	12	116	180	9000 N	3000 N	5000 N	0.627	by the metre
18731900EZ		FO Universal Easy Blow 3x12	Eca	36	5	black	G50/125 OM2	12	116	180	9000 N	3000 N	5000 N	0.627	by the metre
19021600EZ		FO Universal Easy Blow 4x12	Eca	48	5	black	E9/125 G.652.D OS2	12	113	180	9000 N	3000 N	5000 N	0.627	by the metre
19443100EZ		FO Universal Easy Blow 4x12	Eca	48	5	black	G50/125 OM3	12	113	180	9000 N	3000 N	5000 N	0.627	by the metre
19021700EZ		FO Universal Easy Blow 5x12	Eca	60	5	black	E9/125 G.652.D OS2	12	113	180	9000 N	3000 N	5000 N	0.627	by the metre
19021800EZ		FO Universal Easy Blow 6x12	Eca	72	6	black	E9/125 G.652.D OS2	12.8	113	195	9000 N	3000 N	5000 N	0.698	by the metre
19021900EZ		FO Universal Easy Blow 8x12	Eca	96	8	black	E9/125 G.652.D OS2	14	207	210	9000 N	3000 N	5000 N	0.925	by the metre
19022000EZ		FO Universal Easy Blow 10x12	Eca	120	10	black	E9/125 G.652.D OS2	15.4	207	230	9000 N	3000 N	5000 N	1.151	by the metre
19022100EZ		FO Universal Easy Blow 12x12	Eca	144	12	black	E9/125 G.652.D OS2	16.9	250	255	9000 N	3000 N	5000 N	1.367	by the metre
19170100EZ		FO Universal Easy Blow 12x24	Eca	288	12	black	E9/125 G.652.D OS2	18.8	357	285	9000 N	3000 N	5000 N	1.435	by the metre