



- 1 ≤ 24 fibres
- 2 Flame retardant protective coating
- 3 Glass armour
- 4 Ripcord
- 5 FR/LS0H sheath



DESCRIPTION

Metal-free fibre optic safety cable with multiple loose tubes, up to 60 fibres.
 The optimal combination of flame retardant fibre coating and flame-inhibiting stabilizing elements ensures enhanced functional integrity (System Circuit Integrity) in case of fire for 30 minutes (transmission of audio, video and 1Gbit/s signals approved by a certified test report).

APPLICATION

Safety applications in tunnels, underground railways, banks, insurance companies, large-scale industry.
 LAN backbone.
 Indoor and outdoor cabling.
 Can be installed in cable platforms, trays, ducts and vertical shafts.
 Can be spliced in FO distributors.

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 60794-1-2 E1		
Crush resistance:	IEC 60794-1-2 E3		
Repeated bending:	IEC 60794-1-2 E6		
Torsion:	IEC 60794-1-2 E7		
Bend:	IEC 60794-1-2 E11		
Water penetration:	IEC 60794-1-2 F5		

STANDARDS

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 50267-2-1/-2-2, VDE 0482-267-2-1/-2-2

Flame propagation	IEC 60332-1/-2, EN 60332-1-2, VDE 0482-332-1-2
Flame spread	IEC 60332.3 C, EN 50266-2-4, VDE 0482-266-2-4
Smoke density	IEC 61034-1/-2, EN 61034-1/-2 (EN 50268-1/-2), VDE 0482-1034-1/-2 (VDE 0482-268-1/-2)
Circuit Integrity (FE180)	IEC 60331-11, IEC 60331-25, VDE 0472 part 814, EN 50200 PH 90, EN 50362, VDE 0482-200, VDE 0482-362
System circuit integrity	according to DIN 4102 part 12, VKF Fire Safety Application No. 24176

VERSIONS

Article Number	Product	Fibres number	Sheath colour	Fibre type	Loose Tubes	Sheath Ø [mm]	Weight [kg/km]	Bending radius [mm]	Tensile load [N]	Crush resistance continuous [N]	Crush resistance short term [N]	Fire load [kWh/km]	Fire load [MJ/km]
190223	wbGGFR Safety 2 x 12	24	red	E9/125 G.652.D	2	12.5	166	190	6000	3000	5000	733	2639
187294	wbGGFR Safety 2 x 12	24	red	G50/125 OM2	2	12.5	166	190	6000	3000	5000	733	2639
187360	wbGGFR Safety 2 x 12	24	red	G50/125 OM3	2	12.5	166	190	6000	3000	5000	733	2639
193454	wbGGFR Safety 2 x 12	24	red	G50/125 OM4	2	12.5	166	190	6000	3000	5000	733	2639
on request	wbGGFR Safety 2 x 12	24	red	G62.5/125 OM1	2	12.5	166	190	6000	3000	5000	733	2639
190224	wbGGFR Safety 3 x 12	36	red	E9/125 G.652.D	3	12.5	166	190	6000	3000	5000	733	2639
on request	wbGGFR Safety 3 x 12	36	red	G50/125 OM2	3	12.5	166	190	6000	3000	5000	733	2639
on request	wbGGFR Safety 3 x 12	36	red	G50/125 OM3	3	12.5	166	190	6000	3000	5000	733	2639
193455	wbGGFR Safety 3 x 12	36	red	G50/125 OM4	3	12.5	166	190	6000	3000	5000	733	2639
on request	wbGGFR Safety 3 x 12	36	red	G62.5/125 OM1	3	12.5	166	190	6000	3000	5000	733	2639
190225	wbGGFR Safety 4 x 12	48	red	E9/125 G.652.D	4	12.5	166	190	6000	3000	5000	733	2639
192119	wbGGFR Safety 4 x 12	48	red	G50/125 OM2	4	12.5	166	190	6000	3000	5000	733	2639
191191	wbGGFR Safety 4 x 12	48	red	G50/125 OM3	4	12.5	166	190	6000	3000	5000	733	2639
193456	wbGGFR Safety 4 x 12	48	red	G50/125 OM4	4	12.5	166	190	6000	3000	5000	733	2639
on request	wbGGFR Safety 4 x 12	48	red	G62.5/125 OM1	4	12.5	166	190	6000	3000	5000	733	2639
190226	wbGGFR Safety 5 x 12	60	red	E9/125 G.652.D	5	12.5	166	190	6000	3000	5000	733	2639
on request	wbGGFR Safety 5 x 12	60	red	G50/125	5	12.5	166	190	6000	3000	5000	733	2639

request	Safety 5 x 12			OM2									
190605	wbGGFR Safety 5 x 12	60	red	G50/125 OM3	5	12.5	166	190	6000	3000	5000	733	2639
193457	wbGGFR Safety 5 x 12	60	red	G50/125 OM4	5	12.5	166	190	6000	3000	5000	733	2639
on request	wbGGFR Safety 5 x 12	60	red	G62.5/125 OM1	5	12.5	166	190	6000	3000	5000	733	2639