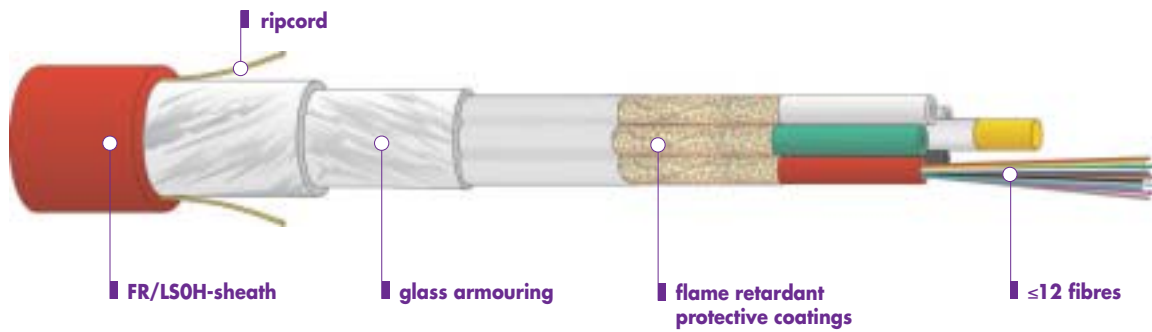




## Optofil-wbGGFR-Safety

Life safety cable for indoor and outdoor use

nonmetallic, water resistant, rodent protected,  
 flame retardant to IEC 60332.1 and IEC 60332.3 C,  
 functional integrity according to DIN 4102-12 30Min. (E30)



## Product information

### Features

Fibre-optic safety cable in twisted, metal-free construction with up to 60 fibres. The optimum matching of fibre coating and flame-inhibiting stabilizing elements ensures functional integrity for 30 minutes.

### Application

Safety application in tunnels, underground railways, banks, assurances, large scale industry  
 LAN Backbone  
 Indoor and outdoor use can be laid on cable platforms, parapet ducts and vertical shafts  
 can be spliced in cable terminal distributors

### optical characteristics

The cables are available with different types of Optofil-Safety fibre (see fibre data sheets)

### mechanical characteristics

temperature range	storage	-25 / +70°C	EN 60794-1-2 F1
	pulling in	-10 / +50°C	
	operation	-25 / +60°C	
tensile performance		EN 60794-1-2 E1	
crush resistance		EN 60794-1-2 E3	
repeated bending		EN 60794-1-2 E6	
torsion		EN 60794-1-2 E7	
bend		EN 60794-1-2 E11	
water penetration		EN 60794-1-2 F5	

### general characteristics

Printing Dätwyler Optofil Safety 48 E9  
 C-no. 10865 ~ ~ 2480 m ~ ~

Zero halogen, non-corrosive gasses	(DIN VDE 0472-813) new: DIN VDE 0482-267, EN 50267 (CENELEC HD 602), IEC 60754-2
Self-extinguishing	(DIN VDE 0472-804) new: DIN VDE 0482-265, EN 50265 (CENELEC HD 405.1), IEC 60332-1
Minimum fire propagation	DIN VDE 0472-804/testing method C, CENELEC HD 405.3, IEC 60332-3 cat. C
Minimal smoke	(DIN VDE 0472-816) new: DIN VDE 0482-268, EN 50268 (CENELEC HD 606), IEC 61034
Circuit integrity E30*	according to DIN 4102-12

\*Circuit integrity is dependent on installation method.

description U-DQ(ZN)BH nxm	no. of fibres max.	loose tube max.	cableØ mm	weight kg/km	bending radius mm	tensile load N	crush resistance		Fire load	
							continuous N/cm	short term N/cm	kWh/km	MJ/km
Optofil-wbGGFR-Safety 2x12	24	2	12.5	170	190	6000	300	500	733	2639
Optofil-wbGGFR-Safety 3x12	36	3	12.5	170	190	6000	300	500	733	2639
Optofil-wbGGFR-Safety 4x12	48	4	12.5	170	190	6000	300	500	733	2639
Optofil-wbGGFR-Safety 5x12	60	5	12.5	170	190	6000	300	500	733	2639

**Versions**

U-DQ(ZN)BH nxm		fibre number	Article No.	Article No.	Article No.
description			E9/125	G50/125	G62.5/125
Optofil-wbGGFR-Safety 2 x 12		24	186 382	on request	not available
Optofil-wbGGFR-Safety 3 x 12		36	186 383	on request	not available
Optofil-wbGGFR-Safety 4 x 12		48	186 384	on request	not available
Optofil-wbGGFR-Safety 5 x 12		60	186 385	on request	not available