

PREVENTIVE FIRE PROTECTION

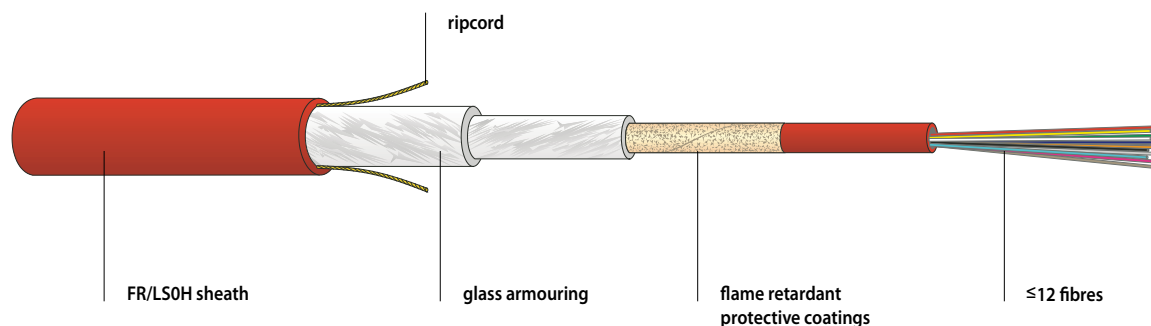
ZGGFR-Safety / U-DQ(ZN)BH

Safety cable for indoor and outdoor use

nonmetallic, water resistant, rodent protected, flame retardant

in accordance with IEC 60332.1 and IEC 60332.3-24 Cat. C

functional integrity with reference to DIN 4102-12 30Min. (E30)



PRODUCT INFORMATION



FEATURES

Fibre-optic safety cable in metal-free central tube design with up to twelve fibres. The optimum matching of fibre coating and flame-inhibiting stabilizing elements ensures functional integrity for 30 minutes.

APPLICATION

Safety applications in tunnels, underground railways, banks, insurance companies, large scale industry
LAN backbones
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	IEC 60794-1-2 F1
	pulling in	-10 / +50°C	
	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		

GENERAL CHARACTERISTICS

Printing example DÄTWYLER OPTOFIL SAFETY 12E9 G.652D FR/LSOH DIN 4102-12 (30)

IEC 60331-25 (180)

C-no. 10865 ~ 2480 m ~ SWISS MADE

 Zero halogen,
non corrosive gases

 Flame propagation

 Flame spread

 Smoke density

 Circuit integrity

 System Circuit integrity
[E30]*

IEC 60754-1/-2, EN 50267-2-1/-2-2, VDE 0482-267-2-1/-2-2

IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2

IEC 60332-3-24 Cat.C, EN 60332-3-24 Cat. C, VDE 0482-332-3-24 Cat.C

IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2

IEC 60331-11/-25 (180 minutes), VDE 0472 part 814,

EN 50200, VDE 0482-200

with reference to DIN 4102 part 12

*Circuit integrity is dependent on installation method.

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description		no. of fibres	loose tube	cableØ	weight	bending radius	tensile load	crush resistance		Fire load	
U-DQ(ZN)BH 1xm		max.	max.	mm	kg/km	mm	N	continuous N/cm	short term N/cm	kWh/km	MJ/km
ZGGFR-Safety	1x12	12	1	7.8	72	120	1000	200	500	301	1084

VERSIONS

U-DQ(ZN)BH 1xm		fibre		Article No.		Article No.		Article No.		Article No.
description		numbe		E9/125 G.652.D		G50/125 OM2		G50/125 OM3		G62.5/125 OM1
ZGGFR-Safety	1x4	4		187 288		186 363		190 604		186 638
ZGGFR-Safety	1x6	6		191 867		186 639		191 851		190 792
ZGGFR-Safety	1x8	8		on request		190 621		on request		on request
ZGGFR-Safety	1x12	12		190 719		187 293		191 796		187 305