

PREVENTIVE FIRE PROTECTION

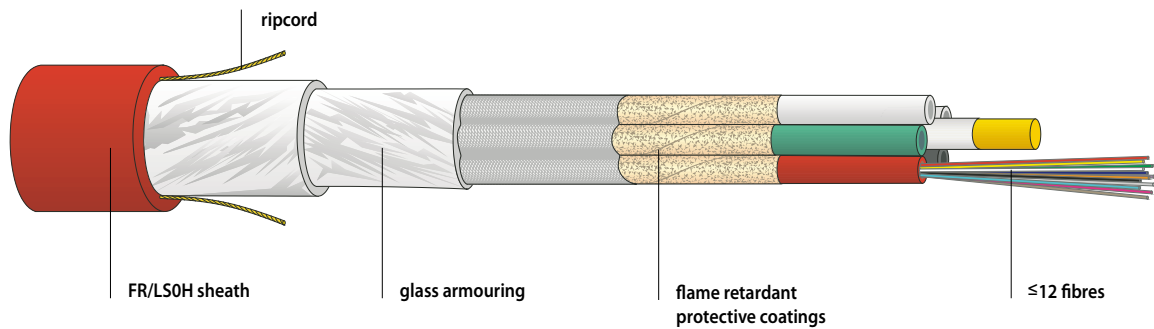
wbGGFR-Safety / U-DQ(ZN)BH

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 60E9 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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PRODUCT INFORMATION

description		no. of fibres	loose tube	cableØ	weight	bending radius	tensile load	crush resistance		Fire load	
U-DQ(ZN)BH nxm		max.	max.	mm	kg/km	mm	N	continuous N/cm	short term N/cm	kWh/km	MJ/km
wbGGFR-Safety	2x12	24	2	12.5	166	190	6000	300	500	733	2639
wbGGFR-Safety	3x12	36	3	12.5	168	190	6000	300	500	733	2639
wbGGFR-Safety	4x12	48	4	12.5	170	190	6000	300	500	733	2639
wbGGFR-Safety	5x12	60	5	12.5	166	190	6000	300	500	733	2639

VERSIONS

U-DQ(ZN)BH nxm		fibre	Article No.	Article No.	Article No.	Article No.
description		number	E9/125 G.652.D	G50/125 OM2	G50/125 OM3	G62.5/125 OM1
wbGGFR-Safety	2 x 12	24	190 223	187 294	187 360	on request
wbGGFR-Safety	3 x 12	36	190 224	on request	on request	on request
wbGGFR-Safety	4 x 12	48	190 225	192 119	191 191	on request
wbGGFR-Safety	5 x 12	60	190 226	on request	190 605	on request