

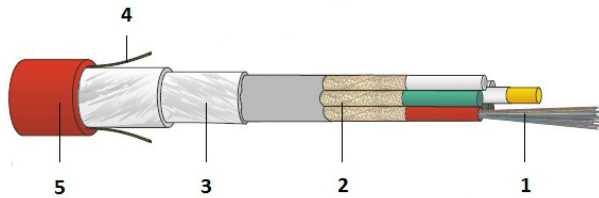
FO Universal wbGGFR Safety / U-DQ(ZN)BH

Safety cable E30*, up to 60 fibres

metal-free, water resistant, rodent protection,

in accordance with IEC 60332-1-2 and IEC 60332-3-24

30 minutes System Circuit Integrity* with reference to DIN 4102-12



1 ≤ 12 fibres

2 Flame retardant protective coating

3 Glass armour

4 Ripcord

5 FR/LSOH 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 also be installed in cable platforms, trays, ducts and vertical shafts (without System Circuit Integrity*).

Can be spliced in FO distributors.

Construction

Outer sheath material FRNC/LSZH

General Properties

Imprint	DATWYLER «cable type» «Datwyler designation» «DIN designation» «no. of fibres» «fibre type» «add. text» «batch no.» «meter marks»
Installation temperature	-10 °C - +50 °C
Operating temperature	-25 °C - +70 °C
Storage temperature	-25 °C - +70 °C

Standards

Tensile performance	IEC 60794-1-21 E1
Crush resistance	IEC 60794-1-21 E3
Impact	IEC 60794-1-21 E6
Repeated bending	IEC 60794-1-21 E7
Torsion	IEC 60794-1-21 E11
Bend	IEC 60794-1-22 F5
Reaction to fire (Euroclasses)	not classified
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
UV resistance	EN 50289-4-17

Note

* System Circuit Integrity is dependent on installation method. Certified clamps, ducts, conduits, etc. are mandatory.

Versions

Material number	Product	Outer sheath colour	Fibre type	Outer sheath diameter [mm]	Bending radius [mm]	Weight [kg/km]	Tensile load [N]	Crush resistance short term [N]	Crush resistance continuous [N]	Fire load [kWh/m]	Packing unit
194430	FO Universal Safety 1x12	red	E9/125 G.652.D OS2	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
190223	FO Universal Safety 2x12	red	E9/125 G.652.D OS2	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
187360	FO Universal Safety 2x12	red	G50/125 OM3	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
193454	FO Universal Safety 2x12	red	G50/125 OM4	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
190224	FO Universal Safety 3x12	red	E9/125 G.652.D OS2	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
193455	FO Universal Safety 3x12	red	G50/125 OM4	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
194575	FO Universal Safety 4x12	red	E9/125 G.652.D BLO	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
190225	FO Universal Safety 4x12	red	E9/125 G.652.D OS2	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
191191	FO Universal Safety 4x12	red	G50/125 OM3	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
193456	FO Universal Safety 4x12	red	G50/125 OM4	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
190226	FO Universal Safety 5x12	red	E9/125 G.652.D OS2	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
190605	FO Universal Safety 5x12	red	G50/125 OM3	12.5	190	181	6,000	5,000	3,000	0.733	by the metre
193457	FO Universal Safety 5x12	red	G50/125 OM4	12.5	190	181	6,000	5,000	3,000	0.733	by the metre