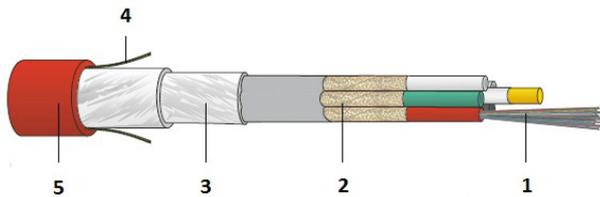


FO Universal wbGGFR Safety / U-DQ(ZN)BH

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
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General properties

Maximum number of fibres	72
Installation temperature	-10 °C - +50 °C
Storage temperature	-25 °C - +70 °C
Operating temperature	-25 °C - +70 °C
Imprint	DATWYLER «cable type» «Datwyler designation» «DIN designation» «no. of fibres» «fibre type» «add. text» «batch no.» «meter marks»
Field of application	Universal

Standards

Tensile performance	IEC 60794-1-21 E1
Crush resistance	IEC 60794-1-21 E3
Impact	IEC 60794-1-21 E4
Repeated bending	IEC 60794-1-21 E6
Torsion	IEC 60794-1-21 E7
Bend	IEC 60794-1-21 E11
Temperature cycling	IEC 60794-1-22 F1
Water penetration	IEC 60794-1-22 F5
Circuit integrity	IEC 60331-11, IEC 60331-25 (FE180), EN 50200 PH30, VDE 0482-200
System circuit integrity	with reference to DIN 4102-12, VKF Fire Safety Application No. 24176
Smoke density	IEC 61034-1/-2, EN 61034-1/-2, VDE 0482-1034-1/-2
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
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	Fibre category	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	GTIN / EAN
194430	FO Universal wbGGFR Safety 1x12	red	E9/125 G.652.D OS2	OS2	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	
190223	FO Universal wbGGFR Safety 2x12	red	E9/125 G.652.D OS2	OS2	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	
187360	FO Universal wbGGFR Safety 2x12	red	G50/125 OM3	OM3	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	
193454	FO Universal wbGGFR Safety 2x12	red	G50/125 OM4	OM4	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	
190224	FO Universal wbGGFR Safety 3x12	red	E9/125 G.652.D OS2	OS2	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	
193455	FO Universal wbGGFR Safety 3x12	red	G50/125 OM4	OM4	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	
194575	FO Universal wbGGFR Safety 4x12	red	E9/125 G.652.D BLO	OS2	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	
190225	FO Universal wbGGFR Safety 4x12	red	E9/125 G.652.D OS2	OS2	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	
191191	FO Universal wbGGFR Safety 4x12	red	G50/125 OM3	OM3	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	
193456	FO Universal wbGGFR Safety 4x12	red	G50/125 OM4	OM4	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	
190226	FO Universal wbGGFR Safety 5x12	red	E9/125 G.652.D OS2	OS2	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	

Material number	Product	Outer sheath colour	Fibre type	Fibre category	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	GTIN / EAN
190605	FO Universal wbGGFR Safety 5x12	red	G50/125 OM3	OM3	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	
193457	FO Universal wbGGFR Safety 5x12	red	G50/125 OM4	OM4	12.5	190	181	6,000	5,000	3,000	0.733	by the metre	

Subject to technical modification

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