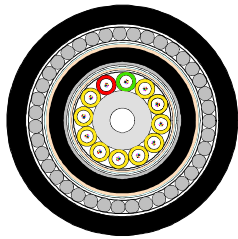
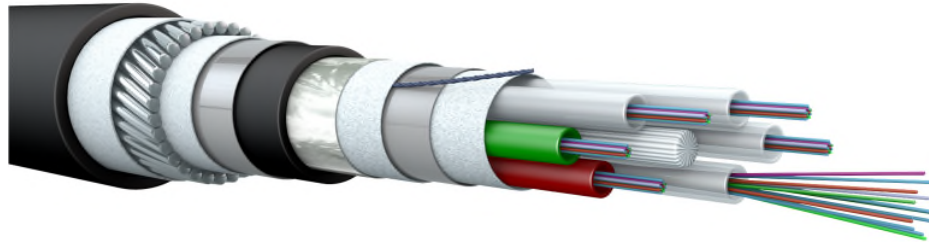


Firetuf® OFC-LT-SWA

Steel wire armoured, fire resistant cable, double LSZH sheathed, up to 144 fibres.



Sample Drawing : A-DQ(L)T3HT3RH 144E 0S2



Application and Installation

Installation in tunnels and subways where there are requirements for reaction to fire
Difficult installation environments where fire safety is a primary concern
For conditions with risk of severe rodent attacks

Standards

EN 187 000, IEC 60794-3, IEC 60794-3-10, IEC 60794-3-12, ISO 11801-1, EN 50 173-1

Flame resistance

IEC 60331-25 (90)
IEC 60331-1 PH 90 (Based on)
IEC 60332-1-2
IEC 60332-3-24 = IEC 60332-3C
IEC 60754-1
IEC 60754-2
IEC 61034-2

Fire resistance: 90 minutes at 750 °C (No fibre break)
Fire resistance with impact 90 minutes 830 °C (No fibre break)
Single vertical wire test
Vertically-mounted bunched wires and cables
No halogens
No acid matters
No dense smoke

Firetuf® OFC-LT-SWA

Construction

Central strength member	ø2.3/3.0 mm FRP rod with LSZH covering if needed
Lose tube	ø2.3 mm special Jelly filled loose tubes with max. 12 fibres each. Tube colours as per B04, fibre colour coding as per B07
Water blocking	The core is water blocked using swell able tape and tread
Wrapping	Layer of fire blocking tape(s)
Moisture barrier	both sides copolymer coated aluminium tape, one rip cord beneath the tape
Inner Sheath	1.5 mm black Afumex™, halogen free, flame retardant thermoplastic sheathing compound according to EN 50290-2-27, UV stabilised
Wrapping	Layer of fire blocking tape(s)
Ripcord	1
Armour	Ø1.6 mm zinc coated steel wires according to IEC 60502
Ripcord	1
Sheath	2.0 mm black Afumex™, halogen free, flame retardant thermoplastic sheathing compound according to EN 50290-2-27, UV stabilised
Sheath marking	DRAKA FIRETUF OFC-LT-SWA <Fibre count> <Fibre type <material code><factory code><production order no><Meter mark>

Physical properties

Attribute	IEC 60794-1-21/22 Method	Limits		
Fibre count	-	Up to 72	96	144
Nominal diameter [mm]	-	23.4	24.8	27.9
Nominal weight [kg/km]	-	908	1015	1249
Maximum installation tensile strength [N]	E1	6000 ($\Delta l/l$ fibre \leq 0.33%, $\Delta\alpha$ reversible)		
Crush (compressive strength) [N/100 mm]	E3	3000 ($\Delta\alpha$ reversible)		
Impact [J]	E4	20, 3 impacts, r=300mm ($\Delta\alpha$ reversible)		
Repeated bending	E6	R = 20x cable ø, 100 N, 5 cycles $\Delta\alpha$, \leq 0.05 dB* (after the test)		
Kink	E10	The cables do not form a kink when a loop is drawn together to a radius 20 times the cable nominal diameter		
Minimum bending radius	E11	R = 15 x cable diameter without tension R = 20 x cable diameter with maximum tension		
Temperature range	F1	Installation	0 °C to 50 °C	
		Operation	-40 °C to 70 °C $\Delta\alpha$, \leq 0.05**	
		Storage	-40 °C to 70 °C	
Water penetration	F5B	No water on free end		

Notes:

* Values for single-mode fibres, all optical measurements performed at 1550 nm.

* Values for multi-mode fibres, all optical measurements performed at 850 nm or 1300 nm

** 0.10 dB /km or 0.10 dB (tensile and crush test will not be performed for MM fibres)

Product codes – ordering information

Product code	Product description	Fibre count	Fibre type	Fibre data sheet

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