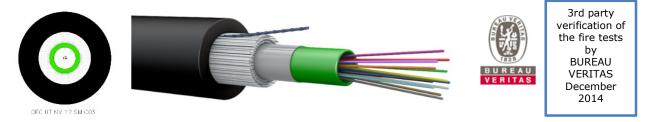




Firetuf[™] OFC-UT-NM: Fire Resistant Universal Central Tube Cable

Indoor/Outdoor, non-metallic, LSHF-FR sheathed optical cable, up to 24 fibers. VDE: A/I-DQ(ZN)H



Application and Installation

The application of this cable is circumstances where a very high degree of fire safety is required as the cable will function during a fire, has limited fire spread, has limited smoke generation and is halogen free.

The typical installation environment is indoor and indoor/outdoor in and between public buildings, in tunnels, metro lines and other places where one need very high degree of fire safety and support for critical communication. This cable is also suitable shipboard application.

The primary means of installation is on cable ladders, raceways and cable trays. The cable may also be pulled or blown into ducts over short distances. The cable can be installed outdoor in the open, but shall be not be installed directly exposed the sun.

Standards

ISO 11801-1, EN 50173-1:2002, IEC 60794-1

Fire Rating

Fire resistance: 120 minutes at 750 °C (No fibre break)					
Fire resistance with fire and impact 120 minutes 830 °C (No fibre break)					
Fire resistance until 15 minutes of fire and impact alone , followed by 15 minutes of fire , impact and water spray at 830 °C (No fibre break)					
Fire resistance until 60 minutes of fire and impact alone , followed by 60 minutes of fire , impact and water spray at 930 °C (No fibre break)					
Single vertical wire test					
Vertically-mounted bunched wires and cables					
No halogens					
No acid matters					
No dense smoke					

Firetuf™





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Construction

Loose tube	Ø4.0 m	m jelly filled loose tube green colored with up to 2 - 24 fibres				
Fibre colour code	1	Red	13	Yellow w/mark per 100 mm		
	2	Green	14	White w/mark per 100 mm		
	3	Blue	15	Grey w/mark per 100 mm		
	4	Yellow	16	Turquoise w/mark per 100 mm		
	5	White	17	Orange w/mark per 100 mm		
	6	Grey	18	Pink w/mark per 100 mm		
	7	Brown	19	Yellow w/mark every 50 mm		
	8	Violet	20	White w/mark every 50 mm		
	9	Turquoise	21	Grey w/mark every 50 mm		
	10	Black	22	Turquoise w/mark every 50 mm		
	11	Orange	23	Orange w/mark every 50 mm		
	12	Pink	24	Pink w/mark every 50 mm		
Fire barrier	Tape(s)					
Strength member	Water blocked E-Glass fibre elements					
Ripcord	1					
Sheath	2.5 mm black LSHF-FR sheath according to EN 50290-2-27, UV stabilised					
Print legend	Draka Firetuf OFC-UT-NM <fibre count=""> <fibre type=""><fibre brand=""><item no="">22<batch< td=""></batch<></item></fibre></fibre></fibre>					
-	Number> <fibre count=""> <fibre family=""> <mode diameter="" field=""> /125 <transmission class=""></transmission></mode></fibre></fibre>					
	> <meter mark=""></meter>					

Physical Properties

IEC 60794-1-21/22

Property	Test method	Value		
Nominal outer diameter	-	12.1 mm		
Nominal weight	-	167 kg/km		
Maximum installation tensile strength	E1	2000 N (Δl/l fibre \leq 0.5%, Δα reversible) *		
Compressive strength (crush)	E3	1500 N / 100 mm, max 5 min ($\Delta \alpha$ reversible) *		
Impact	E7	No fibre break; 5 Nm, 3 impacts, r=300mm,		
Torsion	E7	5 cycles ± 1 turn		
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 20xD (Cable diameter) mm		
Min. bending radius, unloaded	E11	R = 121 mm		
Min. bending radius, loaded	-	R = 240 mm		
Temperature range	F1	Storage: -30°C to +60°C Installation: 0°C to +50°C Operation: -25°C to +70°C. ($\Delta \alpha$ 0.05 dB /km)**		
Water penetration	F5B	No water leakage after 24 hour, sample=3m, water=1m,		

**) 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 performed for MM fibres). Please note that attenuations will measured at only 1310 nm and 1550 nm for single mode fibre cables.







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Product Codes

Product description	Fibre count	Fibre type	Fibre data sheet
	Product description	Droduct description	Product description Eibre type

Delivery: Wooden drum with protection. Standard delivery length: 4 km with a tolerance of -+ 5%.

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All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group: any modification or alteration afterwards of product may give different result.

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