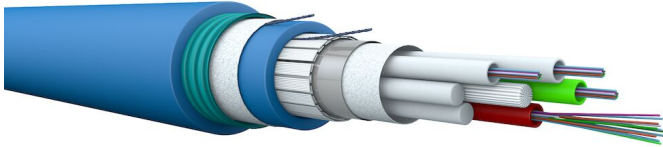


Firetuf™ Fire Resistant Armoured Loose Tube Cable

2700N, LT up to 144 fibres, glass yarns, steel tape, LSHF-FR sheath



GENERAL INFO

This fibre optic cable features a stranded gel-filled loose tube design with up to 144 fibres, with 12-fibre per unit, providing robust protection and high performance. It is UV-resistant and equipped with corrugated steel tape armouring, ensuring durability and longevity. The cable is longitudinally water blocked and rodent-proof, with a tensile strength of 2.7kN. The jacket is made of halogen-free, flame-retardant material, making it suitable for both outdoor and indoor use. It is ideal for use in public buildings with high personal risk and can also be used for Fire & Safety applications. Use outdoors for duct installation and as a fire-resistant and flame-retardant cable indoors. Designed for a wide range of applications, this cable is ideal for LAN, MAN and WAN backbones. Its versatility and reliability make it perfect for mixed indoor and outdoor installations. DIN/VDE: U-DQ(ZN)HQ(SR)H

Latest version of this data sheet is available for download: [ProductFamily377214](#)

CERTIFICATIONS AND DESIGN STANDARDS

RoHS



ISO/IEC 11801

EN 50173

IEC 60794-1-1

IEC 60794-1-21

IEC 60794-1-22

IEC 60754-2

IEC 60332-1-2

IEC 60332-3-24

IEC 61034-2

EN 50200

IEC 60331-1

IEC 60331-25

Generic telecom cabling for customer premises
 Information technology - Generic cabling systems
 Generic Specification Fibre Optic Cables
 Mechanical Test Methods
 Environmental Test Procedures
 Weighted Values of pH and Conductivity
 Single wire fire test
 Bundled fire test
 Smoke Density
 Fire resistance at 830°C during 90min + mechanical impacts
 Fire resistance at 830°C during 90min (for D>20mm)
 Fire resistance at 750°C during 90min

APPLICATION PROPERTIES

Resistant to UV

Outdoor installation With rodent protection

Operation temperature (min) [°C]

Installation temperature (min) [°C]

Storage temperature (min) [°C]

Bending radius (rule)

UV stabilised

Yes

-40 and (max) [°C] 80

-30 and (max) [°C] 70

0 and (max) [°C] 50

During installation (loaded) = 20xOD, Permanent (unloaded) = 15xOD

CABLE CONSTRUCTION

Type of tube	Stranded loose tube with Ø2.3 mm gel-filled loose tubes with up to 12 fibres each
Longitudinal water blocking cable and Radial water blocking cable	No
Rip cord	Yes
Material inner sheath	Low smoke zero halogen
Rip cord	Yes
Armouring/reinforcement	Steel, uncoated Armouring tape
Material outer sheath	Low smoke zero halogen
Cable shape	Round
Cable marking example	PRYSMIAN Firetuf OFC-LT-CST "Fibre count" "Fibre type" "Fibre brand" "Item No" "Batch Number" "Fibre count" "Fibre family" "Mode field diameter" /125 "Transmission Class" "Meter mark"

* Longitudinal water blocking test method according to IEC 60794-1-22 F5B and limited to the gell filled cable core.

IDENTIFICATION

Fibre colour code	1 Red	7 Brown
<i>in accordance with IEC 60794-2 and VDE 0888 read more</i>	2 Green	8 Violet
	3 Blue	9 Turquoise
	4 Yellow	10 Black
	5 White	11 Orange
	6 Grey	12 Pink

Colour inner/outer sheath Blue,

MECHANICAL PROPERTIES

Crush	IEC 60794-1-21 E3	4,000 N/10cm
Max. tensile strength during installation	IEC 60794-1-21 E1	2,700 N
Permanent tensile strength	IEC 60794-1-21 E1	900 N
Impact test	IEC 60794-1-21 E4	10 N·m
Torsion test	IEC 60794-1-21 E7	5 cycles ±1turn
Kink	IEC 60794-1-21 E10	The cables do not form a kink when a loop is drawn together to a diameter 20 times the cable nominal diameter.

FIRE PROPERTIES

Flame retardant according to IEC 60332-1-2	Yes
Insulation integrity	PH 90
Insulation integrity (acc. IEC 60331)	Yes

CABLE DETAILS

Number of fibres	Number of fibres per tube	Nominal outer diameter [mm]	Min. bending radius, fixed [mm]	Min. permitted bending radius, during cable laying [mm]	Cable weight [kg/km]
24	12	18.3	183	366	529
72	12	18.3	183	366	529

ORDERING DETAILS

Product name	Number of fibres	Number of fibres per tube	Category (fibre)	Fibre datasheet	SAP code
UCFIBRE I/O Firetuf OFC-LT-CST 24 OS2	24	12	OS2	C17	OFC_LT_CST-24SM7A1
UCFIBRE I/O Firetuf OFC-LT-CST 72 OS2	72	12	OS2	C17	OFC_LT_CST-72SM7A1

Delivery note: wooden drum protected and standard delivery length: 2km \pm 5%.

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