

# Firetuf™ Fire Resistant Central Tube Cable

2000N, CT up to 24 fibres, glass yarns, LSHF-FR sheath



## GENERAL INFO

2000N, Ind/Out, gel-filled, water-blocked central tube cable, up to 24 fibres, glass yarn and LSHF-FR sheath. DIN/VDE: U-DQ(ZN)H

## CABLE FEATURES

- FO cable with central loose tube filled with gel for structured cabling.
- The cable is UV-resistant, longitudinally water blocked and rodent-protected with a tensile strength of 2kN.
- The jacket is made of halogen-free, flame-retardant material according to IEC60332-1-2; IEC60332-3-24; IEC60754-1; IEC60754-2; IEC61034 for use in public buildings with high personal risk and it can also be use for Fire&Safety applications.
- Fire resistant cable according to IEC 60331-25, EN 50200 PH120, EN 50200 Annex E PH30, IEC 60331-1 PH90 (based on for D> 20 mm) and BS 8434-2.
- Use outdoors for duct installation and as a fire resistant and flame retardant cable indoors.
- The fiber optic cable exceeds the requirements of EN50173-1, ISO/IEC11801 and EN/IEC60794-6.

More information on fiber optic cable applications: [read more](#)

Latest version of this data sheet is available for download: [ProductFamily377209\\_en.pdf](#)

## CERTIFICATIONS AND DESIGN STANDARDS



**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 60331-25**

**BS 8434-2**

**EN 50200 ANNEX E PH 30**

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 120min + mechanical impacts

Fire resistance at 750°C during 120min + 15min cooling down

Fire resistance until 60 minutes of fire and impact alone, followed by 60 minutes of fire, impact and water spray at 930 °C

Fire resistance until 15 minutes of fire and impact alone,

followed by 15 minutes of fire, impact and water spray at 830 °C

## APPLICATION PROPERTIES

Resistant to UV	UV stabilised
Outdoor installation With rodent protection	Yes
Operation temperature (min) [°C]	-25 and (max) [°C] 70
Installation temperature (min) [°C]	-30 and (max) [°C] 60
Storage temperature (min) [°C]	0 and (max) [°C] 50
Bending radius (rule)	During installation (loaded) = 20xOD, Permanent (unloaded) = 15xOD

## CABLE CONSTRUCTION

Cable marking example	PRYSMIAN Firetuf OFC-UT-NM "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 cable	Yes
Radial water blocking cable	Yes
Rip cord	Yes
Armouring/reinforcement	Yarns
Material outer sheath	Low smoke zero halogen
Type of tube	Central tube
Cable shape	Round
With rodent protection	Yes

## IDENTIFICATION

Fibre colour code	1 Red	13 Yellow w/mark every 100mm
<i>in accordance with IEC 60794-2 and VDE 0888 <a href="#">read more</a></i>	2 Green	14 White w/mark every 100mm
	3 Blue	15 Grey w/mark every 100mm
	4 Yellow	16 Turquoise w/mark every 100mm
	5 White	17 Orange w/mark every 100mm
	6 Grey	18 Pink w/mark every 100mm
	7 Brown	19 Yellow w/mark every 50mm
	8 Violet	20 White w/mark every 50mm
	9 Turquoise	21 Grey w/mark every 50mm
	10 Black	22 Turquoise w/mark every 50mm
	11 Orange	23 Orange w/mark every 50mm
	12 Pink	24 Pink w/mark every 50mm
Colour inner/outer sheath	Black, RAL 9005	

## MECHANICAL PROPERTIES

Nominal outer diameter		12.1 mm
Cable weight		167 kg/km
Crush test	IEC 60794-1-21 E3	1,500 N/10cm
Torsion test *	IEC 60794-1-21 E7	5 cycles ±1turn
Impact test	IEC 60794-1-21 E4	5 N-m
Max. tensile strength during installation	IEC 60794-1-21 E1	2,000 N
Permanent tensile strength		800 N
Kink test	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.
Water penetration	IEC 60794-1-22	No water on free end

## CABLE DETAILS

Product name	Number of fibres	Category (fibre)	Fibre datasheet	SAP code
UCFIBRE I/O Firetuf OFC-UT-NM 12 OS2	12	OS2	C17	OFC_UT_NM-12SM7A1
UCFIBRE I/O Firetuf OFC-UT-NM 24 OS2	24	OS2	C17	OFC_UT_NM-24SM7A1

*\*Items with C17 fibre datasheet available also with SM2D G.652.D/SM7A1 BendBright printing.*

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

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