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	Generic telecom cabling for customer premises
EN 50173	Information technology - Generic cabling systems
IEC 60794-1-1	Generic Specification Fibre Optic Cables
IEC 60794-1-21	Mechanical Test Methods
IEC 60794-1-22	Environmental Test Procedures
IEC 60754-2	Weighted Values of pH and Conductivity
IEC 60332-1-2	Single wire fire test
IEC 60332-3	Bundled fire test
IEC 61034-2	Smoke Density
EN 50200	Fire resistance at 830°C during 120min + mechanical impacts
IEC 60331-25	Fire resistance at 750°C during 120min + 15min cooling down
BS 8434-2	Fire resistance until 60 minutes of fire and impact alone, followed by 60 minutes of fire, impact and water spray at 930 °C
EN 50200 ANNEX E PH 30	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 *in accordance with IEC 60794-2 and VDE 0888 read more*	1 Red	13 Yellow w/mark every 100mm
	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 lenght: 2km ±5%.*

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