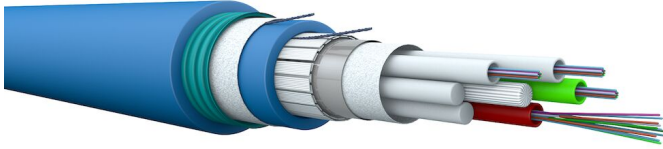


## Firetuf™ Fire Resistant Armoured Loose Tube Cable

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



### GENERAL INFO

2700N, Ind/Out, gel-filled, stranded water-blocked loose tube cable, up to 144 fibres, glass yarn, steel tape armouring and LSHF-FR sheath. DIN/VDE:U-DQ(ZN)HQ(SR)H.

### CABLE FEATURES

- FO cable with multi loose tube filled with gel for structured cabling.
- The cable is UV-resistant, with steel tape armoring, longitudinally water blocked and rodent-protected with a tensile strength of 2.7kN.
- 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 PH90 (for D≤ 20 mm), IEC 60331-1 PH90 (based on for D> 20 mm).
- 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: [ProductFamily377214\\_en.pdf](#)

### 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]

DE10\_OFC\_LT\_CST\_20250708

Installation temperature (min) [°C]

UV stabilised

Yes

-40 and (max) [°C] 80

P1

-30 and (max) [°C] 70

## 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	
Rip cord	Yes
Armouring/reinforcement	Steel, uncoated Armouring tape
Material outer sheath	Low smoke zero halogen
Cable shape	Round
Cable marking example	Draka 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 <a href="#">read more</a></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,

## 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 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.

## 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			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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