brand-rex head office
viewfield industrial estate
glenrothes, fife
KY6 2RS
united kingdom

tel: +44 (0) 1592 772124
fax: +44 (0) 1592 775314

brand-rex asia pacific
17/F prosperity centre
77-81 container port road
kwai chung
hong kong

tel: +852 3620 2602
fax: +852 3621 0018

brand-rex central and eastern europe

tel: +420 222 363 657

brand-rex france
120, rue jean jaurès
92 300 levallois perret
france

tel: +33 (0) 1 70 98 78 25
fax: +33 (0) 1 70 98 78 36

brand-rex germany
bunsenstraße 5
D-51647 gummersbach
germany

tel: +49 (0) 2261 814243
fax: +49 (0) 2261 814909

brand-rex IMEA
PO box 123908
M-3 mezzanine floor
sheikha sana building
sheikh zayed road
al wasl, dubai
united arab emirates

tel: +971 4 321 7525
fax: +971 4 321 7535

brand-rex italy
via giovanni da udine, 34
20156 milano
italy

tel: +39 02 3809 3711
fax: +39 02 30412014

brand-rex london
72 cannon street
london
EC4N 6AE
united kingdom

tel: +44 (0) 207 489 7637
fax: +44 (0) 207 113 2239

brand-rex nordic
brand-rex Sweden
kungsgatan 55, 5 tr
111 22 stockholm
sweden

tel: +46 (0) 704 621950

brand-rex portugal
lagoas park edifício 8 – piso 0
2740-244 porto salvo
portugal

tel: +351 21 421 4133
fax: +351 21 421 4135

brand-rex spain
avenida de la vega, 1
edificio 3. planta 2. oficina 11
28108 alcobendas
madrid, spain

tel: +34 914 905 919
fax: +34 916 573 331

www.brand-rex.com
marketing@brand-rex.com

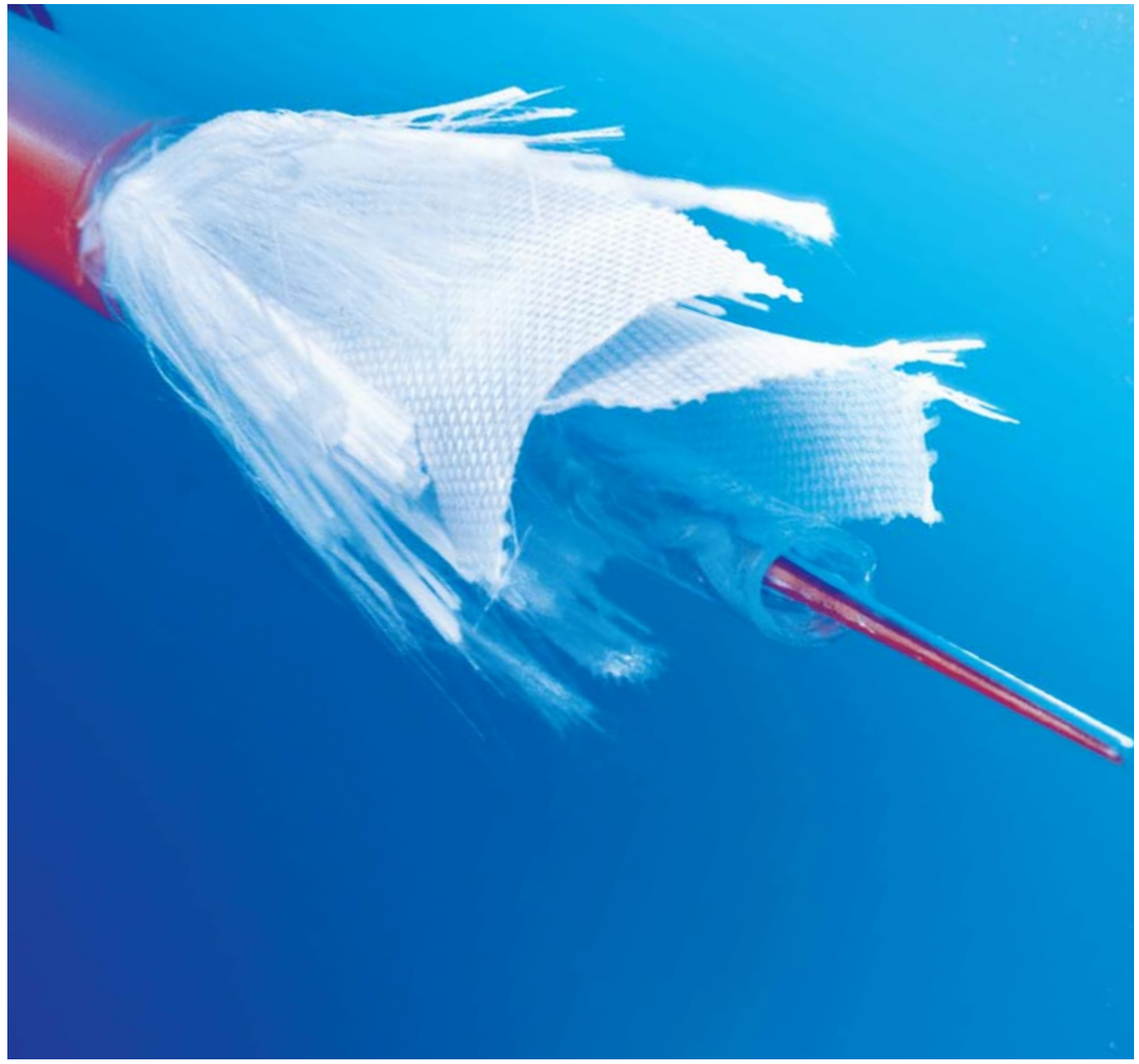
Literature Ref: FIRESURVIVAL/UK/2 0809

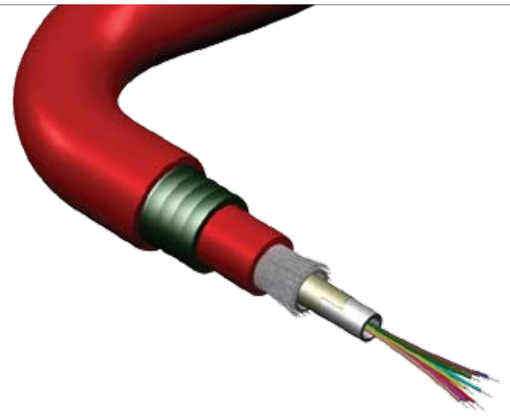
Brand-Rex

Optical Fire Survival Cable

FP FIBREPLUS

Brand-Rex





Fire Survival Cable - UFS 01
Unitube Universal Fire Survival Cable

Independent 3rd Part Tested (BRE) to the following standards:
IEC 60331-25 (90 mins @ 750°C)
BSEN 50200 PH120 (120 mins @ 830°C including 60 mins with water spray)
BS 8434-2 (120 mins @ 930°C including 60 mins with water spray)
IEC 60332-3-24
IEC 60332-1-2
Acid Gas Emissions: (IEC 60754-1)
Smoke Index:(IEC 61034)

Product Data

	Diameter mm	Weight kg / km	Max Tensile Load N	Min Static Bend mm	Min Dynamic Bend mm
4-24 Fibre	13.00	210	700	130	195

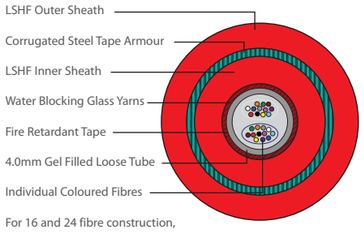
Product Part Numbering

	062*	050*	OM3*	008*
4 Fibre	EF062UNI4LSTALUFS RD	EF050UNI4LSTALUFS RD	EFOM3UNI4LSTALUFS RD	EF008UNI4LSTALUFS RD
8 Fibre	EF062UNI8LSTALUFS RD	EF050UNI8LSTALUFS RD	EFOM3UNI8LSTALUFS RD	EF008UNI8LSTALUFS RD
12 Fibre	EF062UNI12LSTALUFS RD	EF050UNI12LSTALUFS RD	EFOM3UNI12LSTALUFS RD	EF008UNI12LSTALUFS RD
16 Fibre	EF062UNI16LSTALUFS RD	EF050UNI16LSTALUFS RD	EFOM3UNI16LSTALUFS RD	EF008UNI16LSTALUFS RD
24 Fibre	EF062UNI24LSTALUFS RD	EF050UNI24LSTALUFS RD	EFOM3UNI24LSTALUFS RD	EF008UNI24LSTALUFS RD

* the full optical fibre specification is given in the main catalogue.

Fibre Selection

062 H62 | 050 H50 | OM3 Z50 | 008 D08



For 16 and 24 fibre construction, fibre are presented in 2 x bundles wrapped with identification threads.

PRODUCT DESCRIPTION:
In today's business environment the secure backup of business critical systems in the event of an emergency is a pre-requisite. The UFS 01 Fire Survival cable is used in areas where critical data transmission must continue when the building or structure in which it is installed is on fire. For this reason its use in large public buildings such as datacentres, airports, railway stations, stadia and onshore/ offshore industrial structures is becoming increasingly common. The use of the cable in building management, fire and security systems means that these vital systems will remain functional in the event of a real life incident which requires an emergency evacuation.

PRODUCT PERFORMANCE:

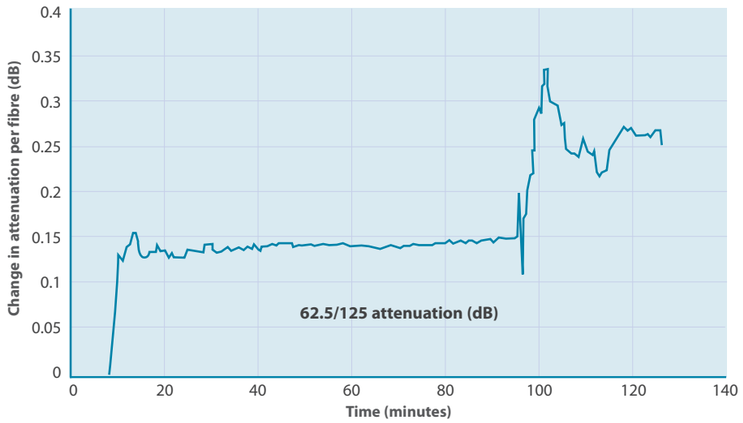
Crush (N):
(IEC 60794-1-2-E3)
2500
Impact (Nm):
(IEC 60794-1-2-E4)
30
Torsion (turns / m):
(IEC 60794-1-2-E7)
1

Temp - Operation:
(IEC 60794-1-2-F1)
-40°C to +70°C
Temp - Storage:
(IEC 60794-1-2-F1)
-40°C to +70°C
Temp - Installation:
(IEC 60794-1-2-F1)
-10°C to +70°C

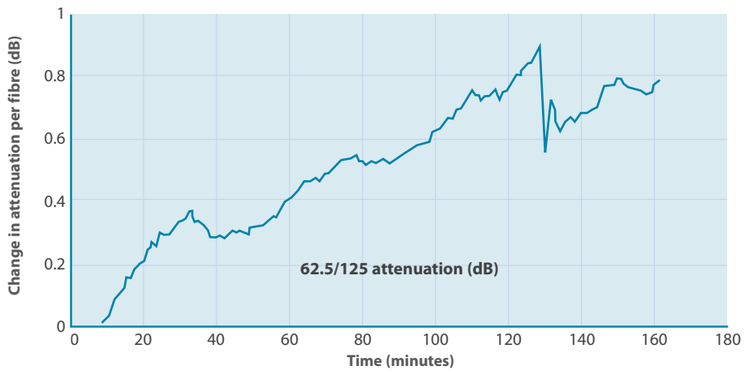
Test Details

Standard:	IEC 60331-25	BSEN 50200 PH120	BS 8434-2 (@ 930°C including 60 mins + water @ 930°C)
Function:	Circuit integrity of an optical fibre cable	Resistance to fire of unprotected small cables for use in emergency circuits	Fire integrity of electric cables. Part 2: Test for unprotected small cables for use in emergency circuits – BS EN 50200 with a 930°C and with water spray
Sample Length:	5,000mm	5,000mm	5,000mm
Test Duration:	90 minutes	120 minutes	120 minutes
Test Temperature:	750°C	830°C	930°C

Flame Test on HF062UNI8LSTALUFS cable
to IEC 60331-25 @ 750°C for 90 mins



BSEN 50200: 2000 Class PH120 Fire Resistance Test on HF062UNI8LSTALUFS



The UFS 01 Fire Survival Cable has been designed to meet the requirements of IEC 60794 and exceed the requirements of IEC 60331 Part 25.

The IEC 60331 Fire Test, commonly known as the Fire Survival Test, was developed for electric cables, but Part 25, issued in 1999, covers optical cables. The minimum flame temperature is 750°C, with a recommended flame application time of 90 minutes, plus 15 minutes cooling time. While the specification does not detail an acceptance criteria, aside from maintaining circuit integrity, Brand-Rex has adopted a pass criteria of no more than 1.5dB increase in attenuation under test conditions.

The BSEN 50200:2000 Class PH120 test subjects the sample cable to higher temparature (830°C), additional mechanical shock and water spray during the 'flame on' period. This enhanced requirement simulates a real life situation with fire containment systems in operation and potential impacts from falling debris.

Further demonstrating the extended fire survival performance, Brand-Rex have tested to BS8434-2. This tests the cable at a temperature of 930°C for 120minutes, inclusive of the mechanical shock and water spray from BSEN50200, proving that the UFS01 fire survival cable can meet the most stringent of tests.