

## Certificate of Product Approval

Certificate Number: 896d

Issue: 03

### Leoni Studer AG

Herrenmattstr 20  
CH 4658  
Däniken  
Switzerland



is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) detailed below:

#### Product(s)

Cable Types as listed below:  
BETAflam FR-MI 110 Cable Comms S/UTP  
See Certificate Appendix for details

#### Standard(s) (see Appendix for details)

BS 6387:2013 (C W Z)  
EN 60754-1:2014  
IEC 60754-1:2011  
EN / IEC 61034-2:2005+A1:2013  
IEC 60331-21:1999  
EN / IEC 60332-3-24:2009  
EN / IEC 60332-1-2:2004

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

*Damien Ward*

Signed for LPCB

Damien Ward  
Certification Scheme Manager

20 February 2017  
Date of Issue

30 January 2009  
Date of First issue



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## Appendix to Certificate No: 896d Leoni Studer AG

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Product name							LPCB Ref. No.
BETAflam FR-MI 110 Cable Comms S/UTP							896d/01
Nominal csa of conductor (mm <sup>2</sup> )	Core Construction (excluding drain wire)	BS 6387	EN / IEC 60754-1	EN / IEC 61034-2	IEC 60331-21 (see note 3)	EN / IEC 60332-1-2	EN / IEC 60332-3-24
0.75 <sup>(1)</sup>	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies
1.0 <sup>(1)</sup>	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies
1.5 <sup>(1)</sup>	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies
2.5 <sup>(1,2)</sup>	1 to 10 pairs	C W Z	<0.5% HCl	>60%	Complies	Complies	Complies

### Uo/U 300/500V

#### Notes:

1. Stranded conductors only.
2. EN 61034-2:2005+A1:2013 approval applies to the 2.5 mm<sup>2</sup> cable up to 7 pairs only.
3. The BETAflam FR-MI 110 Cable Comms S/UTP cables met the requirements of IEC 60331-21:1999 when tested at a temperature of 950°C for a duration of 180mins + 15mins cool down, at a voltage rating of 300/500V.

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